

ENERGY COPYLI

A CONTINUING BIBLIOGRAPHY WITH INDEXES

FEBRUARY 1976

ACCESSION NUMBER RANGES

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IAA (A-10000 Series)

A75-38854—A75-47824

STAR (N-10000 Series)

N75-28003-N75-34001

Previous publications announced in this series/subject category include:

DOCUMENT	DATE	COVERAGE
NASA SP-7042	April 1974	January 1968—December 1973
NASA SP-7043(01)	May 1974	January 1, 1974—March 31, 1974
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NASA SP-7043(03)	February 1975	July 1,1974—September 30, 1974
NASA SP-7043(04)	May 1975	October 1, 1974—December 31, 1974
NASA SP-7043(05)	August 1975	January 1, 1975—March 31, 1975
NASA SP-7043(06)	October 1975	April 1, 1975—June 30, 1975
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ENERGY

A Continuing Bibliography

With Indexes

Issue 8

A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system—and announced—from October 1 through December 31, 1975 in

- Scientific and Technical Aerospace Reports (STAR)
- International Aerospace Abstracts (IAA).



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INTRODUCTION

This issue of Energy: A Continuing Bibliography with Indexes (NASA SP-7043(08)) lists 397 reports, journal articles, and other documents announced between October 1, 1975 and December 31, 1975 in Scientific and Technical Aerospace Reports (STAR) or in International Aerospace Abstracts (IAA). The first issue of this continuing bibliography was published in May 1974 and succeeding issues are published quarterly.

The coverage includes regional, national and international energy systems; research and development on fuels and other sources of energy; energy conversion, transport, transmission, distribution and storage, with special emphasis on use of hydrogen and of solar energy. Also included are methods of locating or using new energy resources. Of special interest is energy for heating, lighting, for powering aircraft, surface vehicles, or other machinery.

Each entry in the bibliography consists of a standard bibliographic citation accompanied in most cases by an abstract. The listing of the entries is arranged in two major sections, IAA Entries and STAR Entries in that order. The citation, and abstracts when available, are reproduced exactly as they appeared originally in IAA or STAR including the original accession numbers from the respective announcement journals. This procedure, which saves time and money accounts for the slight variation in citation appearances.

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TABLE OF CONTENTS

STAR Entries		
Subject Index	·	
Personal Author In	dex	B-1
Corporate Source I	ndex	
Contract Number I	ndex	D-1
Report / Accession	Number Index	E-1
TYPICA	L CITATION AND ABSTRACT FROM	STAR
NASA SPONSORED		
ACCESSION	N75-17336 Lockheed-California Co., Burbank. STUDY OF ACTIVE COOLING FOR SUPERSONIC TRANS-PORTS Final Report	MICROFICHE
NUMBER	G. D. Brewer and R. E. Morris Feb. 1975 152 p refs (Contract NAS1-13228) (NASA-CR-132573) Avail: NTIS HC \$6.25 CSCL 01C	CORPORATE SOURCE
TITLE	The potential benefits of using the fuel heat sink of hydrogen fueled supersonic transports for cooling large portions of the aircraft wing and fuselage are examined. The heat transfer would	PUBLICATION DATE
AUTHORS —	be accomplished by using an intermediate fluid such as an ethylene glycol-water solution. Some of the advantages of the system are: (1) reduced costs by using aluminum in place of titanium,	AVAILABILITY
CONTRACT OR GRANT	(2) reduced cabin heat loads, and (3) more favorable environmental conditions for the aircraft systems. A liquid hydrogen fueled, Mach 2.7 supersonic transport aircraft design was used for the	SOURCE
REPORT	reference uncooled vehicle. The cooled sircraft designs were analyzed to determine their heat sink capability, the extent and location of feasible cooled surfaces, and the coolant passage	COSATE
NUMBER	size and spacing. Author	CODE
TVDICA	L CITATION AND ABSTRACT FROM	14.4
I T F I U A	L CITATION AND ABSTRACT FROM	IAA
DOCUMENT		AVAILABLE ON MICROFICHE
	A75-24957 * # Effect of attitude constraints on solar electric geocentric transfers_L. L. Sackett and T. N. Edelbaum (Charles Stark -	
	Draper Laboratory, Inc., Cambridge, Mass.). American Institute of	11102
ACCESSION	Aeronautics and Astronautics, Electric Propulsion Conference, 11th, New Orleans, La., Mar. 19-21, 1975, Paper 75-350. 12 p. 10 refs.	AUTHORS
NUMBER	Contract No. NAS3-18886.	AFFILIATION
AUTHORS	The present work assesses the increase in flight time and fuel consumption due to introducing attitude constraints on both the	TITLE OF
	thrust vector and the plane of the solar cell arrays on geocentrically orbiting spececraft. A modified version of the SECKSPOT computer	PERIODICAL
	program calculates nearly time-optimal trajectories for the con-	
	strained case of zero pitch and roll. Unconstrained cases are generated with the SECKSPOT code. It is concluded that with a	PUBLICATION
	pitch constraint but without a roll constraint, power would not be a	DATE
	function of thrust direction, and so the time-optimal thruster	

direction would be along the projection of the primer vector in the plane normal to the radius vector. The roll constraint would cause power to become a function of thrust angle and sun angle. For certain sun angles the locus of the ratio of power to maximum power is concave and thus there may be jumps in the control angle. Comparisons are made for a SERT-C type mission between constrained and unconstrained cases in an inverse square gravity field.

S.J.M.

A Listing of Energy Bibliographies Contained in This Publication:

1. Energy conversion

N75-31580 p0208

FEBRUARY 1976

IAA ENTRIES

A75-38863 Can hydrogen transmission replace electricity. P. J. Hampson, A. B. Hart, B. Jones (Central Electricity Generating Board, Research Laboratories, Leatherhead, Surrey, England), D. T. Swift-Hook (Central Electricity Generating Board, Marchwood Engineering Laboratories, Southampton, England), J. J. Syrett, and J. K. Wright (Central Electricity Generating Board, London, England). CEGB Research, May 1975, p. 4-11.

A careful consideration of the nationwide use of hydrogen created with nuclear power is given, and it is concluded that such use does not appear competitive with the use of nuclear electricity at this time. Savings would only accrue in the area of transmission and distribution costs, and even then only if the system were used over very large distances. Thermochemical methods of generating hydrogen directly from reactor heat have not yet been successful, and therefore electrolysis would have to be the means of producing the gas; thus production would not cost less than production of electricity. Possible interest may be expressed in the aviation and chemical industrial fields, however, as fossil fuel prices continue to rise.

A75-38864 Storing electrical energy on a large scale, G. C. Gardner, A. B. Hart (Central Electricity Generating Board, Research Laboratories, Leatherhead, Surrey, England), R. D. Moffitt (Central Electricity Generating Board, Marchwood Engineering Laboratories, Southampton, England), and J. K. Wright (Central Electricity Generating Board, London, England). CEGB Research, May 1975, p. 12-20.

Various means of storing the surplus energy to be produced by nuclear power plants later this century are reviewed. Pumped-water storage, compressed-air storage, superconducting magnetic storage, flywheel storage, battery storage, electrolysis storage, and heat storage are discussed. It is shown that there are definite economic advantages to be gained from large-scale storage systems, in their enabling nuclear power plants to be run more continuously at a uniform level. This advantage will increase as the proportion of nuclear-generated energy increases. The most long-term economically appealing of the above storage systems are electrochemical, compressed-air, and heat storage.

A75-38865 The potential of natural energy sources. J. D. Denton, R. Glanville, B. J. Gliddon, R. C. Hotchkiss, E. M. Hughes, D. T. Swift-Hook (Central Electricity Generating Board, Marchwood Engineering Laboratories, Southampton, England), P. L. Harrison (Central Electricity Generating Board, Research Laboratories, Leatherhead, Surrey, England), and J. K. Wright (Central Electricity Generating Board, London, England). CEGB Research, May 1975, p. 28-40.

The general technology and application potential of solar power, wind power, wave power, tidal power, and geothermal power in the U.K. are evaluated. Emphasis is on wave power, since this energy source seems to be the most practical for the country. Cost is the prohibitive factor in the solar area, except for solar domestic water heating, which appears quite feasible. Wind power presents difficulties in the economic and load factor realms. Two two-basin tidal systems for use in the Bristol Channel are considered, but their

prohibitive construction costs, variability from neap to spring tides and variability in times of high and low tides, and detrimental environmental effects tend to bar its application. Geothermal gradients in Britain are generally too low for practical, efficient power generation.

S.J.M.

A75-38868 # Airborne windmills - Energy source for communication aerostats. M. S. Manalis (California, University, Santa Barbara, Calif.). American Institute of Aeronautics and Astronautics, Lighter Than Air Technology Conference, Snowmass, Colo., July 15-17, 1975, Paper 75-923. 19 p. 12 refs.

Practical systems are described which will enable the placing of an aerogenerator on communication aerostats. These tethered aerostats are high-altitude platforms for wide-area telecommunication and broadcast functions. The purpose of this effort is to investigate the use of airborne windmills to increase the operational availability of the aerostat system. Preliminary calculations indicate that useful amounts of power could be generated economically without increasing the weight of the aerostat and without appreciably changing its angular position. (Author)

A75-38956 Thick semiconductor films for photothermal solar energy conversion. R. E. Hahn and B. O. Seraphin (Arizona, University, Tucson, Ariz.). (American Vacuum Society, Conference on Structure/Property Relationships in Thick Films and Bulk Coatings, 2nd, San Francisco, Calif., Feb. 10-12, 1975.) Journal of Vacuum Science and Technology, vol. 12, July-Aug. 1975, p. 905-908, 12 refs. NSF Grant No. GI-36731X.

Efficient and economical photothermal conversion of solar energy requires the use of spectrally selective surfaces for collection and retention of incident solar flux. This spectral selectivity can be obtained from an absorber-reflector tandem by overcoating an opaque metal film having high infrared reflectance with a thick film of semiconductor having an appropriate band gap. The practical implementation of this design using films of silver and silicon on a variety of substrate materials is described. The spectral reflectance of coated samples has been measured at temperatures up to 500 C. The solar absorptance increases with temperature, while the thermal emittance typically increases by 2%-4% at 500 C. (Author)

A75-38958 Polycrystalline silicon layers for solar cells. T. L. Chu (Southern Methodist University, Dallas, Tex.). (American Vacuum Society, Conference on Structure/Property Relationships in Thick Films and Bulk Coatings, 2nd, San Francisco, Calif., Feb. 10-12, 1975.) Journal of Vacuum Science and Technology, vol. 12, July-Aug. 1975, p. 912-915. 16 refs. NSF Grant No. GI-38981.

The substrate requirements for silicon deposition and the techniques for chemical-vapor deposition of silicon films are reviewed. In particular, the technique for the deposition of silicon layers by thermal decomposition of silane is described. The techniques used in assessing the structural properties, the dopant concentration and distibution, and the thickness uniformity of the deposited silicon layer are examined. The deposition of polycrystalline silicon layers containing a shallow p-n junction on steel, graphite, and metallurgical-grade silicon substrates is discussed. Silicon deposited on metallurgical-grade silicon is found to be epitaxial with respect to the substrate, with conversion efficiencies up to 2.5%.

A75-39018 # The fuel scene and its impact on the economics of airline operations. R. H. Whitby (British Airways, London, England) and E. J. Pope. In: Anglo-American Aeronautical Con-

ference, 14th, Los Angeles, Calif., August 4-7, 1975, Technical Papers. New York, American Institute of Aeronautics and Astronautics, Inc., 1975. 8 p.

The paper discusses the development and consequences of recent increases in the price of fuel and shows how they may influence airline planning and aircraft design. The airlines' short-term methods of dealing with price increases are discussed. Possible changes in aircraft design are noted, with particular reference to the competitive effect of limiting cruise speed. The use of the more exotic fuels is unlikely, at least for civil aviation.

A75-39132 # Hydrazine as a fuel for a fuel cell (L'hydrazine en tant que combustible de pile à combustible). B. Verger and N. Chillier Duchatel (Société Générale de Constructions Electriques et Mécaniques ALSTHOM, Paris, France). In: Properties of hydrazine and its applications as an energy source; International Conference, Poitiers, France, October 22-25, 1974, Proceedings.

Paris, Centre National d'Etudes Spatiales, 1974, p. 233-243. In French.

A new design for a hydrazine-hydrogen peroxide battery is described. Because of its strong reducing ability, hydrazine is an excellent reactant for high-performance electrochemical cells. By using certain catalysts of varying composition, the production of ammonia and hydrogen (parasitic reactions) can be minimized. Each element of the modular cell consists of a flat-sheet-shaped container, the sides of which are wave-shaped, filled with electrolyte plus reductant and electrolyte plus oxidant, which are separated from each other by a semipermeable membrane; the container is bounded on the inside by a catalyst and on the outside by an electrode on each side.

S.J.M.

A75-39134 # Hydrazine gas generation for pressure gas feed systems. J. Schaper (ERNO Raumfahrttechnik GmbH, Bremen, West Germany). In: Properties of hydrazine and its applications as an energy source; International Conference, Poitiers, France, October 22-25, 1974, Proceedings. Paris, Centre National d'Etudes Spatiales, 1974, p. 267-279.

The use of hydrazine technology in pressure gas feed systems for flight vehicles is examined. Pressure gas feeding with and without medium separation is discussed. In the first case, a pressure gas feed system operating on a hydrazine basis consists of a pressure gas tank with a reducing valve for pressurization of the hydrazine tank; the gas generation unit is placed downstream of the tank. In the second case, possible reactions between propellant and hydrazine decomposition gases are discussed. As compared to a conventional pressure gas system, hydrazine technology ensures a design of less volume and weight, which is of paramount importance in spacecraft engineering.

A75-39196 An overview of solar energy applications. P. E. Glaser (Arthur D. Little, Inc., Cambridge, Mass.). In: NEREM 74; Northeast Electronics Research and Engineering Meeting, Boston, Mass., October 28-31, 1974, Record. Part 1.

Newton, Mass., Institute of Electrical and Electronics Engineers, Inc., 1974, p. 45-50.

The paper reviews briefly some of the main approaches under study and development for harnessing the sun's energy. This includes solar heating and cooling systems, renewable gas and oil fuels, solar heat engine power plants, wind energy, ocean thermal gradients, direct energy conversion using solar cells, and solar energy conversion in space for use on earth. It is pointed out that although a solar heating and cooling system is still more expensive to install than a fossil fuel system, the total costs during the operational life of the two systems are expected to be comparable in view of the spiralling prices of fossil fuels.

P.T.H.

A75-39197 MHD power generation. R. J. Rosa (Avco Everett Research Laboratory, Inc., Everett, Mass.). In: NEREM 74; Northeast Electronics Research and Engineering Meeting, Boston,

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Mass., October 28-31, 1974, Record. Part 1. Newton, Mass., Institute of Electrical and Electronics Engineers, Inc., 1974, p. 51-53.

The basic principles of MHD power generation are briefly reviewed and the prospects for development of MHD power plants on a commercial basis are examined. While basic technical questions appear to have been resolved, the prooftesting and accumulation of large-scale engineering experience required for developing a MHD plant has only begun in the U.S.A. To move MHD power generation through the pilot and demonstration stages, broad-based support by government and industry is required.

P.T.H.

A75-39198 Batteries and fuel cells in the electrical generating industry. J. H. B. George (Arthur D. Little, Inc., Cambridge, Mass.). In: NEREM 74; Northeast Electronics Research and Engineering Meeting, Boston, Mass., October 28-31, 1974, Record. Part 1. Newton, Mass., Institute of Electrical and Electronics Engineers, Inc., 1974, p. 57-59.

The paper shows that batteries and fuel cells have quite significant prospects of becoming integral components of the electrical utility generating system within the next one or two decades. The most prospective use of batteries is in load-leveling systems, to store electrical power generated during off-peak periods, and feed it back into the utility network during periods of above-average demand. The fuel cell will be used for both decentralized generation and load levelling.

P.T.H.

A75-39333 Lasers for fusion. M. McGeogh (Imperial College of Science and Technology, London, England). *New Scientist*, vol. 67, July 24, 1975, p. 205-207.

The search for the 'Brand-X' laser for better fusion is reviewed. The requirement is for a gas laser of at least 10% efficiency easily scaled up to energies of about 10 kilojoules, and operating at a wavelength of about 0.4 micrometers. An increase in the efficiency will reduce the cost of such a laser. In order to have good energy storage, a transition with a small corss-section of between 10 to the minus 19th power and 10 to the minus 20th power sq cm should be chosen. The class of quasimolecular system (based on xenon, krypton and argon) offer advantages for energy storage in their low cross-section for stimulated emission. Other lasers discussed included iodine laser, neodymium laser and the carbon dioxide laser. M.G.

A75-39335 • Trace elements by instrumental neutron activation analysis for pollution monitoring. D. W. Sheibley (NASA, Lewis Research Center, Cleveland, Ohio). In: Trace elements in fuel. Research sponsored by the American Chemical Society. Washington, D.C., American Chemical Society (Advances in Chemistry Series, No. 141), 1975, p. 98-117. 11 refs.

Methods and technology were developed to analyze 1000 samples/yr of coal and other pollution-related samples. The complete trace element analysis of 20-24 samples/wk averaged 3-3.5 manhours/sample. The computerized data reduction scheme could identify and report data on as many as 56 elements. In addition to coal, samples of fly ash, bottom ash, crude oil, fuel oil, residual oil, gasoline, jet fuel, kerosene, filtered air particulates, ore, stack scrubber water, clam tissue, crab shells, river sediment and water, and corn were analyzed. Precision of the method was plus or minus 25% based on all elements reported in coal and other sample matrices. Overall accuracy was estimated at 50%. (Author)

A75-39349 # Available energy conversion and utilization in the United States. G. M. Reistad (Oregon State University, Corvallis, Ore.). (American Society of Mechanical Engineers, Winter Annual Meeting, New York, N.Y., Nov. 17-21, 1974, Paper 74-WA/Pwr-1.) ASME, Transactions, Series A - Journal of Engineering for Power, vol. 97, July 1975, p. 429-434. 30 refs.

The effectiveness (basic thermodynamic performance) of various energy-consuming systems and sectors of society is examined, based on 1970 consumption data. Effectiveness is distinguished from

efficiency, which is not a valid comparative measure. Effectiveness takes into account the internal irreversibility losses of a system, and is based on availability; efficiency is based on energy. Energy effectiveness for the utility, residential, transportation, and industrial sectors is investigated.

S.J.M.

A75-39365 # Generation of power from the wind. E. W. Hewson (Oregon State University, Corvallis, Ore.). American Meteorological Society, Bulletin, vol. 56, July 1975, p. 660-675. 24 refs.

There is vast energy available in the earth's winds for man's use. It is conservatively estimated that the wind power available to man is the equivalent of the output of 1000 typical fossil fueled or nuclear power plants of 1000 megawatts (MW) capacity each. By contrast, the water power potential of the earth is only one-tenth as large. Large wind generators have been built and used during the past 50 years. Research on wind power sites in the mountainous coastal and valley areas of the Pacific Northwest is being conducted. Terrain modification, aerogenerator 'farms', special duty installations, environmental impacts, land use, and net energy costs are all taken into consideration. It is concluded that wind power shows promise of supplying substantial amounts of supplementary electrical energy and that the development of this wind power potential should proceed with the federal government taking a lead role. (Author)

A75-39403 Photogalvanic cells. W. D. K. Clark and J. A. Eckert (Exxon Research and Engineering Co., Linden, N.J.). (International Solar Energy Society, Annual Meeting, Fort Collins, Colo., Aug. 21-23, 1974.) Solar Energy, vol. 17, July 1975, p. 147-150. 10 refs. NSF-supported research.

The theory for photogalvanic cells is presented showing that they are electrochemical cells which are recharged with light. A description of a photogalvanic cell based on the iron-thionine system is given in which the power conversion efficiency for absorbed monochromatic light is 1.5 per cent. (Author)

A75-39405 Semi-transparent solar collector window systems. N. Fuschillo. *Solar Energy*, vol. 17, July 1975, p. 159-165. 29 refs.

A new window system is proposed which acts as an efficient solar energy collector by absorption of as much of the solar heat as possible with a 20 per cent light transmission. The arrangement is such that winter sunlight heating and summer sunlight cooling are performed by convective flow, whereas on dull warm or cold days or nights the window system is converted into a thermally insulated thermopane window economical in fuel for both artificial heating and cooling. Permanent and retractable systems are described. It is shown that retractable systems have lower cost and life-time but are more flexible in performance, and that a variety of practical solar absorber and reflector coatings exists which allow implementation of semi-transparent solar collector systems giving a 75 per cent utilization of the total solar energy for space heating or ventilation.

A75-39406 Year round performance studies on a built-in storage type solar water heater at Jodhpur, India. H. P. Garg (Central Arid Zone Research Institute, Jodhpur, India). Solar Energy, vol. 17, July 1975, p. 167-172. 17 refs.

An improved solar water heater (capacity 901) made up of a 112 x 80 x 10 cm rectangular tank which performs the dual function of absorbing heat and storing the heated water has been designed and a prototype tested in Jodhpur. The performance tests carried out at the Central Arid Zone Research Institute, Jodhpur, indicate an efficiency factor reaching as high as 70 per cent. The year-round performance tests show that this heater can supply 901 of water at a mean temperature of 50 to 60 C in winter and 60 to 75 C in summer (measured at 4:00 p.m.). The performance tests also indicate that sufficient hot water can be obtained in the early morning if the heater is covered with an insulation blanket overnight or if the hot water is stored in an insulated tank. A performance equation for this type of heater, where the inputs are the solar intensity, ambient air temperature and geometry and material specifications of the heater,

has also been developed. With this performance equation the optimum gap depth, i.e. the distance between upper and lower plate of the heater, has been found to be 10.0 cm. (Author)

A75-39407 Radiation cooling of structures with infrared transparent wind screens. T. E. Johnson (MIT, Cambridge, Mass.). Solar Energy, vol. 17, July 1975, p. 173-178. 9 refs. NSF Grant No. GI-41306

Energy conserving radiation cooling schemes for dwellings in high humidity climates have usually failed due to the deleterious effect of the wind. In this paper the cooling mechanisms at work in wind conditions are examined. A radiator system using an i.r. transparent wind screen that doubles as the structural envelope is proposed and supporting experimental results are presented. A one family dwelling built with these radiation panels can carry 50 per cent of the 24 hr cooling load. Worst case conditions give radiator coefficients of performance twice that of existing appliances.

(Author)

A75-39409 Cooling with the sun's heat - Design considerations and test data for a Rankine Cycle prototype. D. Prigmore and R. Barber (Barber-Nichols Engineering Co., Denver, Colo.). Solar Energy, vol. 17, July 1975, p. 185-192.

The development of a demonstration package supplying residential cooling and/or electricity via a solar-heated Rankine Cycle is discussed. The 3-ton air conditioning, 1-kW electric system employs a solar collector to warm flowing water which provides input heat to a low temperature organic (R-113) Rankine Cycle, Expansion through a high speed (approximately 50,000 rpm) turbine-speed reducer drives an available R-12 refrigeration compressor and 3600 rpm motor-generator. The design point solar collector water temperature is 215 F, providing an R-113 temperature at the turbine inlet of 200 F. With a water-cooled R-113 condenser purveying a condensing temperature of 95 F and a turbine efficiency design goal of 80%, Rankine Cycle efficiency (turbine shaft power divided by heat input to the working fluid) is 11.5%. An 85% efficient R-12 compressor yields an overall coefficient of performance (COP) goal of 0.71. The project is jointly funded by Honeywell, Inc., and the National Science Foundation (Author)

A75-39410 Solar absorption air conditioning alternatives. P. J. Wilbur and C. E. Mitchell (Colorado State University, Fort Collins, Colo.). Solar Energy, vol. 17, July 1975, p. 193-199. 8 refs. NSF-supported research.

The relative advantages of a single-stage, lithium bromide-water absorption air conditioner heated from a flat-plate solar collector are compared theoretically to those for an ammonia-water system, and the lithium bromide system is selected as the preferred one. Double-stage absorption systems with their improved performance are described and are shown theoretically to require generator temperatures that are too great to make them attractive for use with flat-plate collectors. Dual, series-connected systems which require no cooling tower for heat rejection are shown by analysis to have a low coefficient of performance. System utilizing refrigerant storage and a heat rejection buffer between a cooling tower and the absorber and condenser are discussed along with the computer simulation describing them. They are shown to require smaller cooling towers than conventional units. Operation with an air heat exchanger rather than the cooling tower in such a system is shown to yield acceptable system performance with a small reduction in the fraction of the cooling load which can be met with solar energy. (Author)

A75-39412 Effect of diffusion on concentration profiles in a solar pond. N. Chepurniy and S. B. Savage (McGill University, Montreal, Canada). Solar Energy, vol. 17, July 1975, p. 203-205. 11 refs.

The evolution of density gradients with time in salt-containing solar ponds from initial stepwise (discontinuous) state to asymptotic uniform state is mathematically investigated. Various numbers of initial gradiated salt solution layers are considered. The time for the

top surface of the pond to reach one-half the concentration at mid-level increases with decreasing number of initial layers and with increasing pond depth.

S.J.M.

A75-39925 The economics of coal-based synthetic gas. O. Hammond and M. B. Zimmerman (MIT, Cambridge, Mass.). *Technology Review*, vol. 77, July-Aug. 1975, p. 42-51. 6 refs.

An attempt is made to show that for space heating applications at least one alternative, the heat pump, will have a lower real cost than the gasification of coal. The physical and chemical characteristics of coal are considered along with the thermodynamics of coal gasification and the cost of coal-based synthetics. An evaluation of high-B.t.u. gasification is conducted, taking into account the synthetic gas and the utilization techniques. It is concluded that present gasification technologies already at the development stage offer little promise.

G.R.

A75-40176 Energy - Engineering - Environment; Proceedings of the Seventh Annual Frontiers of Power Technology Conference, Stillwater, Okla., October 9, 10, 1974. Conference sponsored by the Oklahoma State University. Stillwater, Oklahoma State University, 1975. 374 p. \$10.00.

Various topics concerning waste utilization and disposal, new concepts in electric energy generation and storage, nuclear energy conversion, and fuel resources technology are discussed. Papers presented include gaseous fuel nuclear reactor research, high-level radioactive waste management, effects of external fouling on dry cooling tower performance, economics of solar and wind energy systems for large-scale power generation, thermodynamic considerations in the use of gasified coal as a fuel for power conversion systems, and shale from oil shale economically.

S.J.M.

A75-40177 * # Gaseous fuel nuclear reactor research. F. C. Schwenk and K. Thom (NASA, Washington, D.C.). In: Energy Engineering Environment; Proceedings of the Seventh Annual Frontiers of Power Technology Conference, Stillwater, Okla., October 9, 10, 1974. Stillwater, Oklahoma State University, 1975, p. 3-1 to 3-36. 33 refs.

Gaseous-fuel nuclear reactors are described; their distinguishing feature is the use of fissile fuels in a gaseous or plasma state, thereby breaking the barrier of temperature imposed by solid-fuel elements. This property creates a reactor heat source that may be able to heat the propellant of a rocket engine to 10,000 or 20,000 K. At this temperature level, gas-core reactors would provide the breakthrough in propulsion needed to open the entire solar system to manned and unmanned spacecraft. The possibility of fuel recycling makes possible efficiencies of up to 65% and nuclear safety at reduced cost, as well as high-thrust propulsion capabilities with specific impulse up to 5000 sec.

S.J.M.

A75-40179 # Prospects for electrolytic hydrogen for chemical/industrial plants. L. J. Nuttall (General Electric Co., Lynn, Mass.). In: Energy - Engineering - Environment; Proceedings of the Seventh Annual Frontiers of Power Technology Conference, Stillwater, Okla., October 9, 10, 1974. Stillwater, Oklahoma State University, 1975, p. 13-1 to 13-22.

Characteristics of the solid polymer electrolyte water electrolysis cell and the general economics of electrolytically obtained hydrogen are discussed. Advantages of the new design over the conventional liquid KOH electrolyte include long life, operation at high (exceeding 2000 amps/sq ft) current densities, high efficiency, lack of performance degradation with time, ability to withstand high differential pressures, and impossibility of electrolyte carryover into the generated gases. Near-term viability is expected in many chemical and industrial applications, with technology potential becoming competitive for the rest of society over a longer period.

A75-40181 # The utilization of ocean energy for electrical energy generation. S. A. Sebo (Ohio State University, Columbus, Ohio). In: - Energy - Engineering - Environment; Proceedings of the Seventh Annual Frontiers of Power Technology Conference, Stillwater, Okla., October 9, 10, 1974. Stillwater, Oklahoma State University, 1975, p. 15-1 to 15-22. 21 refs. Research supported by the Westinghouse Educational Foundation.

Factors involved in the implementation of wave energy converters, ocean current energy converters, tidal energy converters, and ocean thermal energy converters are discussed. Emphasis is on tidal and solar (thermal) technologies, since these technologies are the closest of the above to realization. In addition, brief comments are made on the use of sea water as a raw material (i.e., a source of thorium and uranium for atomic fission, as well as a source of hydrogen and deuterium for atomic fusion).

S.J.M.

A75-40182 # Shale from oil shale economically. H. E. McCarthy (Garrett Research and Development Co., Inc., Los Angeles, Calif.). In: Energy - Engineering - Environment; Proceedings of the Seventh Annual Frontiers of Power Technology Conference, Stillwater, Oklahoma State University, 1975, p. 16-1 to 16-16.

A new in situ processing concept for the production of shale oil from oil shale is described. In this plan, known as the Garrett process, a rubble pile is formed under the ground by mining into the area under the oil shale or in the oil shale; then a combustion procedure is begun at the top of the pile and retorting is initiated. Air is forced down through the top and is circulated back up to the top. The recycled gas and air are mixed to control the amount of oxygen, which in turn controls the maximum temperature achieved. Oil is then produced at one level, condensed and drained out at the bottom.

A75-40297 Solar climate control - Evaluating the commercial possibilities. P. E. Glaser (Arthur D. Little, Inc., Cambridge, Mass.). ASTM Standardization News, vol. 3, Aug. 1975, p. 8-12.

A general review of the feasibility of domestic solar water and space heating systems is presented. Cost considerations, commercial considerations, the solar climate control market, the emergence of a solar climate control industry, and the federal role are evaluated. It is concluded that nurtured development of the solar energy industry at a steady rate will have advantageous repercussions on the international as well as national environmental, economic, and cultural levels.

S.J.M.

A75-40298 Solar energy powered systems - History and current status. R. C. Jordan (Minnesota, University, Minneapolis, Minn.). ASTM Standardization News, vol. 3, Aug. 1975, p. 13-18, 46, 47, 13 refs.

A general review of the development of solar energy technology and a description of its current aspects is presented. Early attempts at solar energy conversion were concerned with direct production of mechanical power, in competition of with that obtained from fossil fuels; present technology deals most effectively with low-temperature heating of liquids and gases. Photovoltaic and thermal system principles are explained; emphasis is on hybrid distributed-heliostatic systems supplemented by conventional power sources.

S.J.M.

A75-40299 Laboratory based activities in solar energy at the National Bureau of Standards. J. E. Hill (National Bureau of Standards, Center for Building Technology, Boulder, Colo.). ASTM Standardization News, vol. 3, Aug. 1975, p. 20, 21, 24-28. 28 refs. ERDA-supported research.

A75-40300 Evaluation of focusing solar energy collectors. F. Kreith (Colorado, University, Boulder, Colo.). ASTM Standardization News, vol. 3, Aug. 1975, p. 30-38. 31 refs.

An introductory presentation is made concerning means of evaluating the performance of focusing solar energy collectors, with

emphasis on common features among different focusing collectors. Term definitions, the advantages of focusing collectors over flat-plate collectors methods of concentration, an illustrative example, and an economic evaluation criterion are discussed. It is concluded that the key information necessary to evaluate a collector is its efficiency, defined as the ratio of the useful energy delivered at the working fluid to the total solar radiant energy incident on the aperture.

S.J.M.

A75-40502 * Design of short haul aircraft for fuel conservation. M. K. Bowden, H. S. Sweet (Lockheed-Georgia Co., Marietta, Ga.), and M. H. Waters (NASA, Ames Research Center, Moffett Field, Calif.). Society of Automotive Engineers, Air Transportation Meeting, Hartford, Conn., May 6-8, 1975, Paper 750587. 16 p. 6 refs.

Current jet fuel prices of twice the 1972 level have significantly changed the characteristics of airplane design for best economy. The results of a contract with the NASA Ames Advanced Concepts and Missions Division confirmed the economic desirability of lower design cruise speeds and higher aspect-ratio wings compared to designs developed in the by-gone era of low fuel price. Evaluation of potential fuel conservation for short-haul aircraft showed that an interaction of airfoil technology and desirable engine characteristics is important: the supercritical airfoil permits higher aspect ratio wings with lower sweep; these, in turn, lower the cruise thrust requirements so that engines with higher bypass ratios are better matched in terms of lapse rate; lower cruise speeds (which are also better for fuel and operating cost economy) push the desired bypass ratio up further. Thus, if fuel prices remain high, or rise further, striking reductions in community noise level can be achieved as a fallout in development of a 1980s airplane and engine. Analyses are presented of developmental trends in the design of short-haul aircraft with lower cruise speeds and higher aspect-ratio wings, and the effects on fuel consumption of design field length, powered lift concepts, and turboprop as well as turbofan propulsion are discussed.

A75-40521 Future hydrogen fueled commercial transports. A. J. K. Carline (General Dynamics Corp., St. Louis, Mo.). Society of Automotive Engineers, Air Transportation Meeting, Hartford, Conn., May 6-8, 1975, Paper 750615.

An examination is conducted of the problems inherent in the design of future subsonic liquid hydrogen fueled transports. Attention is also given to the economic aspects of subsonic commercial transports which use liquid hydrogen as fuel. It is found that such transports are very competitive with equivalent jet fueled aircraft. It is pointed out that all economical data are very dependent on the relative price of liquid hydrogen and jet fuel.

G.R.

A75-40614 The Florida Solar Energy Center. W. B. Phillips (Florida State University, Tallahassee; Florida Solar Energy Center, Port Canaveral, Fla.). In: Technology today for tomorrow; Proceedings of the Twelfth Space Congress, Cocoa Beach, Fla., April 9-11, 1975.

Cocoa Beach, Fla., Canaveral Council of Technical Societies, 1975, p. 5-1 to 5-4.

The Florida Solar Energy Center is designed to serve as a central facility for solar energy activities of the state's nine public universities, as well as private institutions which choose to participate. Activities of the Center will include research, development, information dissemination, and demonstration projects. The Center will include Divisions of Research, Development, Tests and Standards, Education, Information, and Technical Assistance. The site consists of 20 acres on the water at Port Canaveral and adjacent to the Kennedy Space Center. Four existing buildings including an auditorium, laboratories, offices, a library, TV studios, and classrooms will be used for the initial operations of the Center. (Author)

A75-40617 * Energy survey - What can R&D do by 1985. S. L. Copps (NASA, Office of Energy Programs, Systems Analysis Div.,

Washington, D.C.). In: Technology today for tomorrow; Proceedings of the Twelfth Space Congress, Cocoa Beach, Fla., April 9-11, 1975.

Cocoa Beach, Fla., Canaveral Council of Technical Societies, 1975, p. 5-19 to 5-27.

Research and development in the field of energy is generally recognized as requiring long lead times before the results are felt. Near term relief from foreign oil dependence will be achieved by reducing energy consumption through conservation and by increasing domestic energy supply through expanded exploration and drilling for oil and natural gas, and by increased coal production. This paper describes the results of an informal survey performed by NASA within its own agency to determine if any research and development activities might be an exception to the general rule of long lead times and thus have significant impact by 1985 on oil and natural gas consumption. (Author)

A75-40618 Data monitoring and information availability A key to solar energy utilization. A. J. Kemp (IBM Corp., Huntsville, Ala.). In: Technology today for tomorrow; Proceedings of the Twelfth Space Congress, Cocoa Beach, Fla., April 9-11, 1975.

Cocoa Beach, Fla., Canaveral Council of Technology

nical Societies, 1975, p. 5-29 to 5-36. NASA-supported research.

Widespread use of solar energy heating and cooling systems is dependent upon their price competitiveness with other systems in the marketplace. There are indications that the degree of accuracy of existing solar-insolation data is such that systems must be oversized by 50 percent. Refinement of the solar insolation data could result in a substantial cost reduction of solar heating and cooling systems making these units more competitive with conventional systems. This paper describes a system, the Sunfall Monitor, that provides this capability. The system monitors and records on tape in computer-compatible format the values of the direct and total solar cirradiance. Provisions are also incorporated for evaluation of solar cill, collector and absorber material samples. Concepts and discussions for application of the device in relationship to research/development and the solar energy heating and cooling acts conclude the paper. (Author)

A75-40688 Generation schemes for wind power plants. T. S. Jaya Devaiah (Wisconsin, University, Milwaukee, Wis.) and R. T. Smith (Southwest Research Institute, San Antonio, Tex.). IEEE Transactions on Aerospace and Electronic Systems, vol. AES-11, July 1975, p. 543-550. 14 refs. NSF-supported research.

This paper reviews various electric generation schemes for wind energy conversion suitable for interconnection with a power grid. The schemes can be generally classified as constant speed constant frequency (CSCF) and variable speed constant frequency (VSCF) systems. Historically, only CSCF systems have been used for large power generation in wind power plants. However, with the advent of power electronics and the availability of solid state devices capable of handling large amounts of power, VSCF systems are becoming competitive. Various schemes under each classification are discussed and compared. It is stressed, however, that the optimum choice of the generating scheme is not decided by considering the generator alone. The optimum choice is one which minimizes the cost of energy generated by the wind power plant. (Author)

A75-41072 # Statistical relation between heat transfer from a closed area and meteorological parameters during the use of a solar refrigerating plant (Statisticheskaia sviaz' mezhdu teplootvodom iz pomeshcheniia i meteorologicheskimi vekichinami pri ispol'zovanii solnechnoi kholodil'noi ustanovki). A. Rakhmanov, A. Kakabaev, M. Goshdzhanov (Akademiia Nauk Turkmenskoi SSR, Fiziko-Tekhnicheskii Institut, Ashkhabad, Turkmen SSR), and M. Golaev. Akademiia Nauk Turkmenskoi SSR, Izvestiia, Seriia Fiziko-Tekhnicheskikh, Khimicheskikh i Geologicheskikh Nauk, no. 2, 1975, p. 27-31. 5 refs. In Russian.

A75-41125 Efficient use of energy. *Physics Today*, vol. 28, Aug. 1975, p. 23-27, 29, 32, 33. 17 refs.

A brief summary is given of a recent report on the contributions

physics can make to improving the efficiency of present-day energy-consuming devices. The discussion concentrates on the technical aspects of energy use. Three categories of end-use are examined: the house, the automobile, and industrial processes based on chemical and physical changes of state.

S.J.M.

A75-41178 # Cooling a light industrial building in Puerto Rico using solar energy. H.-C. Yu and R. P. Hankins, Jr. (Hankins and Anderson, Inc., Richmond, Va.). American Institute of Aeronautics and Astronautics and American Astronautical Society, Solar Energy for Earth Conference, Los Angeles, Calif., Apr. 21-24, 1975, AIAA Paper 75-612. 24 p.

A75-41425 A resonant point absorber of ocean-wave power. K. Budar and J. Falnes (Norges Tekniske Hogskole, Trondheim, Norway). *Nature*, vol. 256, Aug. 7, 1975, p. 478, 479. 5 refs.

A system for absorbing and utilizing the energy carried by ocean waves is discussed. The 'point absorber' considered is a system in which the horizontal extent is much smaller than one wavelength. The point absorber is optimized for efficient energy conversion. The resonant characteristic frequency of the system is at all times tuned to the characteristic frequency of the wave.

G.R.

A75-41433 Fusion power by magnetic confinement - Plans and the associated need for nuclear engineers. R. L. Hirsch and D. S. Beard (ERDA, Div. of Controlled Thermonuclear Research, Washington, D.C.). Nuclear Technology, vol. 27, Sept. 1975, p. 84-91. 8 refs.

A75-41434 Environmental aspects of fusion reactors. F. E. Coffman and J. M. Williams (ERDA, Div. of Controlled Thermonuclear Research, Washington, D.C.). Nuclear Technology, vol. 27, Sept. 1975, p. 174-181. 12 refs.

Potential environmental impacts of commercial fusion reactors are discussed and compared with those of fission reactors. It is shown that the environmental impact of fusion reactors will be quite small, with the main contribution coming from thermal discharges. Some attractive safety and environmental characteristics of fusion reactors are described, including an effectively infinite low-cost fuel supply, their inherent incapacity for nuclear runaways, the absence of fission products, flexibility in selecting structural materials, and the absence of special fuels such as U-235 and Pu-239 which could be diverted for purposes of nuclear blackmail.

A75-41530 Determination of some thermophysical properties of pebble-type solar heat accumulators. G. Ia. Umarov, R. R. Avezov, S. O. Khatamov, and M. Sharipova (Akademiia Nauk Uzbekskoi SSR, Fiziko-Tekhnicheskii Institut, Tashkent, Uzbek SSR). (Geliotekhnika, no. 1, 1975, p. 38-41.) Applied Solar Energy, vol. 11, no. 1-2, 1975, p. 29-31. 7 refs. Translation.

A75-41533 Comprehensive utilization of a solar installation. R. B. Salieva (Tashkentskii Institut Sviazi, Tashkent, Uzbek SSR). (Geliotekhnika, no. 1, 1975, p. 65-71.) Applied Solar Energy, vol. 11, no. 1-2, 1975, p. 50-54. Translation.

The present work proposes a method for complex utilization of a solar power plant in pasture regions where underground springs are the only water source. The plant operates alternately in furnishing power to well pumps and in replenishing its storage cells. Algorithms for optimal control of the plant are given.

P.T.H.

A75-41534 Use of solar heat pumps for heating and air conditioning - A brief survey. O. L. Shvaleva, R. A. Zakhidov, and R. R. Avezov (Akademiia Nauk Uzbekskoi SSR, Fiziko-Tekhnicheskii Institut, Tashkent, Uzbek SSR). (Geliotekhnika, no. 1, 1975, p. 72-79.) Applied Solar Energy, vol. 11, no. 1-2, 1975, p. 55-60. 31 refs. Translation.

The present work discusses the use of heat pumps of different types for alternate heating of rooms and water during winter and cooling during summer. The main characteristics of some commercial, industrial, and scientific heat pumps available are summarized. The use of heat pumps in conjunction with hot-box type solar power plants is discussed briefly.

P.T.H.

A75-41538 Operation of photoconverters under conditions of strong illumination. A. M. Vasil'ev, V. M. Evdokimov, A. P. Landsman, and A. F. Milovanov (Vsesoiuzinyi Nauchno-Issledovatel'skii Institut Istochnikov Toka; Moskovskii Energeticheskii Institut, Moscow, USSR). (Geliotekhnika, no. 2, 1975, p. 18-24.) Applied Solar Energy, vol. 11, no. 1-2, 1975, p. 72-77. 6 refs. Translation.

The parameters of illuminated photoelectric converters are studied experimentally. It is shown that the observed dependence of carrier lifetime on the illumination intensity leads to a more pronounced dependence of the photocurrent and the photo-emf. Illumination-induced changes of the p-n junction boundary conditions lead at superhigh intensities to saturation of the photo-emf.

A75-41540 Calculation of the radiant energy field for a biparaboloidal radiation furnace with a carbon arc. G. la. Umarov, R. A. Zakhidov, and Iu. B. Sokolova (Akademiia Nauk Uzbekskoi SSR, Fiziko-Tekhnicheskii Institut, Tashkent, Uzbek SSR). (Geliotekhnika, no. 2, 1975, p. 35-42.) Applied Solar Energy, vol. 11, no. 1-2, 1975, p. 86-92. 5 refs. Translation.

Large-area solar energy concentrators are prepared by joining a number of film surfaces. The mechanical and optical properties of the concentrators change with the increase in film thickness at the joints. This makes it necessary to study the surface configurations of concentrators with joints of various type and to determine their influence on the concentrator characteristics. Analytical solutions are obtained to the linear problems of determining the deformed shape of a circular specular reflecting membrane with a diametral seam, and the deflections of a tread under a running load that represents the reaction of the thread on a loaded membrane.

V.P.

A75-41541 Investigation of the effect of boiler design and finite thermal response of solar water heaters on efficiency. R. R. Avezov and F. Soatov (Akademiia Nauk Uzbekskoi SSR, Fiziko-Tekhnicheskii Institut, Tashkent, Uzbek SSR). (Geliotekhnika, no. 2, 1975, p. 69-72.) Applied Solar Energy, vol. 11, no. 1-2, 1975, p. 115-117. Translation.

The analysis is carried out for metallic and sand-type solar water heaters and for two specific positions of the sun. The geometrical dimensions and the mechanical and heat-engineering indexes are tabulated. The analysis shows that, all other conditions being equal, the efficiency of metallic water heaters is greater by a factor of 2.2.

A75-41547 Computation of water temperature at the mouth of a geothermal well. G. D. Polizo (Odesskii Politekhnicheskii Institut, Odessa, Ukrainian SSR) and V. A. Kurishko (Krymneftegazrazvedka Trust, USSR). (Energetika, no. 4, 1974, p. 92-96.) Heat Transfer · Soviet Research, vol. 7, Mar.-Apr. 1975, p. 145-150. 6 refs. Translation.

A method is described for determining the temperature of water at the mouth of a geothermal well intended as a heat source, based on approximating the unsteady heat and mass transfer in the well by a quasi-steady process. A nomogram is given for determining the water temperature at the well mouth. (Author)

A75-41608 Suntight to electricity: Prospects for solar energy conversion by photovoltaics. J. A. Merrigan. Cambridge, Mass., MIT Press, 1975. 172 p. 153 refs. \$12.95.

Aspects of energy demand and supply in the U.S. to the year 2000 are examined. Solar energy as a resource is considered along with the principles of photovoltaic energy conversion and the state-of-the-art in photovoltaic conversion technology. Attention is given to silicon cells, cadmium sulfide, cuprous sulfide, cadmium telluride, the possibilities for technological advancement and cost reduction, and questions related to the storage of electrical energy. Economic considerations in the development of photovoltaic energy conversion are discussed, taking into account the demand for electricity, its supply, costs, and the markets for photovoltaic energy conversion.

G.R.

A75-41669 * # Design and testing of an energy flywheel for an Integrated Power/Attitude Control System /IPACS/. J. E. Notti and A. Cormack, III (Rockwell International Corp., Space Div., Downey, Calif.). American Institute of Aeronautics and Astronautics, Guidance and Control Conference, Boston, Mass., Aug. 20-22, 1975, Paper 75-1107. 9 p. Contract No. NAS1-13008.

This paper summarizes the design of a prototype flywheel energy storage assembly developed to evaluate the spacecraft Integrated Power and Attitude Control System (IPACS) concept. In the IPACS application, the flywheel assembly is used for kinetic electrical energy storage as well as conventional angular momentum control. The kinetic energy storage function dictates high rotational speeds which require new approaches to the design of the major components: rotors, motor-generators, bearing systems, and electronics. The paper includes a general description of a NASA-contracted prototype assembly, a discussion of major component design characteristics, and the presentation of preliminary test results as compared with analytical predictions. The test data were obtained from preliminary tests of the NASA prototype assembly as well as from a Rockwell prototype test unit. (Author)

A75-41698 * # Fuel conservation possibilities for terminal area compatible transport aircraft. G. W. Hanks (Boeing Commercial Airplane Co., Seattle, Wash.) and A. R. Heath, Jr. (NASA, Langley Research Center, Hampton, Va.). American Institute of Aeronautics and Astronautics, Aircraft Systems and Technology Meeting, Los Angeles, Calif., Aug. 4-7, 1975, Paper 75-1036. 14 p. 7 refs. Contract No. NAS1-12018.

Design characteristics that would reduce mission fuel consumption and improve terminal-area operations for advanced transports are discussed. Sensitivity studies of the effects of cruise speed, wing geometry, propulsion cycle, operational procedures, and payload on fuel usage are presented and utilized to arrive at a conceptual configuration which offers mission fuel savings as well as desirable operational characteristics in the terminal area. Technical and economic evaluation is provided in the form of a comparison of the resulting configuration with transports reflecting the current level of technology. The research and technology programs required to realize potential benefits are described. (Author)

A75-41768 Thermokinetics of a flat solar collector of constant heat capacity (Thermocinétique d'un insolateur plan de capacité calorifique constante). J. Fléchon, R. Wertwijn, and A. Diallo (Nancy I, Université, Nancy, France; Ecole Normale Supérieure, Bamako, Mali). Académie des Sciences (Paris), Comptes Rendus, Série B - Sciences Physiques, vol. 281, no. 1, July 7, 1975, p. 9-12. In French.

This paper examines the evolution with time of the temperature of a flat collector subjected to constant-power solar radiation normal to its surface. Two theories (one approximate, the other more involved) enable defining the instantaneous temperature of the collector by writing a corrected exponential law. The energy yield of the collector is calculated, and a comparison with experimental results confirms the predictions.

A75-42166 Enhancement of Schottky solar cell efficiency above its semiempirical limit. M. A. Green (New South Wales,

University, Kensington, Australia). Applied Physics Letters, vol. 27, Sept. 1, 1975, p. 287, 288. 6 refs. Research supported by the Radio Research Board of Australia.

Geometries are described for increasing the efficiency of Schottky solar cells above the theoretical limits recently calculated. The ultimate conversion efficiencies for the new cells are the same as for p-n junction devices. With present technology, improvements of over 50% above the old limits are possible.

(Author)

A75-42276 Hydrogen energy fundamentals; Proceedings of the Symposium-Course, Miami Beach, Fla., March 3-5, 1975. Symposium-Course sponsored by the University of Miami. Edited by T. N. Veziroglu (Miami, University, Coral Gables, Fla.). Coral Gables, Fla., University of Miami, 1975. 309 p. \$45.

The papers report fundamental information about and latest developments in the field of hydrogen energy and research into hydrogen as an important nonfossil fuel. Topics include solar-tower thermochemical energy cycles, thermochemical production of hydrogen, photoproduction of hydrogen by microbial and biochemical processes, energy transmission systems, hydrogen energy vs electrical energy, liquid hydrogen as an aviation fuel, automotive hydrogen engines, naval applications of hydrogen energy, and the economics of hydrogen energy systems.

F.G.M.

A75-42277 # Solar tower thermo-chemical energy cycles. A. F. Hildebrandt (Houston, University, Houston, Tex.). In: Hydrogen energy fundamentals; Proceedings of the Symposium-Course, Miami Beach, Fla., March 3-5, 1975. Coral Gables, Fla., University of Miami, 1975, p. S1-3 to S1-15. 23 refs.

Solar energy systems incorporating a central receiver, or solar tower, are briefly assessed. It is shown that the most promising method of energy conversion in such systems is the conventional steam cycle. The layout of a typical central receiver is outlined, its efficiency is estimated, and the available power at the receiver is evaluated analytically taking into account radiation and other losses. It is found that the heat produced is competitive with present fuel oil costs. Other thermodynamic solar-fuel cycles are considered, including water to hydrogen, methane-water to hydrogen-carbon monoxide, and organic waste to oil or gas. The minimal environmental impact of solar energy is noted.

A75-42279 # Photoproduction of hydrogen via microbial and biochemical processes. A. Mitsui (Miami, University, Miami, Fla.). In: Hydrogen energy fundamentals; Proceedings of the Symposium-Course, Miami Beach, Fla., March 3-5, 1975.

Coral Gables, Fla., University of Miami, 1975, p. S2-31 to S2-48. 68 refs. Research supported by the Gulf Oil Foundation.

The utilization of solar energy for the bioproduction of hydrogen gas is reviewed. Two approaches are discussed in relation to efforts being made to increase the efficiency of hydrogen bioproduction. The approaches investigate microbial processes in intact cell systems and biochemical processes for utilization in a cell-free system. (Author)

A75-42280 # Research opportunities in cryogenic hydrogenenergy systems. J. Hord (National Bureau of Standards, Institute for Basic Standards, Boulder, Colo.). In: Hydrogen energy fundamentals; Proceedings of the Symposium-Course, Miami Beach, Fla., March 3-5, 1975. Coral Gables, Fla., University of Miami, 1975, p. S3-11 to S3-23. 36 refs.

As liquid hydrogen pervades the commercial fuel market, new and improved products and technologies will be needed. To meet these demands appropriate research and development must be performed on hydrogen fuel systems. Candidate markets for cryogenic hydrogen-energy systems are reviewed and discussed, and associated research and development needs are outlined herein. A wide variety of cryogenic research and development opportunities exist.

(Author)

A75-42281 # Will hydrogen transmission replace electricity. P. J. Hampson, A. B. Hart, B. Jones (Central Electricity Generating Board, Central Electricity Research Laboratories, Leatherhead, Surrey, England), D. T. Swift-Hook (Central Electricity Generating Board, Marchwood Engineering Laboratories, Southampton, England), J. J. Syrett, and J. K. Wright (Central Electricity Generating Board, Research Dept., London, England). In: Hydrogen energy fundamentals; Proceedings of the Symposium-Course, Miami Beach, Fla., March 3-5, 1975. Coral Gables, Fla., University of Miami, 1975, p. S3-25 to S3-43. 15 refs.

It has been suggested that hydrogen, produced using nuclear power, could supplant electricity as the major way in which nuclear energy would be distributed and used. This paper compares the economics of transmitting and distributing nuclear energy as hydrogen and electricity. It is shown that if hydrogen is produced by electrolysis, it would be more expensive to deliver nuclear energy in this way than as electricity. Furthermore, since electricity is a higher grade source of energy than chemical fuel, its average usefulness per unit of energy delivered is higher. Whilst there are special areas where there may be a market for hydrogen generated from nuclear energy as fossil fuels become scarce, there does not seem to be an economic case for an all-embracing hydrogen economy. (Author)

A75-42282 # Aviation usage of liquid hydrogen fuel-Prospects and problems. G. D. Brewer (Lockheed-California Co., Burbank, Calif.). In: Hydrogen energy fundamentals; Proceedings of the Symposium-Course, Miami Beach, Fla., March 3-5, 1975. | Coral Gables, Fla., University of Miami, 1975, p. S4-3 to S4-37. 11 refs.

If worldwide air transportation is to continue to grow as forecast, a fuel must be found to supplant petroleum-based kerosene (Jet A). The new fuel must be available universally without hazard of control by cartel, and must meet fundamental requirements of economics, safety, performance and environmental considerations. Hydrogen is found to provide this potential. The results of studies performed to investigate the feasibility, practicability, and potential advantages/disadvantages of using liquid hydrogen as fuel in both subsonic and supersonic commercial transport aircraft for initial operation in the 1990-2000 time period are discussed. A program to develop needed technologies and to resolve questions such as how to introduce the new fuel into commercial service with least trauma is outlined. (Author)

A75-42283 # An energy utility company's view of hydrogen energy. J. M. Burger (Public Service Electric and Gas Co., Newark, N.J.). In: Hydrogen energy fundamentals; Proceedings of the Symposium-Course, Miami Beach, Fla., March 3-5, 1975.

Coral Gables, Fla., University of Miami, 1975, p. S4-39 to S4-63. 14 refs.

Several areas where the use of hydrogen has been of recent interest to electric and gas utilities are briefly examined. These are electrical peak-leveling systems with hydrogen as a storable medium, the production of hydrogen as a marketable product in either limited or large quantities, and the use of hydrogen for energy transmission. The relationship of these applications to utility operations is discussed generally and some numerical estimates on costs are given. Some research and development needs implied by cost considerations are indicated. (Author)

A75-42284 # Automotive hydrogen engines, and onboard storage methods. W. D. Van Vorst and J. G. Finegold (California, University, Los Angeles, Calif.). In: Hydrogen energy fundamentals; Proceedings of the Symposium-Course, Miami Beach, Fla., March 3-5, 1975. Coral Gables, Fla., University of Miami, 1975, p. S4-65 to S4-90. 31 refs.

A75-42285 # Economics of hydrogen energy systems. K. C. Hoffman (Brookhaven National Laboratory, Upton, N.Y.). In: Hydrogen energy fundamentals; Proceedings of the Symposium-

Course, Miami Beach, Fla., March 3-5, 1975. Coral Gables, Fla., University of Miami, 1975, p. S5-3 to S5-16. AEC-sponsored research.

An economic analysis of hydrogen energy systems is conducted. The analysis is performed by partitioning the national energy system into electrical and nonelectrical energy forms and considering the efficacy of hydrogen relative to electricity in specific end uses on the basis of the ratio of electrical-energy units needed to substitute for one hydrogen-energy unit. A possible partition range for the energy system is plotted together with typical efficacy ratios. An anticipated course is considered for incorporating hydrogen fuel into the energy system. The cost and efficiency are evaluated of various processes for the production, transport, and storage of hydrogen. It is found that hydrogen systems are generally less efficient than electrical systems except for the thermochemical production system, which can be competitive with electricity if 50% production efficiency can be attained.

A75-42286 # A technology assessment of the hydrogen economy concept. E. M. Dickson, J. W. Ryan, and M. H. Smulyan (Stanford Research Institute, Menlo Park, Calif.). In: Hydrogen energy fundamentals; Proceedings of the Symposium-Course, Miami Beach, Fla., March 3-5, 1975. Coral Gables, Fla., University of Miami, 1975, p. S5-19 to S5-39. NSF-sponsored research.

A75-42531 Massive production of hydrogen by a thermoelectrochemical method. J. O. Bockris (Flinders University, Adelaide, Australia). *Energy Conversion*, vol. 14, July 1975, p. 81-85, 25 refs.

Electrolytic hydrogen is thought to be too expensive. The suggestion that cyclical chemical methods of producing hydrogen (driven by heat) would lower its price compared with the electrolytic product is improbable. The best way to use heat to produce hydrogen is to raise the temperature of an electrochemical cell containing a solid electrolyte to about 1000 C. About 47 per cent of the energy needed to obtain hydrogen would then arise from the heat source. A reduction in ionic resistance of stable solid electrolyte membranes by about one order of magnitude would be necessary. With various alternative schemes assuming present and near-future costs, the price of thermo-electrochemical hydrogen is then between \$1.87 and \$3.55 per 1,000,000 BTU (1974 dollars). (Author)

A75-42532 High intensity wind belts as massive energy sources. J. O. Bockris (Flinders University, Adelaide, Australia). *Energy Conversion*, vol. 14, July 1975, p. 87-91. 26 refs.

Calculation of the year-average energy available from wind generators involves a factor which relates the cube of the mean annual wind (A) to the mean of the cubes of the instantaneous wind velocities (B). B/A is 2.7. The practical equation for electricity obtained after conversion to hydrogen, passage, and reconversion to electricity, yields a power of 5MW per 100-m radius rotor in a location where the mean annual wind is 30 kph. The practicality of wind rotors of 100 m or equivalent radius needs proving. Designs are proposed. Electrolysis of seawater evolves chlorine and its reconversion to oxygen is not a difficulty, but an extra cost. Hydrogen transfer up to 4000 km would be economic. The concept of large sea-borne rotors in high velocity wind belts with long distance hydrogen transmission offers a more readily attainable (and more environmentally acceptable) prospect than atomic or solar possibilities.

A75-42533 Fuel as an agricultural crop. J. Levitt (Institute of Soils and Water, Bet Dagan, Israel). *Energy Conversion*, vol. 14, July 1975, p. 93-96. 7 refs.

An immediately available method is described for converting the unharvested part of a crop into fuel to replace fossil fuel. In the form of 'charcoal, it could supply all the energy needed for raising, harvesting and marketing the crop, plus a considerable surplus. The ultimate aim should be to supply all the energy needs of agriculture from the photosynthetically produced by-products of crops. The fuel shortage today is widely recognized to be a political problem, a

business problem, an engineering problem, but few people recognize it as an agricultural problem. There are two reasons for agriculturists to become involved in the fuel problem: (1) modern agriculture consumes tremendous quantities of fuel, and (2) fuel can be produced as an agricultural crop. (Author)

A75-42973 # Getting at the big facts in transportation. D. Christensen and M. Pikarsky. Astronautics and Aeronautics, vol. 13, Sept. 1975, p. 46-53. 27 refs.

An analysis is conducted of the relative amount of petroleum consumed by private automobiles and public transportation. It is pointed out that transportation consumes over 50% of the nation's oil and that the driver-alone vehicle in the trip to and from work burns over 50% of that large share of energy. An investigation shows that public transportation is more efficient than the private car. Approaches for reducing oil consumption are discussed, taking into account an expansion of the public transit system.

G.R.

A75-43459 An AI p-silicon MOS photovoltaic cell. E. J. Charlson and J. C. Lien (Missouri, University, Columbia, Mo.). *Journal of Applied Physics*, vol. 46, Sept. 1975, p. 3982-3987. 27 refs.

A MOS photovoltaic diode, consisting of AI on p-type silicon with a thin interfacial layer of SiO2, has been found to have good conversion efficiency for solar radiation. Measurements of capacitance versus voltage, current versus voltage, and photocurrent per absorbed photon indicate a most probable surface barrier height of 0.85 eV, approximately twice as large as that for the normal AI p-silicon diode. A single-layer antireflection coating of silicon monoxide or zinc sulfide was found to increase the short-circuit current by approximately 50%. Double-layer coatings of zinc sulfide over silicon monoxide gave nearly the same increase with a shift of the maximum diode response to the near-infrared. Absolute light-conversion efficiencies of 8% at one sunlight level were obtained with short-circuit current densities as high as 26.5 mA/sq cm. (Author)

A75-43610 Solar energy conversion by water photodissociation. V. Balzani, L. Moggi, M. F. Manfrin, F. Bolletta (Bologna, Università, Bologna, Italy), and M. Gleria (CNR, Laboratorio de Fotochimica e Radiazioni d'Alta Energia, Bologna, Italy). Science, vol. 189, Sept. 12, 1975, p. 852-856. 25 refs. Research supported by the Consiglio Nazionale delle Recerche of Italy and NSF.

Some aspects of the photochemical conversion of solar energy by simple nonbiological systems are discussed. The basic concepts of direct and catalyzed photodissociation of water are outlined. Water dissociation in closed-cycle processes based on endothermic photochemical reactions offers a potential solution to the problem of solar energy conversion. It is shown that transition metal commplexes whose excited state chemistry is extremely rich are in principle suitable catalysts for cycles of this type. The most significant cycles are those involving metal hydrido complexes or binuclear complexes in which the two metal atoms are bound into a macrocyclic ligand.

A75-43860 # Influence of the geometrical development of the cathode surface on the specific power of a thermionic converter with surface ionization (O vilianii geometricheskogo razvitiia poverkhnosti katoda na udel'nuiu moshchnost' termoemissionnogo preobrazovatelia s poverkhnostnoi ionizatsiei). Iu. A. Dunaev, V. I. Babanin, A. S. Mustafaev, V. I. Sitnov, and A. Ia. Ender (Akademiia Nauk SSSR, Fiziko-Tekhnicheskii Institut, Leningrad, USSR). Zhurnal Tekhnicheskoi Fiziki, vol. 45, July 1975, p. 1488-1489. 9 refs. In Russian,

A75-43881 # Thermal performance analysis of the stationary reflector/tracking absorber /SRTA/ solar concentrator. J. F. Kreider (Environmental Consulting Services, Inc., Boulder, Colo.). (American Society of Mechanical Engineers, Paper 75-HT-FFF, 1975.) ASME, Transactions, Series C - Journal of Heat Transfer, vol.

97, Aug. 1975, p. 451-456, 11 refs.

The performance of a novel solar energy concentrating system consisting of a fixed, concave spherical mirror and a sun-tracking, cylindrical absorber is analyzed in detail. The effects of mirror reflectance, concentration ratio, heat transfer fluid flow rate, radiative surface properties, incidence angle, an evacuated absorber envelope, and insolation level upon thermal performance of the concentrator are studied by means of a mathematical model. The results of the study show that high-temperature heat energy can be collected efficiently over a wide range of useful operating conditions. The analysis indicates that mirror surface reflectance is the single most important of the principal governing parameters in determining system performance. Efficiency always increases with concentration ratio although the rate of increase is quite small for concentration ratios above 50. High fluid flow rate (i.e., lower operating temperature), an evacuated envelope, or a highly selective surface can (Author) enhance performance under some conditions.

A75-43976 Cryogenic Engineering Conference, Georgia Institute of Technology, Atlanta, Ga., August 8-10, 1973, Proceedings. Conference supported by the National Bureau of Standards, National Science Foundation, et al. Edited by K. D. Timmerhaus (Colorado, University, Boulder, Colo.; National Science Foundation, Engineering Div., Washington, D.C.). New York, Plenum Press (Advances in Cryogenic Engineering. Volume 19), 1974. 538 p. \$32.50.

A75-43977 # Cryogenic H2 and national energy needs. J. Hord (National Bureau of Standards, Cryogenics Div., Boulder, Colo.). In: Cryogenic Engineering Conference, Atlanta, Ga., August 8-10, 1973, Proceedings. New York, Plenum Press, 1974, p. 1-11. 81 refs.

National energy needs and resources are considered, taking into account as potential long-term abundant energy sources breeder fission reactors, fusion reactors, and solar power. Only solar power emerges as an abundant nonpolluting energy source with minimal threat to man. Energy storage problems could be solved by producing molecular hydrogen as a synthetic fuel. Cryogenic hydrogen is attractive as a transportation fuel, has certain potential advantages in hydrogen-electric utility systems, and is unexcelled in performance as an aerospace fuel. Aspects regarding the production of cryogenic hydrogen are discussed along with questions of liquefaction, storage, transmission, applications in utilities, applications in transportation, and uses in aerospace applications. G.R.

A75-43978 # The economics of liquid hydrogen supply for air transportation. J. E. Johnson (Union Carbide Corp., New York, N.Y.). In: Cryogenic Engineering Conference, Atlanta, Ga., August 8-10, 1973, Proceedings. New York, Plenum Press, 1974, p. 12-22. 8 refs.

Studies reported by Hallet (1968) have shown that large-scale projects can produce liquid hydrogen at prices that could make this fuel competitive if appropriate load factors and low-cost energy sources are available. An investigation is conducted concerning the prospects for an early application of liquid hydrogen which could substantially contribute toward easing the fuel shortage. Near-term benefits of liquid hydrogen would be greatest in aircraft operation. An analysis of the economics of liquid hydrogen takes into account a conversion of coal to hydrogen and a conversion of fission energy to hydrogen. It is concluded that a liquid hydrogen aviation fuel capability offers the best domestic alternate fuel strategy to counter overpricing and overdependence on imported hydrocarbon liquid fuel for air transportation.

A75-43979 # Cryogenic engineering and fusion power. C. E. Taylor (California, University, Livermore, Calif.). In: Cryogenic Engineering Conference, Atlanta, Ga., August 8-10, 1973, Proceedings. New York, Plenum Press, 1974, p. 28-34. 11 refs. AEC-sponsored research.

In order to reduce the consumption of power for the magnets of a fusion power plant to acceptable proportions, it is necessary that fusion reactors must use either cryogenically cooled or superconducting coils. The cryogenic aspects of reactor design are discussed. It is found that the most difficult cryogenic engineering problems of fusion reactors are mainly those caused by the large size of the superconducting magnets. Major approaches to fusion power are considered.

G.R.

A75-44005 # Solar cells for power generation on communication satellites. M. P. R. Panicker, M. J. Nair, and M. K. Mukherjee (Indian Space Research Organization, Vikram Sarabhai Space Centre, Trivandrum, India). (Institution of Engineers /India/, Seminar on Modern Trends in Communication Electronics, Hyderabad, India, Apr. 21, 1974.) Institution of Engineers (India), Journal, Electronics and Telecommunication Engineering Division, vol. 55, Apr. 1975, p. 68, 69; Discussion, p. 69.

The different types of power systems that could be used on a satellite are described briefly and the effects of each system are mentioned. Solar cells with chemical batteries being the most optimum combination at present, the advantages of thin film cadmium sulphide (CdS) cells are described. The construction details of a CdS cell with the problems encountered while processing such a cell are also mentioned. Power-to-weight ratio of CdS thin film cells is found to be the most advantageous feature for their application in satellites. (Author)

A75-44736 Plasma physics and controlled nuclear fusion research 1974; Proceedings of the Fifth International Conference, Tokyo, Japan, November 11-15, 1974. Volumes 1 & 2. Vienna, International Atomic Energy Agency, 1975. Vol. 1, 724 p.; vol. 2, 791 p. In English, Russian, and French. Price of volume 1, \$44; volume 2, \$47.

Various studies on the tokamak experiment, open confinement systems, low-beta toroidal systems, fusion reactor design problems, and inertial confinement are presented. Specific objects of the analyses include research on a tokamak with an axisymmetric divertor and impurity problems in tokamak devices, the effect of corrugation of the longitudinal magnetic field on the ion component of plasma in tokamaks, neutral beam injection experiments in Ormak, a study of the hot electron plasma in the minimum magnetic configuration B Circe, kink instabilities for shaped tokamaks in toroidal geometry, excitation of ion cyclotron harmonic waves by injection of a 10-keV ion beam into a plasma, the ion velocity distribution in a toroidal plasma with large Larmor radii, the effect of random density fluctuations on parametric interactions in a plasma, laser-plasma experiments relevant to laser-produced implosions, and gas-blanket studies in toroidal arcs.

A75-44751 Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Parts A & B. Conference sponsored by NSF, ARPA, and University of Miami. Edited by T. N. Veziroglu (Miami, University, Coral Gables, Fla.). New York, Plenum Press, 1975. Pt. A, 714 p.; pt. B, 718 p. Price of two parts, \$95.

The papers report on current world-wide efforts toward a universal hydrogen-energy economy with emphasis on solar, thermochemical, and thermal production of hydrogen. Topics include primary energy sources, hydrogen storage and transmission, hydrogen production using nuclear and geothermal energy, metal hydride storage, large-scale production of hydrogen from water, hydrogen automotive and aviation fuel and engine systems, hydrogen-fueled gas-dyanic lasers, and environmental impacts of a hydrogen economy.

F.G.M.

A75-44752 # Is massive solar energy conversion a practical prospect. J. O. Bockris (South Australia, Flinders University, Adelaide, Australia). In: Hydrogen energy; Proceedings of the

Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974, Part A. | New York, Plenum Press, 1975, p. 9-34. 44 refs.

Prospective methods of conversion of solar energy to electricity are related to the photovoltaic method, the photogalvanic method, photothermic methods, photosynthesis, the optical concentratorboiler method, the utilization of winds, and the use of ocean thermal gradients. The selection of materials in photovoltaics is considered. The principle of operation of photothermic methods and the problems which have to be solved to develop a feasible process are also discussed. Attention is given to the type of technology needed for lowering costs in photovoltaic conversion, the practicality of cadmium sulfide, and questions of solar-hydrogen economy. It is pointed out that a solar-hydrogen economy could probably be built on either the solar concentrator or the ocean-thermal gradient. G.R.

A75-44753 # A tower-top point focus solar energy collector.

A. F. Hildebrandt and L. L. Vant-Hull (Houston, University, Houston, Tex.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A.! New York, Plenum Press; 1975, p. 35-44. 10 refs. NSF Grant No. GI-39456.

Temperatures above 1000 C appear possible with a large segmented Fresnel mirror consisting of independent hydraulically or electrically steered heliostats constructed of flat mirrors. In order that the redirected solar radiation from a square mile be intercepted, a central receiver must be elevated well above the mirror field on a tower of about 450 meters height. A square-mile collector would produce heat at a peak rate of 500 MWT (megawatts thermal) in the winter and 700 MWT in the summer. (Author)

A75-44754 # Reliability of low cost Cu2S/CdS solar cells for large scale conversion of solar to electrical energy. L. D. Partain and M. M. Sayed (Delaware, University, Newark, Del.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A. New York, Plenum Press, 1975, p. 45-55. 12 refs. NSF-supported research.

Basic procedures of cell construction are briefly examined. It is pointed out that the manufacturing process is adaptable to automation leading to a low-cost production of the cell. The conduction of accelerated life tests is discussed and the nature of the cell degradation processes is considered. It is concluded that the production of high efficiency, low cost Cu2S/CdS solar cells for large scale conversion of solar to electrical energy appears to be technically and economically feasible.

G.R.

A75-44755 # Geothermal energy as a resource in a hydrogen energy economy. F. Maslan and T. J. Gordon. In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A.. New York, Plenum Press, 1975, p. 57-85. 32 refs. NSF Grant No. C-836.

The major characteristics of the development of geothermal energy are examined. The location of geothermal resources and their geology, a description of a typical geothermal power plant, relevant environmental considerations, technologically feasible levels of geothermal energy resources development in the United States, and the combination of geothermal energy with the hydrogen energy economy are discussed. The forecast of technical feasibility is based on a careful review of a methodological sequence to be utilizable in the 1985-2000 time interval.

A75-44756 # The effect of atmospheric turbulence on windmill performance. T. E. Base (Western Ontario, University, London, Canada). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A. New York, Plenum Press, 1975, p. 87-105, 22 refs.

Theoretical and experimental studies have been made to determine the effects of free-stream turbulence structure on the performance of a simple airscrew windmill. A modified blade-

element method was developed to predict the fluctuating life forces on the rotor blades, and computed vortex models of turbulence were used to represent the fluctuating velocity field. Eventually, the computer program will enable large-rotor-diameter windmill performance studies to be conducted and comparisons to be made with small test rotors.

(Author)

A75-44757 # Nuclear water splitting and high temperature reactors. H. Barnert and R. Schulten (Kernforschungsanlage Jülich GmbH, Jülich, West Germany). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A. New York, Plenum Press, 1975, p. 115-128. 7 refs.

The economic and organizational aspects of nuclear hydrogen production are discussed. The political and financial importance of energy independence is stressed, and the relatively low cost of nuclear fuel and reactor operation is pointed out. Environmental effects are investigated and found to be minimal. The superiority of hydrogen to alternative energy carriers, such as electricity, is demonstrated.

S.J.M.

A75-44758 # High-temperature nuclear reactors as an energy source for hydrogen production, J. D. Balcomb and L. A. Booth (California, University, Los Alamos, N. Mex.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A.

New York, Plenum Press, 1975, p. 129-136. AEC-sponsored research.
Application of current high-temperature reactor technology to hydrogen production is reviewed. The requirements and problems of matching a thermochemical hydrogen-production cycle to a nuclear heat source are discussed. Possibilities for extending the temperature of reactors upward are outlined. The major engineering problem is identified as the development of a high-temperature process heat exchanger separating the nuclear heat source from the chemical process.

(Author)

A75-44759 # Hydrogen production with a high-temperature gas-cooled reactor /HTGR/. R. N. Quade and A. T. McMain (General Atomic Co., San Diego, Calif.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A. New York, Plenum Press, 1975, p. 137-154.

Use of the HTGR (high-temperature gas-cooled reactor) as a major supplier of electric energy has been established. However, the total market for energy forms other than electricity is large and represents a new potential use for nuclear reactors. Of the many ways an HTGR can be applied to a chemical process to produce hydrogen, two are discussed in detail. One is for steam hydrocarbor reforming, which might be considered a thermochemical open-cycle process; the other is water-splitting, a thermochemical closed-cycle process. (Author)

A75-44760 # Hydrogen production from decomposition of water by means of nuclear reactor heat. S. Dorner and C. Keller (Gesellschaft für Kernforschung mbH, Karlsruhe, West Germany). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A. New York, Plenum Press, 1975, p. 155-166. 20

A closed-cycle process is described for the production of hydrogen from water by means of nuclear heat. The following steps are needed: dissolution of a metal, preferably Ag, in hydrohalogenic acids; transformation of the silver halide into silver and oxygen by means of alkaline hydroxides; splitting the alkaline halide into the basic and acid components by a chemical reaction or by electrolysis. A critical discussion, however, shows that it cannot be determined at present whether this process can be realized in practice. (Author)

A75-44761 # Aqueous homogeneous reactor for hydrogen production. W. Kerr and D. P. Majumdar (Michigan, University, Ann Arbor, Mich.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March

18-20, 1974. Part A. New York, Plenum Press, 1975, p. 167-181, 14 refs.

Hydrogen production by radiolysis of water in aqueous reactors is described. Three reactor designs are considered, and the essential features of each are described. The use of thermal neutron leakage into an aqueous blanket surrounding the main power-generating part of the reactor is treated. The potential of a low-power reactor for production of hydrogen is evaluated. The design of a system to extract the hydrogen generated by the fission fragments and other charged particles is considered. (Author)

A75-44762 # Wind capture and diversion through pneumatic energy recovery with large capacity aerogenerators. P. E. Coulter (Florida International University, Miami, Fla.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A., New York, Plenum Press, 1975, p. 183-196.

An investigation of a novel design approach to capturing and containing wind in a useable energy form in a 1.5- to 2.5-megawatt power range. Rotor blade, air entrainment and transmission, and tower design are graphically described. Methods of energy conversion and output reliability are discussed, followed by concluding remarks concerning research and development needs relative to anticipated application of the large-capacity aerogenerator. (Author)

A75-44763 # Sea thermal power as a hydrogen and methanol generator. J. H. Anderson (Sea Solar Power, Inc., York, Pa.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A. New York, Plenum Press, 1975, p. 197-207.

Arguments are presented in favor of sea thermal power as a viable, inexpensive source of energy for the production of fuels such as hydrogen and methanol. The basic principles of operation of a sea thermal power plant and the economics of sea thermal power plant technology are considered in detail. Ocean thermal power plants can be constructed more rapidly than nuclear plants or fossil plants, and operating costs should also be lower.

S.J.M.

A75-44764 # Ocean based solar-to-hydrogen energy conversion macro system. W. J. D. Escher (Escher Technology Associates, St. Johns, Mich.) and J. A. Hanson (Oceanic Institute, Waimalano, Hawaii). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A. New York, Plenum Press, 1975, p. 209-229. 11 refs.

Mechanized ocean thermal power production of hydrogen fuel is investigated. Hydrogen's natural advantages of transportability and storability are the basis for the choice of this energy carrier over electricity. World production of fossil fuels is expected to peak between 2030 and 2080, at which time reliable and economic nonfossil-based energy supplies will be available. Ocean basing of large-scale 'central' solar energy conversion facilities (as opposed to conventional desert locations) offers significant advantages: virtually unlimited collection area, enormous thermal sink, immediate source of feedstock water, excellent logistics, low-friction bearing surface, and availability of ocean thernal gradient mode. Ocean basing also offers several coproduction possibilities, particularly that of open sea mariculture.

A75-44765 # Thermochemical water cracking using solar heat. C. J. Swet (Johns Hopkins University, Silver Spring, Md.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A. New York, Plenum Press, 1975, p. 231-242. 9

Direct solar radiation is shown to be a potentially superior source of energy for the thermochemical production of hydrogen from water, especially in a regionally self-sufficient hydrogen economy. Its impact on chemical-cycle selection, conversion efficiency, operating mode, plant siting, plant capacity, and product cost is compared with that of a nuclear heat source. Conceptual designs and development goals are suggested. (Author)

refs.

A75-44766 # Photolysis of water as a solar energy conversion process - An assessment. S. N. Paleocrassas (Tri-State College, Angola, Ind.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A. | New York, Plenum Press, 1975. p. 243-253. 14 refs.

One of the less conventional solar-energy conversion methods is the photocatalytic decomposition of H2O to generate H2 and O2 directly. This paper presents an assessment of photolysis of water by sunlight. Calculations are used to establish efficiency upper limits for this type of energy-conversion method using three different photocatalysts: compound salts, compound semiconductors, and photosynthetic dyes. The efficiencies were estimated to be 3 percent, 28 percent, and 7 percent, respectively. (Author)

A75-44767 # The technology and economies of hydrogen production from fusion reactors. J. Powell, F. J. Salzano, and W. A. Sevian (Brookhaven National Laboratory, Upton, N.Y.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A. | New York, Plenum Press, 1975, p. 255-277. 16

The technology, economics, and environmental effects of producing synthetic fuels (H2 gas, H2 liquid, and methanol) based on fusion (CTR) reactors are assessed. Four United States energy systems (2020 A.D.) with different degrees of CTR implementation are compared: in System A, no CTR input is assumed; in System B, CTRs replace 50 percent of nuclear-fission electricity; in System C, CTRs supply all electrical demand, produce synthetic fuels to replace all oil and gas imports, and eliminate strip mining; and in System D, CTRs supply all electrical demand and virtually all fuel demand. CTR reactor costs are analyzed in detail for a range of containment parameters, reactor outputs, and first well loadings for DT and catalyzed DD fuel cycles. (Author)

A75-44769 # An economic perspective on hydrogen fuel. J. E. Johnson (Union Carbide Corp., New York, N.Y.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A. New York, Plenum Press, 1975. p. 299-308.

The economic aspects of the production of different energy carriers are reviewed. Synthetic kerosene, hydrogen, methane, ammonia, and methanol are considered as energy media. Two major factors are discussed: (1) the capital investment required to provide the facilities to convert fuel to energy; and (2) the total resources consumed in accomplishing a given task efficiently. Various applications of these forms of energy are investigated, including domestic heating, automotive applications, air transportation, and electricity generation.

S.J.M.

A75-44770 # The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms. A. Mitsui (Miami, University, Miami, Fla.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A. New York, Plenum Press, 1975, p. 309-316. 11 refs.

The production of hydrogen by a cell-free system of photosynthetic organisms is discussed. This represents a potential source of energy that does not exploit traditional energy resources but utilizes available solar radiation. Screening of tropical and subtropical marine photosynthetic bacteria and algae which exhibit a high activity for the photoproduction of hydrogen is also proposed. (Author)

A75-44771 * # An analysis of hydrogen production via closed-cycle schemes. R. E. Chao (Puerto Rico, University, Mayaguez, P.R.) and K. E. Cox (New Mexico, University, Albuquerque, N. Mex.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A. New York, Plenum Press, 1975, p. 317-330. 12 refs. Grant No. NGT-44-005-114.

A thermodynamic analysis and state-of-the-art review of three

basic schemes for production of hydrogen from water: electrolysis, thermal water-splitting, and multi-step thermochemical closed cycles is presented. Criteria for work-saving thermochemical closed-cycle processes are established, and several schemes are reviewed in light of such criteria. An economic analysis is also presented in the context of energy costs.

(Author)

A75-44772 # Hydrogen as energy storage element. L. W. Zelby (Oklahoma, University, Norman, Okla.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A. New York, Plenum Press, 1975, p. 339-343. 6 refs.

A wind power system for the residential sector, based on a minimum wind velocity of 10 km/h (the average wind speed in about half of the continental United States) and using hydrogen as its energy storage medium, is proposed. This system is advantageous in that it is self-contained and employs off-the-shelf components. The estimated cost of the system, including installation, is about \$5000; at current rates, this figure could be amortized in about 10 years. The windmill drives a generator which operates an electrolysis plant to produce the hydrogen. A storage battery is included in the design for temporary overloads.

A75-44773 # On methods for the large-scale production of hydrogen from water. J. O. Bockris (South Australia, Flinders University, Adelaide, Australia). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A. \ New York, Plenum Press, 1975, p. 371-403. 37 refs.

The thermodynamic and kinetic aspects of the electrochemical production of hydrogen from water are examined, taking into account the advantage of higher operational temperatures and approaches for reducing the overpotential. The hydrogen production costs for classical electrolysis cells could be significantly reduced with the aid of an emerging technology. The development of high temperature electrolysis is discussed along with methods of low-potential electrolysis utilizing thermal assistance. The electrolysis of HI, cuprous chloride, and ferrous and ferric chloride is considered. Attention is given to anode depolarization, photo-electrochemical methods, photosynthesis, and plasma torch photolysis. It is concluded that light-oriented methods of going directly to hydrogen appear to be very promising and deserve wide-ranging support. G.R.

A75-44774 # Electrolytic hydrogen generators. J. 8. Laskin (Teledyne, Inc., Timonium, Md.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A. New York, Plenum Press, 1975, p. 405-415.

The use of three types of electrolytic hydrogen generators is detailed. In all of the systems, water is dissociated in a module made of multiple electrolysis cells connected electrically in series. In each cell, the anode and cathode are separated by a gas-impermeable porous matrix electrolyte frame. Electrolyte is circulated through the module to replace dissociated water and remove waste heat. The types of generators differ primarily in their size: the smallest weighs 80 pounds and measures 26 in. by 14 in. by 10 in., the intermediate system is 33 by 74 by 64 inches and generates hydrogen at 17 cents/100 SCF, and the largest unit produces hydrogen at 14 cents/100 SCF while taking up 260 sq ft of floor space.

A75-44775 # Electrolysis of sea water. L. O. Williams (Martin Marietta Aerospace, Denver, Colo.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A. New York, Plenum Press, 1975, p. 417-424. 6 refs.

Preliminary results of direct electrolysis of natural sea water for hydrogen production purposes are presented. These results are obtained to determine whether hydrogen and oxygen can be evolved from sea water in a relatively pure form, along with the electrical parameters necessary for this evolution. Major conclusions are that hydrogen can be produced from sea water by direct electrolysis, that

chlorine production predominates over oxygen at the anode, that oxygen can be evolved at the anode together with chlorine at current densities of 90 mA per sq cm, and changes at the cathode give rise to insoluble precipitates on the cathode and in the surrounding sea water. Factors hindering large-scale hydrogen production by electrolysis of sea water are discussed.

S.D.

A75-44776 * # Hydrogen generation through static-feed water electrolysis. F. C. Jensen and F. H. Schubert (Life Systems, Inc., Cleveland, Ohio). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A. New York, Plenum Press, 1975, p. 425-439. NASA-supported research.

A static-feed water electrolysis system (SFWES), developed under NASA sponsorship, is presented for potential applicability to terrestrial hydrogen production. The SFWES concept uses (1) an alkaline electrolyte to minimize power requirements and materials: compatibility problems, (2) a method where the electrolyte is retained in a thin porous matrix eliminating bulk electrolyte, and (3) a static water-feed mechanism to prevent electrode and electrolyte contamination and to promote system simplicity. (Author)

A75-44777 # Hydrogen generation by solid-polymer electrolyte water electrolysis. L. J. Nuttall, A. P. Fickett, and W. A. Titterington (General Electric Co., Lynn, Mass.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A. New York, Plenum Press, 1975, p. 441-455.

A water electrolysis technology based on a solid-polymer electrolyte (SPE) concept is presented for applicability to large-scale hydrogen production in a future energy system. High cell-current density operation is selected for the application, and supporting cell test-performance data are presented. The inherent system advantages of the acid SPE electrolysis technology are explained. System performance predictions are made through the year 2000 along with plant-capital and operating-cost projections. (Author)

A75-44778 * # Evaluation of multi-step thermocnemical processes for the production of hydrogen from water. J. E. Funk, W. L. Conger, and R. H. Carty (Kentucky, University, Lexington, Ky.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A. New York, Plenum Press, 1975, p. 457-469. 12 refs. Grant No. NGR-18-001-086.

A75-44779 # Considerations on iron-chloride-oxygen reactions in relation to thermochemical water-splitting. G. De Beni (EURATOM and Comitato Nazionale per l'Energia Nucleare, Centro Comune di Ricerche, Ispra, Italy). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A. New York, Plenum Press, 1975, p. 471-482. 10 refs.

A75-44780 # Thermochemical hydrogen production research at Lawrence Livermore Laboratory. R. G. Hickman, O. H. Krikorian, and W. J. Ramsey (California, University, Livermore, Calif.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A. New York, Plenum Press, 1975, p. 483-498. 25 refs. AEC-sponsored research.

Three novel closed-cycle processes for the thermochemical production of hydrogen from water are under study at the Lawrence Livermore Laboratory. The first cycle is based upon selenium and its compounds, the second on mercury, and the third on methane and methanol. None of these cycles involves halogens, and reaction temperatures are limited to 700 C. Although still in the conceptual stages, some preliminary experiments have been conducted on the first two processes, with the main effort on the first process.

(Author)

A75-44781 # Analysis of thermochemical water-splitting cycles. J. B. Pangborn and J. C. Sharer (Illinois Institute of Technology, Chicago, Ill.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A. New York, Plenum Press, 1975, p. 499-515. 9 refs.

A brief description is given of a research program concerned with the derivation, evaluation, and experimental investigation of closed-cycle chemical reaction sequences for splitting water into hydrogen and oxygen. Thermodynamics and water-splitting efficiencies are considered and efficiency calculations for thermochemical cycles are discussed. The evaluation procedure outlined makes it possible to obtain realistic estimates of potentially achievable energy efficiencies for the conversion of heat to hydrogen by splitting water. The most efficient process examined accepts heat at 925 C and cannot exceed about 61 per cent energy efficiency.

G.R.

A75-44782 # A search for thermochemical water-splitting cycles. J. L. Russell, Jr. and J. T. Porter (General Atomic Co., San Diego, Calif.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A. New York, Plenum Press, 1975, p. 517-529.

A description is given of an exhaustive computer-aided search for water-splitting cycles. SPLIT, a family of computer programs, has been written with the objective to perform a search for few-step, thermodynamically permissible, water-splitting cycles. The computer procedure for writing a reaction between two compounds is discussed along with questions concerning the thermodynamic evaluation and the search procedure in the case of two-step, three-step, and four-step cycles.

G.R.

A75-44783 # Low thermal flux glass-fiber/metal vessels for LH2 storage systems. C. A. Hall and D. E. Spond (Martin Marietta Aerospace, Denver, Colo.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A. New York, Plenum Press, 1975, p. 561-574.

Composite tanks and tubes have been developed that consist of thin metal liners overwrapped with glass-fibers. Because the glass-fiber is a very good thermal insulator and the thin metal liner has a small cross-sectional area, the longitudinal heat conductivity is considerably reduced when compared to an all-metal design. The composite overwrapped tanks and tubes are also damage resistant and lightweight. Fabrication techniques and the use of composites to help solve the problems associated with the development of LH2 power transportation vehicles are discussed. (Author)

A75-44784 # An engineering-scale energy storage reservoir of iron titanium hydride. G. Strickland, J. J. Reilly, and R. H. Wiswall, Jr. (Brookhaven National Laboratory, Upton, N.Y.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part A. New York, Plenum Press, 1975, p. 611-620. Research supported by the Public Service Electric and Gas Company of New Jersey and AEC.

A hydrogen reservoir containing 14 lb of H2 in the form of 893 lb of granular iron titanium hydride was constructed and tested. The reservoir will be used by Public Service Electric and Gas Company of New Jersey to study the feasibility of storing off-peak electrical energy through the use of a water electrolyzer, a hydride reservoir and a fuel cell stack. The internal functional components of the stainless steel vessel consist of a barrier in the form of porous metal tubes, and heat exchanger tubes. Details of construction, preparation of the hydride, and performance tests made at BNL are described.

(Author)

A75-44787 # Engine performance with gasoline and hydrogen - A comparative study. J. B. Finegold and W. D. Van Vorst

(California, University, Los Angeles, Calif.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part B.

New York, Plenum Press, 1975, p. 685-696. 10 refs. Research supported by the U.S. Department of Transportation.

An experimental investigation of the performance of an internal combustion engine using hydrogen instead of gasoline has been carried out. The minimal modifications necessary for operation based on hydrogen are discussed. Operation with hydrogen resulted in an increase in brake thermal efficiency of 25 to 100 percent over that obtained with gasoline, while oxides-of-nitrogen emissions were reduced 90 to 97 percent. Some form of charge dilution is essential when operating with hydrogen at high power output, and the spark plug gap should be set significantly narrower.

(Author)

A75-44789 # Backfire control techniques for hydrogenfueled internal combustion engines. F. E. Lynch (Billing Energy Research Corp., Provo, Utah). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part B. New York, Plenum Press, 1975, p. 717-726. 12 refs.

The commonly cited causes of backfires, such as hot spots caused by preignition, are inadequate to explain backfires under many circumstances. A viable hypothesis is formed through consideration of high-temperature particulate matter in the residual cylinder gases. Various methods for controlling backfires are surveyed from the viewpoint of thermal explosion theory. Some novel engine constructions, which are effective in suppressing backfires, are offered in support of a residual gas-quenching technique. (Author)

A75-44791 • # — Hydrogen for the subsonic transport. P. F. Korycinski and D. B. Snow (NASA, Langley Research Center, Hampton, Va.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part B. New York, Plenum Press, 1975, p. 819-838. 12 refs.

Relations between air travel and fuel requirements are examined. Alternate fuels considered in connection with problems related to a diminishing supply of petroleum include synthetic jet fuel, methane, and hydrogen. A cruise flight of a subsonic aircraft on a hydrogen-fueled jet engine was demonstrated in 1957. However, more development work is required to provide a sound engineering base for a complete air transportation system using hydrogen as fuel. Aircraft designs for alternate fuels are discussed, giving attention to hydrogen-related technology already available and new developments which are needed.

A75-44792 # Liquid hydrogen as a fuel for future commercial aircraft. R. D. Lessard (United Aircraft Research Laboratories, East Hartford, Conn.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part B. New York, Plenum Press, 1975, p. 839-857. 28 refs.

A realistic cost is established for liquid hydrogen delivered to the aircraft, and the question is evaluated of whether liquid hydrogen at this cost level would be competitive with conventional aircraft fuels. It is found that the least expensive commercial method for producing hydrogen is coal gasification. However, barring any major unforeseeable increases in the price of crude oil obtained from petroleum or derived from coal or oil shale, it does not appear that liquid hydrogen produced by any of the present or proposed processes could supplant conventional aircraft fuel in commercial aircraft before the year 2000. (Author)

A75-44794 # Utilization of hydrogen as an appliance fuel J. C. Sharer and J. B. Pangborn (Illinois Institute of Technology, Chicago, III.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March

18-20, 1974. Part B. New York, Plenum Press, 1975, p. 875-887. 5 refs. Research sponsored by the Southern California Gas Co.

This paper treats some aspects of utilizing hydrogen as an appliance fuel. Catalytic combustion techniques, attainable efficiencies, burner exhaust emissions, and the advantages and disadvantages of using hydrogen to fuel appliances are discussed.

(Author)

A75-44795 # Surface electronic properties and the search for new hydrogen oxidation catalysts. G. E. Laramore, J. E. Houston, and R. L. Park (Sandia Laboratories, Albuquerque, N. Mex.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part B. New York, Plenum Press, 1975, p. 889-899. 28 refs. AEC-supported research.

The development of cheap substitutes for the 'noble' metals as oxidation catalysts provides alternatives to direct combustion in the utilization of hydrogen as an energy source. Current likely candidates are the transition-metal carbides which have many of the desirable properties of the 'noble' metals with respect to hydrogen oxidation and hydrogenolysis. In an attempt to understand this phenomenon and to systematize the search for new catalytic materials, the surface electronic properties of tungsten, tungsten carbide, and platinum are measured and compared. (Author)

A75-44796 # Hydrogen as an energy carrier. R. G. Murray (Oklahoma State University, Stillwater, Okla.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part B. New York, Plenum Press, 1975, p. 901-914. 7 refs.

The physical and chemical properties of hydrogen make it a nearly optimum fuel. The only serious drawback to hydrogen as a fuel is its low energy density on a volume basis. Hydrogen-utilization devices are examined, taking into account hydrogen-air combustors, a water-modified hydrogen-oxygen burner for providing steam, air-breathing gas turbines, rocket engines, the hydrogen-oxygen fuel cell, and reciprocating engines. An investigation shows that the overall feasibility for usage of hydrogen both as a fuel and a chemical by future society is quite favorable.

G.R.

A75-44797 # On the role of hydrogen in electric energy storage. F. J. Salzano, E. A. Cherniavsky, R. J. Isler, and K. C. Hoffman (Brookhaven National Laboratory, Upton, N.Y.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part B. New York, Plenum Press, 1975, p. 915-932. 23

refs

The general requirements for electric utility energy storage devices are discussed and a description is given of a specific type of storage concept involving the production of hydrogen, the storage of the hydrogen, and the reconversion of the hydrogen to electricity during periods of peak demand. It is found that under conditions of a cheap abundant supply of oil hydrogen storage electric peaking plants or any other storage device more expensive than pumped storage are not competitive with the gas turbine for electric peaking applications. Hydrogen storage peaking plants are, however, an economic alternative for peaking applications when the oil supply is constrained.

A75-44798 # Hydrogen-energy storage for electrical utility systems. C. J. Kippenhan and R. C. Corlett (Washington, University, Seattle, Wash.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part B. New York, Plenum Press, 1975, p. 933-947. 14 refs.

A purely electrical system is considered in the investigation, taking into account a system in which electric energy only is available to produce hydrogen. It is assumed that the only end

product will be useful electrical energy at some later time. A system outline is presented and questions concerning the theory and the technology of water electrolysis are discussed. Hydrogen storage and associated problems are considered along with the approaches available to recover the electrical energy by a hydrogen recombination process. The capital costs of a hydrogen-energy system are found to be comparable to those involved in an expansion of base-load capacity. G.R.

An economic study of electrical peaking alter-A75-44799 # natives. W. R. Parrish (National Bureau of Standards, Boulder, Colo.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. 'New York, Plenum Press, 1975, p. Part B. 949-968, 30 refs.

Results are given of a feasibility study of alternatives for producing peak power. Fuel cells, batteries, and superconducting magnetic storage are considered as well as gas turbines and pumped storage. The fuels considered are hydrogen from coal or electrolysis, synthetic natural gas, and methanol. Fuel storage alternatives include liquid, compressed gas, and (for hydrogen) metallic hydride. (Author)

A75-44800 # An MHD energy storage system comprising a heavy-water producing electrolysis plant and a H2/O2/CSOH MHD generator/steam turbine combination to provide a means of transferring nuclear reactor energy from the base-load regime into the intermediate-load and peaking regimes. S. J. Townsend and W. W. Koziak (SJT Consultants, Ltd., Thornhill, Ontario, Canada). In: Hydrogen energy: Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part B. New York, Plenum Press, 1975, p. 983-989.

Air Force experience in the use of liquid hydrogen as an aircraft fuel. B. C. Dunnam (USAF, Aero Propulsion Laboratory, Wright-Patterson AFB, Ohio). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part B. New York, Plenum Press, 1975, p. 991-1010.

The Air Force began to show interest in liquid hydrogen as an aircraft fuel in about 1943. The use of hydrogen appeared particularly attractive in connection with studies concerning the development of a high altitude reconnaissance aircraft in the 1954-1958 time period. Investigations and development work leading to the construction of test engines operating with liquid hydrogen are discussed, taking into account related studies concerned with the production, storing, handling, and transportation of hydrogen fuel. During the time from 1963 to 1967 a pilot plant for producing hydrogen slurry, a mixture of solid and liquid, was developed. Other investigations reported were related to a study of the use of liquid hydrogen for the C-5A aircraft and for vehicles with velocities exceeding Mach 5.

Hydrogen distribution profiling. R. A. A75-44805 # Langley, S. T. Picraux, and F. L. Vook (Sandia Laboratories, Albuquerque, N. Mex.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part B.: New York, Plenum Press, 1975, p. 1089-1103. 8 refs. AEC-supported research.

A technique using nuclear microanalysis has been developed to determine deuterium concentration versus depth profiles in the near-surface regions of solids. The technique uses an incident He-3 beam and detects the nuclear reaction products from the reaction He-3(d,p) He-4, as well as the Rutherford-scattered He-3 from atoms of the solid. By energy analysis of the He-4 recoils, the deuterium concentration-depth profile can be determined. Details and results of the technique are presented for ErD2. Using the same reaction the lattice location of D-2 in single crystals can be determined. The

technique utilizes deuterium implantation followed by analysis with a channeled He-3 beam. Results are presented for D-2 in tungsten.

(Author)

A75-44806 # Future United States demand patterns and the use of hydrogen. L. T. Blank (Texas, University, El Paso, Tex.) and R. K. Riley (Missouri, University, Rolla, Mo.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part B. New York, Plenum Press. 1975, p. 1105-1122. 20 refs.

The future energy demands under the concepts of saturation and conservation are forecast for the common use areas. Details of conservation efforts in each area are given. Convertibility to hydrogen is estimated for each use area based on conservative demand projections. The estimates are made for the energy demand which is readily convertible and possibly convertible to the use of hydrogen fuel. (Author)

A75-44807 # Social and environmental context of the hydrogen economy, J. D. Salmon (Virginia Polytechnic Institute and State University, Blacksburg, Va.) and J. G. Witwer (Oklahoma, University, Norman, Okla.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974, Part B. New York, Plenum Press, 1975, p. 1123-1135. 11 refs.

A hydrogen-energy study conducted in 1973 at the Johnson Space Center utilized interdisciplinary teams to identify social-level impacts of the hydrogen economy. This paper presents some of the findings and some extensions of that work. A matrix evaluation scheme was used so that informed judgment could be directed to the social impacts of hydrogen by combining social and technical considerations. These results provide background for some implementation scenarios. (Author)

A75-44808 # Environmental impact of a suitable nuclear power reactor used to provide a process heat system to synthesize fuels. J. A. Richardson (Burns and Roe, Inc., Oradell, N.J.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part B. 'New York, Plenum Press, 1975, p. 1137-1156. 9

Nuclear power reactors could produce electricity and provide hydrogen and oxygen with the aid of a water-electrolysis procedure. The regulatory requirements for nuclear power reactors are examined and the effects of a typical 1100 MWE nuclear power reactor on the environment are investigated. Attention is given to the radioactive wastes produced, the boiling reactor, solid waste, liquids, and gases. Conditions in the case of a pressurized water reactor are also investigated. Problems related to the transportation of radioactive waste are discussed along with the environmental impact of the required cooling operations. G.R.

A75-44809 # How might the hydrogen economy affect our resources and environment. H. J. Plass, Jr. (Miami, University, Coral Gables, Fla.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part B. New York, Plenum Press, 1975, p. 1157-1176. 9 refs.

Several systems for the production, distribution and utilization of hydrogen are compared with corresponding systems not using hydrogen, but having the same energy resource base. For the systems being compared, estimates are made of rates of consumption of energy resources, and of the forms and extent of environmental damage resulting from the use of the particular system. Except for solar energy, the resource depletion rates and environmental costs of hydrogen systems are greater than those of their non-hydrogen counterparts. (Author)

A75-44810 # The energy crises. F. Schulman (Fred Schulman Associates, Silver Spring, Md.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part B. New York, Plenum Press, 1975, p. 1181-1192. 7 refs.

The energy crises facing America involve complex technical, environmental, political, financial, tax, and diplomatic aspects. This paper covers some of these interrelationships as they relate to (1) the nature of the oil crisis and how the U.S. got into it; (2) the Arab oil weapon and its effects on the U.S.; (3) what can be done about it, both short and long term; (4) effects on foreign relations; and (5) the Soviet role in this complex situation. Determined action can overcome current and future energy crises. (Author)

A75-44811 # Hydrogen Mechanisms and strategies of market penetration. A. S. Manne and C. Marchetti (International Institute for Applied Systems Analysis, Laxenburg, Austria). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part B. | New York, Plenum Press, 1975, p. 1193-1208.

A description is given of a model for quantifying the benefits of a use of hydrogen in the energy sector. A model for optimizing the level and the structure of the research effort is also presented. A series of sensitivity analyses are conducted. In all cases, even with the most pessimistic assumptions concerning a nongrowing, slow-learning society, the prospective benefits appear high. Compared with these benefits, the costs of exploratory research are low enough to justify the support of parallel projects during the next five years.

G.R.

A75-44812 # Technical problems facing the hydrogen economy. D. P. Gregory (Illinois Institute of Technology, Chicago, Ill.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974: Part B. New York, Plenum Press, 1975, p. 1209-1217.

Problems affecting a use of hydrogen as fuel are related to a price which has to be competitive to that of other fuels, questions regarding the compatibility of hydrogen with appliances and burners, aspects of hydrogen availability, and the characteristics of the conversion procedure. An investigation is conducted regarding the nuclear energy capacity available for hydrogen production. A national program is proposed for creating a basis for a hydrogen economy. Recommended program objectives include a reduction in the cost of hydrogen by electrolysis, the production of cheap hydrogen from coal to provide an incentive for the use of hydrogen as a fuel, and the demonstration of hydrogen utilization in industrial burners and domestic appliances.

G.R.

A75-44813 # The hydrogen economy and the law. T. C. Cady (West Virginia University, Morgantown, W. Va.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part B.

New York, Plenum Press, 1975, p. 1219-1238. 36 refs. The characteristics of the energy law are examined, taking into account property concepts and ownership, aspects of eminent domain and condemnation, the regulation of the American energy system, and questions of federal preemption as a developing trend in energy law. The environmental law is also considered along with international law problems. Attention is given to questions pertaining to law and jurisdiction with regard to plants located in the area of the territorial sea, the contiguous zone, the continental shelf, and the high seas.

G.R.

A75-44814 # An engineering assessment of the hydrogen economy. J. O. Mingle, N. D. Eckhoff (Kansas State University of Agriculture and Applied Science, Manhattan, Kan.), L. A. Rash (Beach Aircraft Corp., Wichita, Kan.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part B. New York, Plenum Press, 1975, p. 1239-1249. 12 refs.

An assessment is made of the feasibility of meeting production

and storage requirements for a hydrogen economy encompassing the East Coast of the United States. The timing of engineering facilities sufficient to insure adequate hydrogen production and distribution is shown to be critical. The manpower requirements are shown to place an extreme burden on the projected engineering resources. (Author)

A75-44815 # Ultimate energy, the ultimate fuel, and the hydrogen link in the electrical energy system. C. M. Summers. In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part B. New York, Plenum Press, 1975, p. 1251-1264.

This paper considers some of the long-range potential solutions for the energy dilemma. An estimate is given for the ultimate energy we can tolerate in the United States; the ultimate source of energy is discussed; hydrogen is suggested as the ultimate fuel and as an important link in our electrical energy system; and some thoughts are given regarding national and state energy objectives. (Author)

A75-44816 # Sources and methods for methanol production. T. B. Reed (MIT, Cambridge, Mass.) and R. M. Lerner (MIT, Lexington, Mass.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part B. New York, Plenum Press, 1975, p. 1265-1278. 9 refs.

Methanol and methyl fuel promise to be useful clean fuels for internal combustion engines and other liquid fuel applications. The various sources for synthesis of methanol are surveyed, and methods of synthesis are discussed. Various factors affecting production and use economics are listed and production cost from coal, lignin, waste and wood are estimated.

(Author)

A75-44817 # The nuclear electric economy. P. N. Ross (Westinghouse Electric Corp., East Pittsburgh, Pa.). In: Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Part B. New York, Plenum Press, 1975, p. 1287-1307.

Figures on current and projected use of energy resources and on rate of depletion of oil, natural gas, and coal reserves are given, and developments in energy-conserving technology such as heat pumps, temperature amplifiers, and improved electrochemical batteries are discussed. An energy budget is outlined for the year 2000 with a shift of emphasis from direct use of natural energy resources to their use in electricity generation. The bulk of energy needs are to be met by generation of electricity from coal and uranium.

C.K.D.

A75-45060 # A technique for calibrating photometric curves obtained in solar concentrator tests (Metodika tarirovki fotometricheskikh krivykh, poluchennykh pri solnechnykh ispytaniiakh kontsentratorov). E. V. Tver'ianovich, V. V. Madaev, Ia. T. Shermazanian, and A. V. Vartanian (Vsesoiuznyi Nauchno-Issledovatel'skii Institut Istochnikov Toka, Moscow, USSR). Geliotekhnika, no. 3-4, 1975, p. 15-19. In Russian.

A75-45061 # Investigation of a solar concentrator with hexahedral glass facets (Issledovanie solnechnogo kontsentratora s thestigrannymi stekliannymi fatsetami). A. K. Alimov, D. N. Alavutdinov, and A. Abduazizov (Akademiia Nauk Uzbekskoi SSR, Fiziko-Tekhnicheskii Institut, Tashkent, Uzbek SSR). Geliotekhnika, no. 3-4, 1975, p. 20-22. 5 refs. In Russian.

A75-45062 # A nearly perfect solar energy concentrator made up of tapered mirror facets with constant transverse curvature (Priblizhennyi kontsentrator solnechnoi energii, sostoiashchii iz zerkal'nykh klinovidnykh fatsetov s postoiannoi poperechnoi kriviznoi). A. Sh. Sharafi, G. Ia. Umarov, and A. Abduazizov (Akademiia Nauk Uzbekskoi SSR, Fiziko-Tekhnicheskii Institut; Tashkentskii Gosudarstvennyi Universitet, Tashkent, Uzbek SSR). Geliotekhnika, no. 3-4, 1975, p. 35-38. In Russian.

A75-45063 # Effectiveness of using chemically reacting working media in a solar gas-turbine installation (Ob effektivnosti

primeneniia khimicheski reagiruiushchikh rabochikh tel v solnechnoi gazoturbinnoi ustanovke). V. V. Chikovani, M. S. Dzitoev, and G. I. Krylov. *Geliotekhnika*, no. 3-4, 1975, p. 80-87. 5 refs. In Russian.

--A- thermodynamic method for analyzing the cycles of solar gas-turbine installations is developed on the basis of the fundamental laws of thermodynamics of systems of variable composition. The thermodynamic analysis shows that the cycle efficiency of solar gas-turbine installations employing a chemically reacting working fluid is appreciably higher than that of the classical Brayton cycle, particularly at low permissible temperatures of the working fluid in front of the turbine.

A75-45064 # Estimates of the reliability of energy-supply systems employing solar energy (Ob otsenkakh nadezhnosti sistem energosnabzhenia pri ispol'zovanii energii solntsa). R. B. Salieva (Tashkentskii Institut Sviazi, Tashkent, Uzbek SSR). Geliotekhnika, no. 3-4, 1975, p. 119-124. In Russian.

A method of obtaining reliability estimates, using quantitative indices is demonstrated by the example of the power supply of a relay line station equipped with solar cells, electrical accumulators, and diesel generator units. Causes of failure in the power supply from solar cells are analyzed.

V.P.

A75-45386 Ion-beam implosion of fusion targets. M. J. Clauser (Sandia Laboratories, Albuquerque, N. Mex.). *Physical Review Letters*, vol. 35, Sept. 29, 1975, p. 848-851. 14 refs.

The performance of ion-beam-irradiated fusion targets consisting of a high-density spherical shell containing DT gas has been calculated. Breakeven with 10-MeV protons irradiating 1-2-mm-diam targets can be produced with a beam current around 10 MA. Results for various target sizes and other beam particles and voltages are also discussed. (Author)

A75-45508 Solar energy - An overview. J. M. Cherne (TRW Systems, Redondo Beach, Calif.). (American Vacuum Society, Symposium on Films for Solar Energy, Yorktown Heights, N.Y., May 21, 1975.) Journal of Vacuum Science and Technology, vol. 12, Sept.-Oct. 1975, p. 975-983.

A survey of the potential of solar energy as a viable alternative for fossil fuels is presented. The present status of the six classes of solar energy conversion systems - (1) heating and cooling of buildings, (2) solar-thermal electric power, (3) photovoltaic power, (4) ocean thermal-gradient power, (5) bioconversion, and (6) wind energy conversion - is discussed and projections of energy costs are presented for each of these areas of development. (Author)

A75-45509 Outlook for Si photovoltaic devices for terrestrial solar-energy utilization. M. Wolf (Pennsylvania, University, Philadelphia, Pa.). (American Vacuum Society, Symposium on Films for Solar Energy, Yorktown Heights, N.Y., May 21, 1975.) Journal of Vacuum Science and Technology, vol. 12, Sept.-Oct. 1975, p. 984-999, 22 refs.

The feasibility of silicon solar cells for large scale energy conversion is examined. In this context the availability of silicon and the cost of fabrication of devices are discussed. It is proposed that a complete rethinking of solar array processing is necessary to achieve large reduction in production costs.

(Author)

A75-45511 Principles and applications of selective solar coatings. J. Jurisson, R. E. Peterson, and H. Y. B. Mar (Honeywell Systems and Research Center, Minneapolis, Minn.). (American Vacuum Society, Symposium on Films for Solar Energy, Yorktown Heights, N.Y., May 21, 1975.) Journal of Vacuum Science and Technology, vol. 12, Sept.-Oct. 1975, p. 1010-1015. 7 refs. NSF Contract No. C-957.

Several ways that selective coatings can be used to enhance the performance of solar energy collection systems are reviewed. Coatings discussed include vacuum-deposited, electroplated, and paint-type selective solar absorber coatings and vacuum-deposited and chemically etched antireflection and infrared reflecting coatings

for glass. The optical and physical requirements for the coatings, as well as their effectiveness at increasing solar collector performance, are discussed.

(Author)

A75-45512 Optical coatings for collection and conservation of solar energy. J. H. Apfel (Optical Coating Laboratory, Inc., Santa Rosa, Calif.). (American Vacuum Society, Symposium on Films for Solar Energy, Yorktown Heights, N.Y., May 21, 1975.) Journal of Vacuum Science and Technology, vol. 12, Sept.-Oct. 1975, p. 1016-1022.

An optical coating applied to a surface can cause radiation incident on the surface to be divided into transmission, reflection, and absorption in a prescribed manner. Thus, coatings affect the control of radiation and enhance the collection, conversion, and conservation of solar energy. (Author)

A75-45513 Solar-energy materials preparation techniques. D. M. Mattox (Sandia Laboratories, Albuquerque, N. Mex.). (American Vacuum Society, Symposium on Films for Solar Energy, Yorktown Heights, N.Y., May 21, 1975.) Journal of Vacuum Science and Technology, vol. 12, Sept.-Oct. 1975, p. 1023-1031. 90 refs. ERDA-supported research.

The application of materials to the thermal control of structures, photothermal/electrical conversion, and photovoltaic conversion are reviewed. Applications include solar and infrared reflectors, optical filters, transparent conductors, bulk semiconductor materials, semiconductor films, and selective solar absorbers. The use of thin films in many conservation and photothermal applications is presently economical, but the economics of photothermal/electrical and photovoltaic conversion is still being investigated. The means of obtaining selective solar absorbers which have a high solar absorptance and low IR emittance are discussed, and specific data on an electrodeposited black-chrome selective absorber is presented. It is shown that solar-electric generating plants must be constructed at a cost of about \$50/sq m to be competitive with other electrical generating plants, and that a meaningful impact on the electrical energy economy will require a fabrication rate of greater than 50 (Author) square miles per year.

A75-45514 Solar-energy conversion at high solar intensities. C. E. Backus (Arizona State University, Tempe, Ariz.). (American Vacuum Society, Symposium on Films for Solar Energy, Yorktown Heights, N.Y., May 21, 1975.) Journal of Vacuum Science and Technology, vol. 12, Sept.-Oct. 1975, p. 1032-1041. 22 refs.

The concentration of sunlight offers distinct advantages for solar-electrical generation either by thermal conversion or by photovoltaics. A large variety of concentration techniques are available with concentration ratios of 1-1000. Concentration is required for thermal conversion systems to attain the high temperatures needed for efficiencies in the desired range of about 25%-35%. The projected costs for some of the solar thermal systems (especially the central receiver and the fixed mirror) indicate that they could be economically competitive in the southwestern states. The southwest may be required for these high-concentration systems to overcome the main disadvantage of concentration, which is the use of the direct component of sunlight only. Other concerns of high-intensity systems are in tracking requirements, reflective surface accuracy, and material lifetimes of both the reflecting and absorbing components. (Author)

A75-45647 # A potassium topping cycle for public utility power plants. W. F. Zimmerman, G. C. Wesling, and R. J. Rossbach (General Electric Co., Evendale, Ohio). American Institute of Aeronautics and Astronautics and Society of Automotive Engineers, Propulsion Conference, 11th, Anaheim, Calif., Sept. 29-Oct. 1, 1975, AIAA Paper 75-1235. 12 p. 44 refs.

A potassium topping cycle power plant proposed for utility power is an excellent example of the effective use of prior space program development efforts. During the 1960's the government sponsored the development of nuclear powered Rankine cycle systems for the generation of power in space. Over 10,000 hours of potassium vapor turbine operation were accumulated in superalloy

systems operating in an air environment. Much additional effort and supporting technology were developed in areas which were required to support the development of metal vapor turbine space power systems. It has been suggested that the technology be used to increase the operating temperature and, thus, the thermal efficiency of utility power plants. A recent study of such systems indicates electric power can be generated at higher efficiency with controlled thermal and air pollution and with considerable conservation in coal and water resources. (Author)

A75-45648 # MHD electrical power generation from fossil fuels. K. E. Tempelmeyer (Tennessee, University, Tullahoma, Tenn.). American Institute of Aeronautics and Astronautics and Society of Automotive Engineers, Propulsion Conference, 11th, Anaheim, Calif., Sept. 29-Oct. 1, 1975, AIAA Paper 75-1236. 11 p. 8 refs.

The generation in electrical power by magnetohydrodynamic (MHD) techniques was pioneered in the U.S. in the early 1960's. At present, the major activities are underway in the U.S.S.R., the U.S., and Japan. Each of these countries now have large scale active programs for MHD central plant power generation using different fossil fuels. The effort in the Soviet Union centers about the use of natural gas; coal-fired systems are being investigated in the U.S. while Japan uses oil. All of these efforts are directed toward the development of open-cycle systems but the development problems are different because of the different types of fuel being used. This paper will review the status of these various problems and outline the prospects for their solutions. (Author)

A75-45649 # Electrochemical heat engines for direct electric power generation and energy storage. G. R. B. Elliott, W. J. Trela, and G. E. Dials (California, University, Los Alarmos, N. Mex.). American Institute of Aeronautics and Astronautics and Society of Automotive Engineers, Propulsion Conference, 11th, Anaheim, Calif., Sept. 29-Oct. 1, 1975, AIAA Paper 75-1237. 8 p. 7 refs. ERDA-supported research.

Batteries can be operated in heat engine cycles analogous to the cycles of usual mechanical heat engines but without the mechanical motion of pistons, turbines, etc. These electrochemical cycles can be used for direct generation of electric power and for storage of energy. The Los Alamos Scientific Laboratory is in the initial stages of development of such engines which can accept heat in the temperature range of 1700-900 K, then drop the temperature to the range 800-600 K while doing useful electrochemical work. These systems offer promise as topping cycles for steam turbines, and they also could be used for mine-mouth generation of electric power following in situ gasification of coal - here the rejected heat from the generation can be used in endothermic processes underground. Such processes include preliminary drying of the coal bed, frequently a necessary step in in situ gasification, as well as coal pyrolysis to produce a substitute feedstock for petroleum refineries of the future, plus gasification itself. (Author)

A75-45651 # Solar residential electrification with high performance heat engines. R. M. Salter (Rand Corp., Santa Monica, Calif.). American Institute of Aeronautics and Astronautics and Society of Automotive Engineers, Propulsion Conference, 11th, Anaheim, Calif., Sept. 29-Oct. 1, 1975, AIAA Paper 75-1239. 12 p. 45 refs.

Application of high-performance closed-cycle heat engines to solar energy conversion for residences and other buildings is considered. Stirling and recuperated Brayton cycles are investigated with the former favored due to commonality in construction with conventional small Otto cycle engines. Typical top temperatures of these cycles is near best compromise between thermodynamic efficiency vs solar collection efficiency. The overall system includes an array of sun-following paraboloidal collectors connected by sodium heat pipes. Both heat and electrical buffering, control problems, accourtements (such as heat pumps), other heat sources, and other electrical sources are examined. Analogous conversion of furnace fuel energy into electricity is considered. (Author)

A75-45656 * # Propulsion technology needs for advanced space transportation systems. J. W. Gregory (NASA, Lewis Research Center, Rocket Systems Branch, Cleveland, Ohio). American Institute of Aeronautics and Astronautics and Society of Automotive Engineers, Propulsion Conference, 11th, Anaheim, Calif., Sept. 29-Oct. 1, 1975, AIAA Paper 75-1246. 21 p. 16 refs.

Plans have been formulated for chemical propulsion technology programs to meet the needs of advanced space transportation systems during the two decades from 1980 to the year 2000. The many possible vehicle applications have been reviewed and cataloged to isolate the common threads of primary propulsion technology that will satisfy near term requirements in the first decade and at the same time establish the technology groundwork for various potential far term applications in the second decade. Two thrust classes of primary propulsion engines are apparent: (1) 5,000 to 30,000 pounds thrust for upper stages and space maneuvering; (2) large booster engines of over 250,000 pounds thrust. Six major classes of propulsion systems and the important subdivisions of each class have been identified. The relative importance of each class is discussed in terms of the number of potential applications, the likelihood of that application materializing, and the criticality of the technology needed. Specific technology programs are described and scheduled to fulfill the anticipated primary propulsion technology requirements of the period.

A75-45659 # Consideration of ultra-high temperature nuclear heat sources for MHD conversion systems. R. R. Holman, J. M. Tobin, and W. E. Young (Westinghouse Electric Corp., Pittsburgh, Pa.). American Institute of Aeronautics and Astronautics and Society of Automotive Engineers, Propulsion Conference, 11th, Anaheim, Calif., Sept. 29-Oct. 1, 1975, AIAA Paper 75-1258. 6 p. 7 refs.

The nuclear technology reactors developed and tested in the Nuclear Engine Rocket Vehicle Application (NERVA) program operated with fuel exit gas temperatures in excess of 2600 K. This experience provided a significant ultra-high temperature technology base and design insight for commercial power applications. Design approaches to accommodate fission product retention and other key prevailing requirements are examined in view of the basic overriding functional requirements, and some interesting reconsiderations are suggested. Predicted overall system performance potentials for a 2000 K MHD conversion system and reactor parameter requirements are compared and related to existing technology status. Needed verification and development efforts are suggested. A reconsideration of basic design approaches is suggested that could open the door for immediate development of ultrahigh temperature nuclear heat sources for advanced energy systems. (Author)

A75-45661 # Application of nuclear rocket technology to light weight nuclear propulsion and commercial nuclear process heat systems. G. H. Farbman and R. E. Thompson (Westinghouse Astronuclear Laboratory, Pittsburgh, Pa.). American Institute of Aeronautics and Astronautics and Society of Automotive Engineers, Propulsion Conference, 11th, Anaheim, Calif., Sept. 29-Oct. 1, 1975, AIAA Paper 75-1261. 12 p.

A75-45663 # Terrestrial and space applications of the migma controlled fusion concept. R. Ho. American Institute of Aeronautics and Astronautics and Society of Automotive Engineers, Propulsion Conference, 11th, Anaheim, Calif., Sept. 29-Oct. 1, 1975, AIAA Paper 75-1263. 6 p. 16 refs.

Approaches for the heating of ions with the aid of colliding beam technology are considered and a description is given of the self colliding beam technology and the migma principle. The utilization of the described principle for fusion reactions is discussed. In an analysis of migma space propulsion applications it was found that migma propulsion compares favorably with hypothetical fission or solar powered spacecraft. Terrestrial dd migma applications offer also a number of advantages.

G.R.

A75-45814 * Report on studies of space to earth microwave power transmission systems. A. Edwards, Jr. (Raytheon Advanced Development Laboratory, Sudbury, Mass.) and R. M. Schuh (NASA, Lewis Research Center, Space Flight Systems Study Office, Cleveland, Ohio). International Astronautical Congress, 26th, Lisbon, Portugal, Sept. 21-27, 1975, Paper 75-005. 38 p. 13 refs. Contract No. NAS3-17835.

The studies reported include a preliminary analysis, conceptual design, technical and economic evaluation, and planning for a technology development, a ground demonstration, and an orbital test program. The concept investigated involves a transmitting antenna in geosynchronous orbit which beams microwave power to a ground antenna where it is rectified to DC power. The amplitron and the klystron are considered as devices for converting DC power to RF power at microwave frequencies.

A75-45819 Deployable Symphonie solar generator. H. H. Schultz (Société Européenne de Propulsion Vernon, Eure, France) and J.-C. Vermalle (Société Nationale Industrielle Aérospatiale, Cannes, France). International Astronautical Federation, International Astronautical Congress, 26th, Lisbon, Portugal, Sept. 21-27, 1975, Paper 75-009. 13 p.

The developmental history of the Symphonie satellite solar generator is reviewed. Design restraints on the solar generator, original concepts and feasibility studies, general characteristics of the chosen design solution, development tests, qualification tests, tests on a modified launch vehicle, and verification tests are discussed. A brief description of the Symphonie telecommunications satellite as a whole precedes the discussion.

A75-45822 # Thrust vector control by magnetic field. M. Shepshelovich and Y. Manheimer-Timnat (Technion - Israel Institute of Technology, Haifa, Israel). International Astronautical Federation, International Astronautical Congress, 26th, Lisbon, Portugal, Sept. 21-27, 1975, Paper 75-027. 29 p. 7 refs.

Possibilities are discussed for the practical application of a magnetic field to the problem of thrust control and vectoring of an MHD-generator rocket engine. Two alternative techniques are considered: the introduction of 'magnetic nozzles' and the use of thermal choking. The performance of these techniques is compared analytically, and it is shown that thermal choking is more advantageous since it requires a smaller current density. Possible designs for both systems are considered, and effective thrust vectoring with solid propellants is examined.

F.G.M.

A75-45829 Economic analysis of space-based electric power generation and transmission systems. E. J. Greenblat (ECON, Inc., Princeton, N.J.). International Astronautical Federation, International Astronautical Congress, 26th, Lisbon, Portugal, Sept. 21-27, 1975, Paper 75-006. 18 p.

An economic evaluation is conducted of a space solar power station (SSPS) project considered by an American aerospace corporation. Underlying economic considerations for determining the 'cost' of electricity to users from a given power plant are discussed. An economic analysis of the initial program plan is considered along with an analysis of technology choices and the potential economic benefits of an SSPS. On the basis of the reported evaluation it is concluded that the SSPS concept can be regarded as potentially economically viable.

G.R.

A75-45875 # Storage of energy in kinetic batteries for an earth resources satellite (Stockage d'énergie sur batteries cinétiques pour un satellite de ressources terrestres). J. P. Passani. International Astronautical Federation, International Astronautical Congress, 26th, Lisbon, Portugal, Sept. 21-27, 1975, Paper ST-75-09. 39 p. 10 refs. In French.

A plan for the storage of energy (e.g., solar energy) in a rotating

flywheel is proposed. This design is especially useful for energy storage in satellites. The gyroscopic effect of the flywheel is shown to have no significant effect on the pilot-ability of the satellite. A comparison with battery-powered systems shows that satellite lifetimes are increased, satellite weights are decreased, and power supply-based satellite actuation possibilities are increased with the flywheel as compared to the Ni-Cd cells. Computer management of these systems will provide a great deal of adaptability to different energy demand patterns.

S.J.M.

A75-45885 # Space and energy - Some legal problems (Espace et énergie - Quelques problèmes juridiques). A. W. Stoebner. International Astronautical Federation, International Astronautical Congress, 26th, Lisbon, Portugal, Sept. 21-27, 1975, Paper. 15 p. In French.

Three areas of possible conflict between terrestrial and space use of energy are examined. The first area is economic evaluation of the earth by spatial means. The second concerns harnessing solar energy. Evaluation and exploitation of extraterrestrial environments and resources constitute the third category. In the first area are included meteorology, telecommunications, and remote sensing; the second category deals mainly with the installation of very large energy-converting and transmitting space stations; and the third centers around the right of a nation with advanced technology to appropriate extraterrestrial resources to the exclusion of underdeveloped countries.

A75-45893 # The utilization of space as a source of energy for the earth. S. Estradé (Barcelona, Polytechnic University, Barcelona; PROMAR S.A., Spain). International Astronautical Federation, International Astronautical Congress, 26th, Lisbon, Portugal, Sept. 21-27, 1975, Paper. 21 p. 6 refs.

A study of energy sources outside the earth is conducted in connection with the desirability to obtain a clean and practically inexhaustible source of energy for terrestrial and space applications. Attention is given to orbital helioelectric plants, the earth's magnetic field and the Van Allen radiation belts, energy in inter-stellar matter, cosmo-driven plants, the utilization of the moon, and problems of energy transportation. Juridical considerations regarding the utilization of energy from space are discussed. Stimuli for accelerating space energy research are considered along with questions related to the rivalry between states.

G.R.

A75-45903 # The satellite solar power station - A step toward the industrial use of space. P. E. Glaser (Arthur D. Little, Inc., Cambridge, Mass.). International Astronautical Federation, International Astronautical Congress, 26th, Lisbon, Portugal, Sept. 21-27, 1975, Paper 75-003. 27 p. 12 refs.

The option for using satellite solar power stations for large-scale power generation on earth, collecting and converting solar energy into microwave energy, transmitting it to the earth's surface, and transforming it into electricity is reviewed. The current state of technology and the necessary developments for accomplishing these functions are discussed, and the results of recent microwave transmission and rectification demonstration tests are mentioned. The requirements for earth-to-orbit transportation are presented. Considerations are given to cost projections, resource use, and economic comparisons. Environmental issues, including impact of waste heat release, space vehicle exhaust, noise pollution and location of antenna sites, are listed. Biological effects and radio frequency interference are explored. The time frame for accomplishing the operational system is outlined. (Author)

A75-45920 Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, University of Delaware, Newark, Del., August 18-22, 1975, Record. Conference sponsored by IEEE, AIChE, ANS, SAE, ACS, AIAA, ASME, International Solar Energy Society, American Power Conference, and Electrochemical Society. New York, Institute of Electrical and Electronics Engineers,

Inc., 1975. 1557 p. \$50.

The topics considered are related to solar buildings, fuel cells, liquid metal fast breeder reactors, energy storage and components, automotive engines, solar heating and cooling, urban systems, nuclear power systems, and thermionic energy conversion. Attention is also given to photovoltaic conversion, lithium batteries, topping cycles, unique engines, a review of U.S. government and foreign energy programs, molten salt/solid electrolyte batteries, synthetic liquid fuels from coal and oil shale, energy conservation, thermoelectric systems, solar utilization, aqueous batteries, alternative fuels, isotope power systems, Stirling cycle engines, wind systems, space solar systems, Brayton cycle systems, hydrogen, biomedical power, space and remote power systems, and heat pipe applications.

G.R.

A75-45921 Technical and economic evaluation of solar heating and cooling of buildings. R. O. Turbyfill and A. D. Cohen (General Electric Co., King of Prussia, Pa.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 1-6. NSF Grant No. C-855.

Aspects of weather data development for the evaluation are considered, taking into account the division of the country into separate solar climate regions and business economic areas. A system of seventeen building models representing the various categories of buildings was selected. The reference buildings were used as a basis for the reported evaluation studies. It was found that solar heating and cooling is technically feasible now, and with the advent of mass production in hardware could become economically viable in the early 1980s. Significant savings in fossil fuels would occur by the end of the century.

G.R.

A75-45922 Solar One, two years experience. K. W. Böer, J. H. Higgins, and J. K. O'Connor (Delaware, University, Newark, Del.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 7-13. 9 refs. Research supported by the Delmarva Power and Light Co., Pennsylvania Power and Light Co., Atlantic City Electric Co., Baltimore Gas and Electric Co., Tampa Electric, Ohio Edison, Southern California Edison, and American Public Power Association.

The Delaware Solar One laboratory has been in operation for approximately two years and results of its solar thermal and electrical system are reported. It could provide substantially in excess of 50% solar heat and shows the feasibility to provide up to 15 kwh per clear summer day of its electric energy needs from CdS/Cu2S solar cells of approximately 4% conversion efficiency (620 sq ft roof coverage is simulated). These encapsulated cells have shown no degradation. Highly efficient solar collectors are developed with air as the heat transport fluid. The thermal storage uses heat of fusion and has maintained an acceptable storage capacity throughout its operation. An analysis summary is presented with key data points of the system.

A75-45923 Operational experience - Solar heating a Boston school. J. E. Notestein (General Electric Co., King of Prussia, Pa.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 14-18. 7 refs.

The solar heating system considered consists of a solar collector array, a thermal energy storage tank, two air heating coils, two pumps, two heat recovery/dump heat exchangers, various motorized valves, piping, instrumentation, and control devices. On the basis of an evaluation of the operational experience with this heating system it is concluded that solar heating is effective and feasible in the Boston area. A solar heating system should provide over 2/3 of the heating requirements.

G.R.

A75-45924 A large mechanical contracting corporation solar heats its own offices. T. A. King, E. F. Nerf, Jr. (Mueller Associates, Inc., Baltimore, Md.), and W. A. Touchard, Jr. (Poole and Kent Co., Baltimore, Md.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 19-22.

The considered solar heating system provides a minimum of 50 per cent of the heating requirements of a 1500 square foot building. Commercially available equipment is used. The collector system employs water as the working fluid. Problems of freeze protection are considered along with details concerning the heat storage arrangements and the space heating system. Questions concerning the cost effectiveness of the solar heating system are investigated, taking into account costs for competitive heating systems and the importance of a reduction in the price of solar collectors.

G.R.

A75-45925 The nation's first private industrial solar heating system - General Electric's Valley Forge Space Center. W. J. Haggerty (General Electric Co., Valley Forge, Pa.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 23-28.

The solar heating system collector array is installed on a portion of the roof of the building. The solar collectors face southward with a tilt of 45 degrees from the vertical. The array consists of 203 flat plate collectors with a surface area of 4872 square feet. Aspects of system design are discussed along with structural details, the collector array, the mechanical components, and the control system. Instrumentation is provided to analyze system performance, obtain data on specific system components, evaluate variations in collector configuration, and obtain detailed solar collector performance data.

A75-45926 Solar heating and cooling of Army buildings. W. R. Terrill, A. Kirpich (General Electric Co., King of Prussia, Pa.), and D. C. Hittle (U.S. Army, Construction Engineering Research Laboratory, Champaign, III.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 29-37.

The U.S. Army initiated a study program to evaluate the potential application of solar energy for the heating and cooling of Army buildings. The program includes the definition of the preliminary design of a solar heating system to be retrofitted into an existing building. A system concept is also to be defined for a combined solar heating and cooling system for an incorporation into a new building. Details of the study program are discussed, taking into account the characteristics of the selected buildings, the analysis methods, and details regarding the preliminary design of the considered systems.

A75-45927 An integrated solar heated and cooled mobile home. S. L. Macklis and S. A. Haas (General Electric Co., Valley Forge, Pa.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 38-42.

The primary goal of the considered program was to use the solar energy data and technology base available from existing solar installations to demonstrate the feasibility of mobile home heating and cooling using solar energy. Major accomplishments of the first phase of the program include an overall system study of a solar heating and cooling system designed specifically for use with a mobile home. The solar collector system is discussed along with the heating and cooling system, the control system, and aspects of instrumentation and data acquisition. A preliminary economic analysis is also conducted.

A75-45929 The economic incentive for introducing electric storage devices into the national energy system. C. Braun, E. A.

Cherniavsky, and F. J. Salzano (Brookhaven National Laboratory, Upton, N.Y.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 82-90. 10 refs. ERDA-sponsored research.

Requirements for electric utility energy storage devices are related to the variations in the demand for electricity on a daily, weekly, and seasonal basis. No specific device is identified in the reported study and a 'black box' storage device having a characteristic efficiency and cost is considered. It is pointed out that a significant analysis must take the entire electric utility system into account. This condition is satisfied by the linear programming model which is discussed. The model encompasses the entire energy system including all alternative resources and both electric and nonelectric demands. A break-even capital cost study for electric storage devices is described.

G.R.

A75-45930 Energy storage by flywheels. R. I. Fullman (GE Research and Development Center, Schenectady, N.Y.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 91-100. 45 refs.

The purpose of this report is to estimate the best performance and cost effectiveness that are likely to be attainable in the storage of energy by flywheels. Its emphasis is on identifying safe design values for the properties of candidate rotor materials, and on the relationship of these properties to the rotor's maximum energy storage density. Approximate allowance is made for the weight, volume, and cost of components other than the rotor itself, but no attempt is made to provide an independent assessment of requirements for bearings, seals, vacuum pumps, etc. Some areas for further development are suggested, and applications are identified in which flywheel energy storage is most likely to be useful. (Author)

A75-45931 Energy storage by high-pressure, moderate-temperature electrolytic techniques. H. J. Allison and W. L. Hughes (Oklahoma State University, Stillwater, Okla.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 104-110. 7 refs. NSF Grant No. GI-39457.

General design constraints for energy storage systems are considered along with basic information related to the hydrogenoxygen electrolytic reaction. Advantages of high-pressure and elevated temperature operation are examined. Conventional high-pressure, moderate temperature hydrogen-oxygen electrolysis cells consist essentially of parallel plate electrodes separated by a solution of an electrolyte, usually KOH. Certain problems with these cells and approaches to overcome the difficulties are discussed. A description is given of an electrolysis system which was designed to minimize the considered problems. The system can operate at a maximum pressure of 3000 psi and a maximum temperature of 400 F.

G.R.

A75-45932 Thermal energy storage. M. Telkes (Delaware, University, Newark, Del.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 111-115. 14 refs.

Various thermal storage materials are compared and their theoretical and actual performance limitations are summarized. Solid/liquid phase change reactions (heat of fusion materials, or heat sinks) are described, especially in solar heating applications. Inexpensive materials are available that are nontoxic, noncorrosive and nonflammable. The problems of supercooling, or of unwanted labile crystal forms can be controlled by heterogeneous nucleating materials or devices. Results are presented with sodium thiosulfate pentahydrate melting around 49 C (120 F). Its heat of fusion is 50 kcal/kg (90 Btu/lb); its volumetric heat storage capacity is 9,300

Btu/cu ft. Estimated cost of the material for the storage of one million Btu is \$770, additional cost of containers increases this to about \$1,500 per million Btu. The result of heat transfer tests are reported as obtained in a calorimetric device. This material has been used in Solar-One, the experimental solar building at the University of Delaware.

(Author)

A75-45933 Application of rocket engine technology to energy. A. D. Lucci and D. R. Hodson (Rockwell International Corp., Rocketdyne Div., Canoga Park, Calif.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 116-124

A description is given of a compact steam generator (CSG) designed for peak shaving for a large utility. It supplies a nominal steam load of 132,000 lb/hr at 330 psia and 600 F, and burns natural or propane gas with oxygen giving a nonpolluting exhaust. It is pointed out that the concept stems principally from the technology developed for rocket engine thrust chambers. Liquid fuel and oxidizer are introduced into a combustion chamber where they are burned at elevated pressure. A general physical description of the CSG system installation is provided. Attention is given to questions of equipment design and system operation.

G.R.

A75-45934 Advanced heat transfer methods for geothermal power applications. L. Awerbuch and S. C. May (Bechtel, Inc., San Francisco, Calif.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 125-130. 5 refs.

A binary cycle for the extraction of geothermal energy is considered. Heat from the fluid of a geothermal well is transferred to a secondary fluid. The secondary fluid is heated to a supercritical condition and expanded through a turbine to generate electricity. Studies concerning the heat exchanger requirements for a 10-MW (net) electrical power generating plant were conducted. Other considerations being equal, the cost of the heat transfer equipment can be minimized by utilizing high overall heat transfer coefficients. Attention is given to the advantages obtained by employing the overall heat transfer coefficients of various heat transfer methods in preheaters, evaporators, and condensers.

A75-45936 Solar heat pump comfort heating systems. T. A. V. Cassel (Bechtel, Inc., San Francisco, Calif.), H. G. Lorsch (Franklin Institute Research Laboratories, Philadelphia, Pa.), and N. Lior (Pennsylvania, University, Philadelphia, Pa.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 162-170. 25 refs. NSF Grant No. GI-29729.

This paper is addressed to the development of an advanced and energy-efficient heating system which integrates solar energy collectors, a thermal energy storage device, a vapor compression heat pump, an auxiliary heat source, controls, and a residence. Using simulation programs written in interactive APL computer language, two proposed solar heat pump systems were modeled for a 1500 square foot Philadelphia, Pennsylvania residence, and were compared to models of direct solar and conventional heating systems over an entire heating season. Comparisons were made on three criteria: resource energy utilization efficiency, effect on electric utilities, and consumer investment incentives. (Author)

A75-45937 Optimum properties of working fluids for solar powered heat pumps. L. I. Stiel, R. A. Allen, and K. P. Murphy (Allied Chemical Corp., Specialty Chemicals Div., Buffalo, N.Y.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 171-177. 7 refs. NSF-supported research.

In this study, the effect of the thermodynamic properties of the working fluid on the performance of a solar powered heat pump has been analyzed. The system consists of a vapor compression cooling or heating cycle combined with a Rankine power cycle. Values of the input fluid properties which result in optimum efficiencies have been determined for upper temperatures of 180 and 300 F. Cycle and overall efficiencies have also been calculated for approximately 20 halocarbons and other substances. The fluids are classified by boiling points, and the results are tabulated for operation both in cooling and heating modes. Plots are also presented indicating the variation of the efficiencies with cycle parameters. (Author)

A75-45938 Study on parameter variations for solar powered lithium bromide absorption cooling. W. Bessler and C. N. Shen (Rensselaer Polytechnic Institute, Troy, N.Y.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 178-185. 6 refs.

The investigation reported is concerned with the use of solar energy for powering an absorption-cycle refrigeration system for the cooling of buildings. The cooling system considered employs a lithium bromide water solution. Questions of system operation were studied with the aid of a mathematical model. The computerized simulation procedure was used in connection with realistic solar heat supply and cooling load data. The solution of the problem-system model is discussed, taking into account initial conditions, aspects of concentration and flow, questions of storage and mixing, and the cooling performance. Problems of systems control are also explored. It is concluded that the concept of latent heat storage, as investigated, appears to provide a feasible approach for the cooling of buildings.

A75-45939 Design and operation of a solar-powered turbocompressor air-conditioning and heating system. F. R. Biancardi, M. D. Meader, W. A. Blecher, and J. B. Hall (United Technologies Research Center, East Hartford, Conn.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 186-194, 18 refs. ERDA-supported research.

The turbocompressor Rankine-cycle system concept for solar-powered heating and cooling utilizes a single working fluid and a common condenser for both the power and cooling loops. Hot fluid from the solar collector/storage system is used to vaporize a working fluid in the vapor generator of the power loop. The vapor is expanded through a turbine which produces mechanical power to drive a compressor. Questions of cycle selection are discussed along with the characteristics of ejector systems, mechanical expander-compressor systems, single-fluid systems, dual-fluid systems, and problems of working fluid selection.

A75-45940 Development of a 540-sq-ft prototype faceted fixed mirror solar concentrator. J. R. Williams (Georgia Institute of Technology, Atlanta, Ga.) and S, F. Hutchins (Scientific Atlanta, Inc., Doraville, Ga.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

Rev York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 195-201. 8 refs. NSF Grant No. G1-43936.

A new type of solar collector has been assembled and tested at Georgia Tech which promises to provide heat at about the same cost as commercially available flat-plate collectors, but at a much higher temperature. The higher temperature permits higher COP air conditioning and heat pump operation, with a resulting decrease in the collector area required and lower air conditioning equipment costs as compared with systems using flat plate collectors. In addition, this focusing collector can supply low-grade steam and other industrial process heat at temperatures to several hundred degrees Centigrade.

Using air as the heat-transfer medium, collection temperatures in excess of 400 C have already been achieved using the 540-sq-ft FFMC at Georgia Tech. These Data indicate that an average collection efficiency of at least 50% at the design temperature of 260 C should be achieved using an improved heat exchanger currently under construction.

(Author)

A75-45941 A computer program to determine the optimum configuration of solar assisted building heating and cooling systems based upon life-cycle cost. D. R. Fairbanks (Charles Stark Draper Laboratory, Inc., Cambridge, Mass.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 202-209, 5 refs.

A75-45942 Solid polymer electrolysis fuel cell status report. L. J. Nuttall (General Electric Co., Aircraft Equipment Div., Wilmington, Mass.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 210-217.

The electrolyte used in current solid polymer electrolyte (SPE) fuel cells is a thin (10 mil) sheet of a perfluoro linear polymer to which sulfonic acid radicals have been chemically linked. Ionic conductivity results from the mobility of hydrated hydrogen ions. The SPE fuel cells, which were first used operationally in the Gemini spacecraft, have been improved in recently completed fuel cell technology programs. Enhanced performance and reduced manufacturing costs make the solid polymer electrolyte fuel cell an attractive candidate for many ground power applications in addition to its continued use in the aerospace field.

G.R.

A75-45943

Phosphoric acid fuel cell stack development. S. G. Abens, B. S. Baker, R. DiPasquale, and I. Michalko (Energy Research Corp., Danbury, Conn.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 218-221, Grant No. DAAK02-74-C-0367.

It is pointed out that most fuel cell systems are currently probably not economically feasible because of the way components are manufactured. A description is given of techniques which have been developed to reduce the costs of fuel cell manufacture, taking into account the production of three key fuel cell components. Attention is given to the manufacture of the electrodes, the acid fuel cell matrix, and the bipolar plates.

G.R.

A75-45944

1.5 and 3KW indirect methanol-air fuel cell power plants, S. S. Kurpit (U.S. Army, Mobility Equipment Research and Development Center, Fort Belvoir, Va.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 222-228.

A 1.5KW methanol-air fuel cell power plant was completed and tested during the early part of 1974. The power plant consists of two major subsystems. The fuel conditioning subsystem converts the aqueous methanol feed to hydrogen, and the fuel cell subsystem converts the hydrogen to electrical power. The fuel cell subsystem consists of a phosphoric acid electrolyte cell stack. The phosphoric acid electrolyte is contained in a soft porous phenolic resin mat between the electrodes. The success encountered with this unit provided the basis for a decision to design, fabricate, and evaluate a 3KW power plant.

G.R.

A75-45946 The EPA-Van - A clean energy system for the home. S. J. Bunas (U.S. Environmental Protection Agency, Control Systems Laboratory, Research Triangle Park, N.C.), M. F. Collins, and P. L. Terry (Engelhard Minerals and Chemicals Corp., East Newark, N.J.). In: Energy 10; Annual Intersociety Energy Con-

version and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 241-246. 5 refs.

In the design of the EPA-Van system three approaches were combined for reducing air pollution and conserving energy. These approaches are related to better home construction, the use of solar energy, and a utilization of new, low-polluting devices such as fuel cells and catalytic appliances. Heavy insulated walls, floors, and ceiling are to be employed in the construction of the home. The solar energy system includes a collector mounted on the roof. A solution of ethylene glycol and water is heated as it circulates in tubes. The solar energy system is integrated with an electrically driven heat pump.

G.R.

A75-45947 The annual cycle energy system. H. C. Fischer. In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 251-259. Research sponsored by the U.S. Department of Housing and Urban Development and Federal Energy Administration.

The annual cycle energy system (ACES) obtains heat by freezing water during the heating season. A one-direction heat pump is used to deliver the heat to the building. The ice is used to provide air conditioning during the summer. The cycle is repeated each year and the only major energy expenses are related to the cost of operating the heat pump during the winter. Questions concerning the provision of hot water are discussed along with problems regarding the ice freezing coils. Attention is also given to ice bin requirements, ice bin structures, the heat leakage into an ice bin, the application of ACES to large central systems, and economic considerations.

G.R.

A75-45948 Design study for a coal-fueled closed cycle gas turbine system for MIUS applications. A. P. Fraas, R. S. Holcomb, M. E. Lackey, and J. J. Tudor (Oak Ridge National Laboratory, Oak Ridge, Tenn.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 260-268. 10 refs. Research sponsored by the U.S. Department of Housing and Urban Development.

The general requirements of a modular integrated utility system (MIUS) are examined. Probably the most notable differences when compared to central station applications are related to the low power output and the need for semiunattended operation. System design conditions are presented in a table and the development of a conceptual design is discussed. A description of a furnace design is provided, taking into account questions of fabrication and accessibility, the economizer, aspects of tube differential thermal expansion and thermal stress, bed pulsation, tube vibration problems, and the furnace casing construction. Questions of system design are also considered, giving attention to the turbine-generator unit, ducting between the furnace and the gas turbine, and the coal feed system.

A75-45949 * Application of fuel cells with heat recovery for integrated utility systems. V. Shields (NASA, Johnson Space Center, Houston, Tex.) and J. M. King, Jr. (United Technologies Corp., Power Systems Div., Windsor, Conn.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 278-281.

This paper presents the results of a study of fuel cell powerplants with heat recovery for use in an integrated utility system. Such a design provides for a low pollution, noise-free, highly efficient integrated utility. Use of the waste heat from the fuel cell powerplant in an integrated utility system for the village center complex of a new community results in a reduction in resource consumption of 42 percent compared to conventional methods. In addition, the system has the potential of operating on fuels produced from waste materials (pyrolysis and digester gases); this would provide further reduction in energy consumption. (Author)

A75-45950 Parametric study for a pyrolytic system for production of fuels from agricultural and forestry wastes. J. W. Tatom, A. R. Colcord, J. A. Knight, L. W. Elston, P. H. Har-Oz (Georgia Institute of Technology, Atlanta, Ga.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 282-289. U.S. Environmental Protection Agency Contract No. 68-02-1485.

A75-45951 * The UF6 Breeder - A solution to the problems of nuclear power. J. R. Williams, J. D. Clement, and J. A. Rust (Georgia Institute of Technology, Atlanta, Ga.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 308-313. 28 refs. Grants No. NsG-7067; No. NsG-1168.

One of the major advantages of uranium hexafluoride reactors for power generation is the simplified fuel reprocessing scheme which the gaseous fuel makes possible. Critical experiments related to the development of the reactors for electric power generation are discussed along with UF6 breeder reactor studies. Previous energy conversion studies are reported, taking into account gas turbine power plants, thermionic conversion, and MHD conversion. Thermodynamic cycle analyses show that high efficiencies can be achieved using UF6 as the working fluid for Rankine or Brayton cycles without requiring excessive temperatures.

G.R.

A75-45953

Thermal power conversion systems for fusion plants. P. H. Sager, Jr. (General Atomic Co., San Diego, Calif.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 320-328. 27 refs.

The utilization of the energy provided by a fusion reactor would involve the extraction of thermal energy from the reactor blanket and the conversion of this heat into usable electrical energy. Coolants which have been considered include water, liquid metals, gases, and molten salts. The merits of several types of gases and liquid metals are considered. Various types of power conversion systems are compared, taking into account thermal efficiency, system complexity, inherent safety, development requirements, projected availability, projected reliability, projected specific capital cost, and improvement potential.

A75-45954 The growth of thermionic energy conversion. G. N. Hatsopoulos and F. N. Huffman (Thermo Electron Corp., Waltham, Mass.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 342-350. 36 refs.

A thermionic energy converter converts heat into electricity without an employment of moving parts. Thermionic conversion can be used with either fossil fuel, solar energy, or nuclear energy sources. The basic principles of thermionic energy conversion are examined, taking into account a hydropower analogy, the space charge problem, and the barrier index. The evolution of thermionic technology is considered. Prospects of thermionic conversion methods for the future are discussed, giving attention to performance improvements and applications.

G.R.

A75-45955 * The ERDA thermionic program. G. A. Newby (ERDA, Space Nuclear Systems Div., Washington, D.C.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 351-355. NASA-ERDA-sponsored research. A rationale for increased Federal support of thermionic research is considered and the objectives and milestones of the thermionic program of the U.S. Energy Research and Development Administration (ERDA) are examined. The ERDA program is to provide very high specific power systems needed for planned future NASA nuclear electric propulsion missions. Another objective is the enhancement of the overall thermal conversion efficiency of the present utility power plants from approximately \$5% to 50% or more. Attention is given to key problem areas, taking into account inadequate analytical tools, the reduction of the plasma arc-drop losses, aspects of hot shell materials development, and the coordination of the participating groups programmatic activities.

A75-45956 NASA thermionic converter research and technology program. J. G. Lundholm (NASA, Office of Aeronautics and Space Technology, Research Div., Washington, D.C.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics

Engineers, Inc., 1975, p. 356-360.

This paper describes the NASA/ERDA research and technology program that was initiated in mid-FY 1974 with the objective of doubling the efficiency of thermionic power conversion with decreased emitter temperature. Also discussed are the potential uses of thermionic power conversion systems. Emphasis in this paper is placed on potential space applications, especially nuclear-electric propulsion (NEP). Possible development schedules are shown that would allow NEP systems to be ready for use in the 1990 time period for missions to the outer planets. (Author)

A75-45957 * Electrodes for thermionic energy conversion. F. Rufeh, A. H. Sommer, and F. N. Huffman (Thermo Electron Corp., Waltham, Mass.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 361-366. 5 refs. NASA-supported research; Contract No. AT(11-1)-3056.

Problems concerning an application of thermionic energy conversion methods are related to the high heat source temperatures currently required for practical power densities and efficiencies. A description is given of advances made in the development of improved emitter and collector surfaces as a basis for the reduction of operating temperatures. The controlled addition of oxygen has resulted in a considerable improvement of emitter performance. Improvements in converter performance have been obtained by a reduction of the collector work function. Attention is given to fundamental studies, simulated converter environment tests, and variable spacing converter experiments. G.R.

A75-45960 Collector work function improvements and the development of low temperature thermionic converters. M. v. Bradke and R. Henne (Deutsche Forschungs- und Versuchsanstalt für Luft- und Raumfahrt Institut für Energiewandlung und Elektrische Antriebe, Stuttgart, West Germany). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 382-386. 16 refs.

A new technique for measuring the work functions of solar thermal collectors in a vapor atmosphere where a dynamic equilibrium exists between adsorption and desorption has been applied to collectors in Ba or Cs vapors. The most significant results were obtained with Cs adsorption on oxidized electrode surfaces. On oxidized tungsten, for instance, a stable surface with a minimum work function value of about 1.05 eV (lower than for pure tungsten) was produced. Thus 1.2 eV should be the work function of a Mo-collector in operating, low-temperature, low-pressure Cs-diodes by means of the saturated-back emission.

A75-45961 CdS/Cu2S solar cells, their potential and limitations. K. W. Böer, H. C. Hadley, Jr., J. E. Phillips, and A. Rothwarf

(Delaware, University, Newark, Del.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 387-391. NSF Grant No. AER-72-03489.

A review is given of typical CdS/Cu2S solar cells, the physics of the cell operation and possible limiting factors. Indications are given for the potential of these cells in respect to possible conversion efficiencies (in excess of 15%), life expectancies (in excess of 20 years), and production yields (in excess of 90%, within a 1% efficiency band).

(Author)

A75-45962 Design considerations in Schottky solar cells. W. A. Anderson, A. E. Delahoy, and S. M. Vernon (Rutgers University, New Brunswick, N.J.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 400-403. 11 refs. Research sponsored by Exxon Corp., Rutgers University, and NSF.

Schottky solar cells have been fabricated using Cr Schottky metal on p-type silicon. AMI sunlight efficiency of 6-9.5% has been measured on cells 1-3 sq cm in area. Computer studies predict a quantum efficiency of 0.71 for the Schottky cell, which compares well to experimental data from 0.35 to 1.1 microns. Increased temperature decreases open circuit voltage by 2.5 mV/C and fill factor by 0.4%/C similar to previously published data on p-n silicon cells. Performance degradation with temperature cycling to 120 C has not been detected. Proper contact design and a 20 ohm/sheet Schottky metal sheet resistance produce a 0.21 ohm total resistance for a 4-finger cell. (Author).

A75-45963 Concentrated photovoltaic power generation systems. J. P. Spratt and R. F. Schwarz (GE Space Sciences Laboratory, King of Prussia, Pa.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 404-412. 8 refs.

It is shown theoretically that concentration of sunlight reduces the cost of terrestrial photovoltaic power conversion systems, as long as cell series resistance can be substantially reduced below present levels. Heterojunctions are in principle suitable for achieving this lowered resistance; a new type of heterojunction has been proposed which will be capable of reducing the resistance by a factor of 10 or more. The adoption of such a device could result in a thousandfold increase in energy concentration and a corresponding decrease in the cost of the photovoltaic conversion systems.

S.J.M.

A75-45964 The practical lithium/poly-carbonmonofluoride battery system. M. Fukuda and T. Iijima (Matsushita Electric Industrial Co., Ltd., Central Research Laboratories, Kadoma, Osaka, Japan). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 413-417. 9 refs.

Lithium/poly-carbonmonofluoride cells of both cylindrical and button types have been developed for practical applications. These cells have energy densities about five times as high as those of conventional carbon-zinc batteries. By the use of an improved LiBf4/B.L + THF electrolyte, high discharge performance can be obtained at very low temperatures (0 C). Cell potentials for these devices are in the 3-volt range. They have the additional advantages of flat discharge characteristics, long shelf life, and ease of manufacture.

A75-45972 Topping cycle applications of thermionic conversion. F. N. Huffman, T. O. P. Speidel, and J. P. Davis (Thermo Electron Corp., Waltham, Mass.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Insti-

tute of Electrical and Electronics Engineers, Inc., 1975, p. 496-502. 11 refs. Contract No. AT(11-1)-3056.

Increased efficiency of electric power plants can be expected to come primarily from topping Rankine cycles with advanced conversion systems which utilize the thermodynamic availability between the heat source temperature and the conventional utilization temperature. Thermionic converters are an attractive topping possibility since they are static and modular, and have the potential of high efficiency. Studies of incorporating thermionic converters to top fossil fuel power plants have been initiated with the goal of minimum perturbation to conventional systems. Placement of the converters on the water wall, superheater and reheater gives a projected plant efficiency of 46 percent (compared to a base plant efficiency of 36 percent). The reject heat from the thermionic converters can also be coupled to the steam generating components via air convection. This arrangement simplifies many practical problems. Initial studies indicate that efficiencies of over 50 percent are possible with this arrangement. (Author)

A75-45973 * Thermionic topping of electric power plants.

E. J. Britt, G. O. Fitzpatrick, and N. S. Rasor (Rasor Associates, Inc., Sunnyvale, Calif.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

Rew York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 503-512. 17 refs. ERDA-NASA-sponsored research.

The most likely use of thermionic conversion is in the form of a topping cycle combined with a steam-turbogenerator plant. A specific reference system is chosen in which the thermionic topping cycle occurs in thermionic heat exchangers referred to as large, modular thermionic units to which heat is transferred from a separate heat source and which reject their heat to a conventional steam turboelectric system. Results of analysis show that the performance and cost criteria for practical thermionic topping of large electric power plants are well within the reach of demonstrated and foreseeable converter capabilities. Thermionic topping has many significant advantages over unconventional cycles proposed for topping applications, including level of demonstrated and projected performance and lifetime, development time, and design simplicity.

A75-45974 Conceptual design and economics of an MHD pilot plant. P. D. Bergman, J. I. Joubert, D. Bienstock (ERDA, Pittsburgh Energy Research Center, Pittsburgh, Pa.), and K. D. Plants (ERDA, Pittsburgh Energy Research Center, Pittsburgh, Pa.; U.S. Bureau of Mines, Morgantown, W. Va.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 513-523, 46 refs.

Cycle analyses and preliminary cost estimates are presented for two proposed design configurations of a 300 MWT coal-burning, open-cycle magnetohydrodynamic pilot plant. Cycle efficiencies ranged from 43 to 46% with a basic pilot plant cost of \$98 to \$114 million. A directly fired design option is recommended as the preferred path to pursue, because it is completely coal-based, and avoids the large-scale utilization of scarce and expensive clean liquid and gaseous fuels for power generation. Related topics including the use of oxygen enrichment, provision for a back-up system, and pilot plant scale-up are discussed. (Author)

A75-45977

High-efficiency electrochemical plant. M. S. S. Hsu, W. E. Morrow, Jr., and J. B. Goodenough (MIT, Lexington, Mass.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 555-563. 24 refs. USAF-sponsored research.

Preliminary engineering analysis indicates that high-temperature

(1200-1500 K) electrolysis of water and recombination of the products in a medium-temperature (530 K) fuel cell can achieve a practical efficiency exceeding 50% at an acceptable cost. A solid electrolyte is chosen for the electrolytic cell. The Bacon fuel cell, which offers high efficiency and automatic replenishing of water vapor into the cycle, is presently a unique choice in realizing a high-efficiency electrochemical cycle. Both high-temperature, gas-cooled reactors and conventional combustion processes were taken as heat sources. Unconventional heat sources such as concentrated solar energy can also be used. A regenerative counterflow heat exchanger and a waste-heat power plant serve as the essential energy-conserving devices. An important feature of this cycle is the flexibility of operation that can be achieved by adding hydrogen storage. Switching among power-generating, load-averaging, and hydrogen-generating modes can then be done by simple gas-flow valves.

(Author)

A75-45978 Study of an electrofluidic generator. R. Pape (Illinois Institute of Technology, Chicago, III.), S. Hong, and S. L. Soo (Illinois, University, Urbana, III.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 564-568. 15 refs. NSF-supported research.

An electrofluidic generator combines an electrofluidynamic (EFD) generator and a fluidic oscillator to produce power from the kinetic energy of a gas. Based on an original disclosure of Pape, the study shows feasibility of an electrofluidic generator to produce ac at high voltage. Since an ac power source is readily transmitted and integrated to an existing power system, the electrofluidic generator makes possible large-scale power generation via EFD. The electrofluidic system can convert energy efficiently at moderate temperatures from nuclear or chemical sources. A most immediate application is for utilizing the fines of coal produced by automated mining and hoisting system to produce low-cost electric power without the need for water.

(Author)

A75-45979 Dielectric power conversion. J. E. Drummond (Maxwell Laboratories, Inc., San Diego, Calif.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. L. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 569-575. 8 refs.

If two changes can be wrought in the way thermal energy is converted to electrical energy in capacitors, the efficiency of dielectric power conversion (DPC) could be increased by three orders of magnitude becoming a new resource for development of total power conversion systems. The needed changes are (1) replacement of arbitrary thermal cycles by a large-scale Carnot cycle using electrical charge as the working fluid, and (2) replacement of the single cell dielectric power converter by a stack of such cells separated by thermal switches through which heat cascades. Means of effecting these changes are discussed. Details of 60 Hz operation of a single DPC from a steady heat source are given showing electrical power output density of 5 watts per gram of dielectric. The limiting efficiency of cascaded dielectric converters (CDC) is shown to be about 47%. A combined system using a CDC as a bottoming cycle for a gas turbine might achieve 57%. The R & D needed to bring these partly tested principles to engineering and economic reality are discussed. (Author)

A75-45980 The selection and use of energy storage for solar thermal electric application. J. E. Raetz, C. R. Easton, and R. J. Holl (McDonnell Douglas Astronautics Co., Huntington Beach, Calif.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 576-582. NSF-supported research.

This study summarizes research work done in establishing economic guidelines for candidate energy storage systems (thermal and electrical) and identifies economically attractive concepts. A

procedure is proposed for assessing the impact of various energy impact concepts in terms of their influence on plant economics. It is shown that the use of thermal storage can reduce the annual cost of electricity produced by a solar plant, provided an inexpensive method is adopted. In this respect, a thermal storage system using an intermediate heat transfer fluid is functionally outlined. It is found that in addition to merely storing thermal energy for deferred operation, the described system can be used to minimize many of the undesirable transients that would otherwise be imposed on the turbine. Improvement in plant efficiency by means of thermal storage concepts using elevated temperature (over 600 F) and two-temperature storage did not offset the added costs related to the higher-temperature fluid and extra equipment.

A75-45981 Solar-heated-air turbine generating systems. P. O. Jarvinen (MIT, Lexington, Mass.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 583-592. 8 refs. Research sponsored by the Massachusetts Institute of Technology and U.S. Air Force.

The feasibility of large-scale solar electrical power generation using open-cycle heated air turbines in conjunction with a towermounted, pressurized, central receiver/heliostat system is investigated. Such a system requires no cooling towers and may be sited away from cooling water supplies. A regenerative open cycle/solar gas turbine approach is chosen since it offers higher overall thermal efficiency than a simple cycle and because peak efficiency is achieved at a pressure ratio of about 4 to 1, which minimizes design considerations of the pressurized receiver. The feasibility of the heated air receiver is demonstrated and structural design, heat transfer and efficiency aspects of a windowless cavity receiver which provides 1800 F heated air are discussed. It is concluded that a central receiver solar thermal heated air gas turbine power plant is feasible and that future efforts should be directed at the development of the most effective receiver possible in order to minimize heliostat collector field area and system cost.

A75-45982 The design of a solar cavity steam generator for electrical power generation. T. Tracy and T. Howerton (Martin Marietta Aerospace, Denver, Colo.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 593-600. NSF Grant No. AER-74-07570.

The preliminary design, principles of operation, and performance analysis of a 100,000-kWe solar power plant are presented. The power generation station is surrounded by eight mirror fields, with a tower-mounted-cavity steam generator at the south end of each field. Control concepts and effects of thermal cycling on component design are discussed. A model of the cavity, compatible with the French solar test facility capability of 1000 kWt, is designed and analyzed in detail. Major conclusions are that a solar cavity radiation receiver with a thermal efficiency (heat into steam/solar energy into cavity) of more than 95% can be designed without using a window in the aperture, and that thermal computer programs developed for space programs are highly valuable tools in the design and analysis of solar power plants.

A75-45984 Ground based solar energy technology advances. G. R. Woodcock and D. L. Gregory (Boeing Aerospace Co., Seattle, Wash.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 607-612.

Competitive busbar output costs for intermediate or base-load solar power plants can be achieved only when the costs of the concentrating heliostats is below \$4,00 per square foot of reflecting area. In addition, the heliostats must resist various weather factors and have a long relatively maintenance-free life. A concept is derived

for a 'weather-decoupled' heliostat fabricated primarily from tensioned plastic films. The plastic-film enclosure (dome) over the reflector reduces the heliostat efficiency; however, this is easily compensated by increasing the total heliostat area. Other system effects do not appear to have a significant impact, leading to an overall cost advantage for this type of heliostat.

(Author)

A75-45992 Industrial process heat from solar energy. J. A. Day, A. F. Clark, W. C. Dickinson, and A. Iantuono (California, University, Livermore, Calif.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 750-758. 7 refs. ERDA-sponsored research.

The paper is concerned with the analysis and design of a shallow solar-pond water heating facility intended to provide hot water to a uranium leaching operation. The discussion covers the pond description and alternatives, pond performance equations, and parameter variations as to mass flow rate, total mass, water depth, batch versus continuous-flow mode of operation, and some other relevant characteristics. The payoff derived by selecting a combination solar-fossil-fuel system over an all fossil-fuel system is examined along with the effects of system variation on system costs. Major conclusions are that it is most cost effective to heat all of the water used daily to some intermediate temperature as opposed to heating part of it to 140 F, that hot water storage is cost effective, that the daily heat collected is insensitive to flow rate for a daily fixed mass of water required, and that filling and emptying times are at surrise and 3 hr before sunset, + or - 1/2 hr.

A75-45993 Continuous duty solar energy system concepts. R. Ramakumar (Oklahoma State University, Stillwater, Okla.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics

Engineers, Inc., 1975, p. 759-764. 26 refs. NSF Grant No. GI-39457.

The concepts underlying the design of two continuous-duty solar energy systems for the near and distant future are outlined. In the system proposed for near-term future, solar heat and wind energy are used as inputs, with the outputs being in electrical, thermal, and fuel forms; solar thermal collectors and concentrators are employed to convert solar energy directly into heat for steam production purposes. The system proposed for long-term future is an enlarged version of the near-future system, with additional inputs in the form of sunlight and ocean thermal gradients. Technical aspects of these systems are discussed in terms of solar thermal conversion, field-modulated generator system, aeroturbines and supporting structures, electrolysis and energy storage, aphodid burner, solar sea power plant, photovoltaic conversion, and manufacture of synthetic fuels. Some economic aspects of important units are discussed. Estimates

A75-45994 Water-splitting system synthesized by photochemical and thermoelectric utilizations of solar energy. T. Ohta, S. Asakura, M. Yamaguchi, and N. Kamiya (Yokohama National University, Yokohama, Japan). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 772-778.

of generation costs indicate that the proposed systems show promise

of being competitive in the coming decades.

A hybrid system is proposed for hydrogen production from water on the basis of solar light and thermal energy. The system consists of a photochemical reactor, an electrolyzer, and a thermoelectric generator. Hydrogen production is made possible by the combination of a glass cell for photochemical reactions and a light-focusing apparatus for the thermoelectric generator. Photochemical reaction is carried out using a mixture of Fe(2+) and molecular iodine, which is transparent to the red light used for heating the 32 thermocouples used in the system. It is shown that

the wide wavelength range of solar light can be utilized to decompose water with a total efficiency within the range 30-35%. S.D.

A75-45995 New dimensions in water heating in the Northwest - A study of solar energy utilization. P. M. Soot, W. R. Goldbach (Pacific Power and Light Co., Inc., Portland, Ore.), and C. B. Winn (Colorado State University, Fort Collins, Colo.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 779-785. 7 refs.

A75-45996 Solar sea power plants /SSPP/. A. M. Strauss (Cincinnati, University, Cincinnati, Ohio). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

!New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 786-795. 61 refs.

The current state of knowledge about the design and construction of demonstration solar sea power plants (SSPP) is reviewed. Open-cycle and closed-cycle SSPP design concepts are discussed. Consideration of structural strength, corrosion resistance, manufacturing and assembly difficulties, initial cost and maintenance suggests that concrete is the best choice for SSPP construction at any ocean depth above the thermocline. The characteristics of Nitinol engine powered SSPP are examined. It is shown that SSPP is a cost-effective nonpolluting system associated with a highly efficient mariculture economy. Recommendations are set forth as to the choice of siting, materials, the Nitinol SSPP, the Claude cycle SSPP, the closed-cycle SSPP, working fluids, turbines, cold water, and mooring and anchoring.

A75-45997 Nickel-hydrogen secondary battery. M. Klein (Energy Research Corp., Danbury, Conn.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 803-806.

The nickel-hydrogen secondary battery system has attracted interest due to its potential long cycle life and insensitivity to overcharge and reversal. Over the past three years a number of design approaches have been studied and experimental data has been generated on both components and lightweight cells. The single cylindrical cell with stacked disk electrodes has emerged in the most favored approach. Two size cells are now available and are being subjected to test and evaluation by a number of organizations. The cells are a 20 ampere-hour size, 2-1/2-inch diameter cylinder and a 50 ampere-hour size 3-1/2-inch diameter. This paper presents the ERC advanced single cell designs and experimental test results on both components and complete cells under a variety of test conditions.

(Author)

A75-45998

Nickel-hydrogen as an alternative to lead-acid and nickel-cadmium systems in non-space applications. L. E. Miller (Eagle-Picher Industries, Inc., Electronics Div., Joplin, Mo.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 807-810.

A low cost, nickel-hydrogen battery design concept is proposed. System cost reduction is achieved through utilization of the multiple cell per single battery pressure vessel concept, standardization of components, ease of manufacture and an inherent system design versatility with an ability to meet varied user requirements with only minor modifications. Utilizing current hermetically-sealed, aerospace nickel-cadmium systems as a cost comparison, it is projected that the proposed design concept will reduce nickel-hydrogen system cost from approximately 25% greater to approximately 50% less than current sealed nickel-cadmium system cost. (Author)

A75-45999 Redox thermogalvanic cells for direct energy conversion. B. W. Burrows (Battelle, Geneva, Switzerland). In:

Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 821-827. 24 refs.

The behavior of nonisothermal galvanic cells has been investigated under conditions of current drain in order to assess their feasibility as devices for the direct conversion of heat into electricity. The cells were based on the ferrous-ferric redox couple with inert Pt electrodes in aqueous supporting electrolyte. It was found that a steady-state power output could be maintained indefinitely as long as a temperature differential remained fixed. The maximum power outputs were, however, limited to values less than 0.05mW per sq cm for temperature differentials of 50 C. The power outputs were limited to these low values by the nature of the potential losses in the thermogalvanic cells, which were found to be principally due to mass-transfer or concentration polarization. (Author)

A75-46000 Energy from agriculture. J. A. Alich, Jr. and R. E. Inman (Stanford Research Institute, Menlo Park, Calif.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th., Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 834-841.

The feasibility and overall energy yield of biomass energy production are assessed. Candidates for cultivable species are tabulated and include sunflower, sorghum, corn, sugarcane, poplar, eucalyptus, and tropical rainforest complex. Energy consumption in running an energy plantation is estimated by individual operation (field tasks, irrigation, farm chemical manufacture, farm machinery manufacture, etc.); it comes to about 24.5 million Btu per acre-year, as compared to 450 million Btu per acre-year total yield. Thus the operation of these plantations appears feasible. The main problem would probably be water supply, since areas (such as the southwest) with enough sunlight for prolific plant growth have a concomitant lack of rainfall.

A75-46001 The economics of the production of liquid fuel and fertilizer by the fixation of atmospheric carbon and nitrogen using nuclear power. S. Baron (Burns and Roe, Inc., Oradell, N.J.) and M. Steinberg (Brookhaven National Laboratory, Upton, N.Y.). In: Energy 10: Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 842-848. 20 refs.

A75-46006 Nuclear heat source for cryogenic refrigerators in space. B. Raab, A. Schock, and W. G. King (Fairchild Space and Electronics Corp., Germantown, Md.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 894-900. 5 refs. ERDA-supported research.

To supply the heat input required by space-borne cryogenic refrigerators, a possible design for a reliable Pu-238 radioisotope heat source, based on state-of-the-art technology, is described. The isotope heat source, which makes use of existing fuel elements, would replace electrical heaters powered by solar panels and batteries, without requiring redesign of the refrigerators. The heat source contains all necessary safety features, and also a simple thermal control system to permit refrigerator shut-down for indefinite duration. A system for thermal interfacing with the spacecraft, the booster, and ground support is also described. The isotope heaters are compared with solar-electric heaters for the same application, and found to result in very significant weight and size savings. (Author)

A75-46009 Harnessing wind power in developing countries. R. Ramakumar (Oklahoma State University, Stillwater, Okla.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 966-973. 19 refs.

This paper discusses the possibilities of harnessing wind power in developing countries to mitigate the burdens imposed by high price of imported fuel and to augment their total energy supply. Special emphasis is given to the use of variable-speed constant-frequency field modulated generator systems to tap wind energy in constant frequency ac form for use in conjunction with conventional utility systems and with isolated conventional generating units. Estimated competitive cost limits are worked out for wind energy systems in comparison with conventional fuel burning systems and with utility supplied electrical energy for pumping water for irrigation and for household electricity in the Arab Republic of Egypt and in the Republic of India. (Author)

A75-46010 Wind and solar thermal combinations for space heating. J. G. McGowan, W. E. Heronemus, and G. Darkazalli (Massachusetts, University, Amherst, Mass.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 974-980. 18 refs.

This paper presents the results of an analytical study that was carried out to model and to determine the feasibility of a residential heating system for the Northeastern section of the United States, designed to be powered or augmented by a wind generator system. In addition to windpowered electrical resistance heating systems (with and without thermal energy storage), the possibility of combining these systems with a flat plate solar collector is investigated. In addition to the detailed analytical results, a description of an experimental system, built on the University of Massachusetts campus, is presented. (Author)

A75-46012 Tornado-type wind energy system. J. T. Yen (Grumman Aerospace Corp., Bethpage, N.Y.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. | New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 987-994. 9 refs.

A multimegawatt wind power system design is proposed, featuring a closed-bottom tower and a flywheel. Experimental data on scaled-down models are tabulated and compared with conventional wind turbines. Wind energy is directed by vertical vanes to form a vortex within the tower. This vortex creates a low-pressure core directly above a horizontal turbine located at the throat of an inlet that is open at the bottom.

S.J.M.

A75-46013 Efficient thermo-mechanical generation of electricity from the heat of radioisotopes. E. H. Cooke-Yarborough and F. W. Yeats (Atomic Energy Research Establishment, Harwell, Oxon, England). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 1003-1011. 8 refs.

A prototype radioisotope-powered thermoelectric generator is described, and preliminary results obtained with it are reported. These results, together with those obtained from higher-powered nonisotopic thermoelectric generators, are employed to calculate the characteristics and performance of thermomechanical radioisotope generators capable of using strontium-90 from nuclear waste. The best performance predicted is a coupling efficiency of 9%, with a growth potential up to 11% at 800 C.

S.J.M.

A75-48014 A 100 watt Stirling electric generator for solar or solid fuel heat sources. W. T. Beale and C. F. Rankin, Jr. (Sunpower, Inc., Athens, Ohio). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 1020-1022. 6 refs.

A75-46015 A comparison of the COMSAT violet and non-reflective cells. J. F. Allison, R. A. Arndt, and A. Meulenberg (COMSAT Laboratories, Clarksburg, Md.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 1038-1040. 6 refs. Research sponsored by the Communications Satellite Corp.

Properties of a new solar cell, known as the nonreflective cell, are described and compared to characteristics of the violet cell and the conventional cell. The nonreflective cell has much lower reflectance, higher current-voltage characteristics, higher short-circuit current, and better wavelength response than previous cells. Its peak power output is 85 mW, corresponding to an efficiency of 15.6 percent, and it produces 21 mW/sq cm under AMO illumination.

S.J.M

A75-46016 * SEPS solar array design and technology evaluation. R. V. Elms, Jr. (Lockheed Missiles and Space Co., Inc., Sunnyvale, Calif.) and L. E. Young (NASA, Marshall Space Flight Center, Huntsville, Ala.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 1041-1047. Contract No. NASB-30315.

The technology developments required and a preliminary design of a lightweight 25 kW solar array for the solar electric propulsion stage (SEPS) have been defined. The requirements for a 65 W/Kg SEPS solar array system requires significant component weight reductions over present state-of-the-art flexible solar arrays in both electrical and structural-mechanical designs. A requirement for operation from 0.3 au to 6.0 au presents a wide range of temperature environments as well as severe combined thermal/vacuum/UV radiation environments. Additional requirements are capability for partial array retraction operation, and capability for full retraction and automatic preloading for survival of the Shuttle reentry environment. An assessment of current lightweight flexible solar array technology is made against the SEPS solar array requirements and new technology requirements are defined. A preliminary design and the operating characteristics of a flat-fold solar array system meeting the SEPS requirements is presented. A full-width, 10-ft-tall functional array model, including representative welded electrical modules and a model astromast, was fabricated and tested. (Author)

A75-46017 * The ATS-6 power system - An optimized design for maximum power source utilization. T. A. LaVigna (NASA, Goddard Space Flight Center, Greenbelt, Md.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 1048-1055. 7 refs.

The modified power system design adopted for the ATS-6 satellite is described. This design featured a shunt-boost configuration to provide direct power from the solar array to the loads for maximum efficiency. In addition, shunt power dissipators were used, not only as a means of power system regulation, but also for thermal control. A brief description of the spacecraft and of the initial series regulator power system design (which was unable to meet mission requirements) precede the discussion. The shunt boost system provides excellent utilization of array power with an 8 to 10% increase in efficiency over the original configuration; good array-battery static and dynamic load sharing; excellent flexibility in accommodating mission requirements; and low electromagnetic interference.

A75-46018 Orbital solar energy technology advances. G. R. Woodcock and D. L. Gregory (Boeing Aerospace Co., Kent, Wash.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 1057-1064. 5 refs.

Power satellites to generate electricity for use on earth will become feasible if economical solutions to five primary technical problems can be found: massive transportation from the earth to a low assembly orbit, assembly operations in that orbit, powersat transportation to the high assembly orbit, efficient power generation, and an efficient, environmentally acceptable power transmission system. We baseline a '1990 technology' total powersat system which provides a preliminary solution to these problems. This system employs solar concentration and thermal engines for power generation. Low orbit transportation is accomplished with a vertical takeoff/vertical land single stage to orbit freighter. High orbit transportation uses electric power generated by the powersat modules themselves to operate electric thrusters. Ground and orbital facilities to support powersat production are described. The effects of gravity gradients on powersat assembly and transportation are discussed. Potential technology advances for advanced powersats are identified. (Author)

A75-46019 * Space power application of the all purpose mini-Brayton rotating unit /mini-BRU/. R. D. Gable and H. J. Lloyd (AiResearch Manufacturing Co., Phoenix, Ariz.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 1071-1076. Contract No. NAS3-18517.

The design of and results of tests on the mini-Brayton rotating unit (mini-BRU) are presented. Results demonstrate the flat performance trends of the mini-BRU system. The system is 'all-purpose'; it is essentially a closed Brayton cycle engine. A power spectrum comprised between 2.1 and 1.4 kWe and recuperator sizes of 106 or 75 lbs are envisioned for the final in-use configuration.

S.J.M.

A75-46022 Hydrogen production by electrolysis - Present and future. A. J. Konopka and D. P. Gregory (Institute of Gas Technology, Chicago, III.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 1184-1193. 23 refs. Contract No. N00014-67-A-0202-0046.

This paper surveys present and future predicted electrolysis systems in terms of three criteria: energy efficiency, which is related to the cell's operating voltage; capital cost of the plant, which is related to cell hydrogen production rate; and lifetime and maintenance requirements, which involve construction materials and operating conditions. Factors affecting electrolyzer design include operating parameters, electrodes, and diaphragms or cell separators. The current state-of-the-art is reviewed as regards tank electrolyzers and filter-press electrolyzers.

A75-46023 Hydrogen production by water electrolysis - Methods for approaching ideal efficiencies. G. Kissel, S. Srinivasan (Brookhaven National Laboratory, Dept. of Applied Science, Upton, N.Y.), M. H. Miles (Middle Tennessee State University, Murfreesboro, Tenn), and P. W. T. Lu. In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 1194-1198. 6 refs. ERDA-sponsored research.

Investigations were carried to determine the nature and extent of correlations between various properties of electrolytic hydrogen production cells. Studies centered on (1) a comparison of cell potential and current density in acid and alkaline water electrolysis cells; (2) the effect of increasing temperature on the performance of these cells; (3) the effect of temperature on hydrogen and oxygen overpotentials at nickel electrodes in concentrated potassium hydroxide electrolytes; and (4) an evaluation of separator materials, to replace asbestos, for carrying out the electrolysis of water in alkaline solution at temperatures in the 150 C range. Maximizing surface area by impregnating noble metal catalyst particles in solid polymer electrolytes resulted in a considerable reduction of activation overpotential. Cell potential decreased from 2.05 to 1.7 V in the

alkaline cell and from 2.35 to 2.05 V in the acid cell as the temperature was increased from 25 to 82 C. S.J.M.

A75-46024 Electrical generation by wind power. R. T. Smith (Southwest Research Institute, San Antonio, Tex.) and T. S. Jayadev (Wisconsin, University, Milwaukee, Wis.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 1246-1250. 12 refs. NSF Grant No. GZ-2932.

Various proposed schemes for wind-powered generation of electricity are reviewed. These schemes are classified as either constant-speed, constant-frequency (CSCF) or variable-speed, constant-frequency (VSCF). Included in the first category are synchronous generators and induction generators; the second group contains ac commutator generators, ac-dc-ac links, and field-modulated generators with subsequent demodulation. Optimum selection of a generating scheme should be based on suitability for interconnection with the power grid and minimization of energy generation cost.

A75-46025 * Electrical generating equipment and electric utility requirements for high-power wind generator systems. P. J. Romanelli (General Electric Co., Valley Forge, Pa.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 1251-1257. 10 refs. Contract No. NAS3-19403.

A75-46026 Wind power system optimization. M. C. Smith (Michigan State University, East Lansing, Mich.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 1258-1263. Research supported by the Michigan State University.

It is shown that wind power system optimization can be achieved by consideration of the four quantities of average annual energy extracted, wind statistics, efficiency of conversion of wind energy to shaft rotation energy and the cost characteristics of the wind interaction elements (blades), the electric generator and the remaining system components. The problem reduces to the determination of two dimensionless parameters as a function of the wind statistics. These parameters determine the optimum blade diameter and the generator size. Example wind statistics and an example optimization problem are given. (Author)

A75-46027 * Comparison and evaluation of nuclear power plant options for geosynchronous power stations. J. R. Williams (Georgia Institute of Technology, Atlanta, Ga.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975; p. 1264-1274. 49 refs. Grant No. NGR-11-002-181.

The suitability of eleven types of nuclear fission reactors in combination with five potential energy conversion systems for use in geosynchronous power plants is evaluated. Gas turbine, potassium Rankine liquid metal MHD, and thermionic energy conversion systems are considered. The existing technology of reactors in near-term, intermediate-term, and long-term classes is discussed, together with modifications for use in large-scale power production in space. Unless the temperature is high enough for MHD, reactors which heat gases are generally more suitable for use with gas turbines. Those which heat liquid metals will be more useful for potassium Rankine or liquid metal MHD conversion systems. C.K.D.

A75-46028 * Design and test of a flywheel energy storage unit for spacecraft application. A. Cormack, III, J. E. Notti, Jr., and

M. L. Ruiz (Rockwell International Corp., Downey, Calif.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 1275-1280. Research supported by the Rockwell Independent Research and Development Funds; Contract No. NAS1-13008.

This paper summarizes the design and test of a development flywheel energy storage device intended for spacecraft application. The flywheel unit is the prototype for the rotating assembly portion of an integrated Power and Attitude Control System (IPACS). The paper includes a general description of the flywheel unit; specific design characteristics for the rotor and bearings, motor-generators, and electronics; an efficiency analysis; and test results for a research unit. (Author)

A75-46034 High efficiency power conversion cycles using hydrogen compressed by absorption on metal hydrides. J. R. Powell, F. J. Salzano, W.-S. Yu, and J. S. Milau (Brookhaven National Laboratory, Upton, N.Y.). In: Energy 10: Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 1339-1347. 10 refs.

A new power conversion cycle is analyzed which uses H2 gas as a working fluid in a regenerative closed Brayton cycle. In the proposed cycle, H2 is compressed by cyclic absorption/desorption on a metal hydride bed instead of being mechanically compressed. Two thermal inputs are used: a low temperature input supplied by low grade solar geothermal heat, which operates the hydride compressor, and a high temperature heat input supplied by a nuclear reactor or fossil combustor. Almost all of the high temperature heat input can be converted to electricity using current fossil or reactor technology. Approximately 3 KW (th) of low grade heat input is required per KW (e) output. Besides conserving scarce nuclear and fossil resources, the proposed cycle should result in reduced capital costs for electric generation plants, as well as substantially lower total electric generation costs. Where low grade heat sources are available, existing power plants can be retro-fitted with the proposed cycle, which (Author) would increase output by a factor of 2 or more.

A75-46035 Hydrogen sponge heat pump. S. Wolf (U.S. Navy, Naval Underwater Systems Center, Newport, R.I.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 1348-1351.

A heat pump with potentially higher performance and higher heat output temperatures than conventional cycles is described. Heat is transferred by the exothermic adsorption on and endothermic desorption from a lanthanum pentanickel sponge, with periodic flow reversal when saturation occurs. The pressure at which transfer takes place is a function of sponge temperature, with a relativly low (100 psi) pressure differential necessary to obtain a useful temperature differential (55 C). Substantial cost reductions are demonstrated in comparison with equivalent oil fired furnace heating systems. Coefficients of performance for a Carnot Cycle system, an F-12 Freon heat pump system and the hydrogen sponge heat pump system for real and reversible adiabatic compressors are calculated, and advantages up to 23% in favor of the hydrogen sponge system are shown.

C.K.D.

A75-46036 The rate limiting processes for the sorption of hydrogen in LaNi5. O. Boser and D. Lehrfeld (North American Philips Laboratories, Briarcliff Manor, N.Y.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 1363-1369. 10 refs. Contract No. F33615-73-C-3003.

A hydrogen-compressor module based on the sorption of hydrogen in LaNi5 is described, and the rate limiting process is determined for the sorption of hydrogen in the same material. The most significant features of the compressor are outlined together with its working cycle, and results are reported for tests of the heat-up and desorption input-heat requirements of the LaNi5 module. The sorption-rate measurements indicate that 80% of a charge of hydrogen will be absorbed in about 11 sec at room temperature and in about 1.5 sec at 90 C.

F.G.M.

A75-46037 A technology assessment of the hydrogen economy concept. E. M. Dickson, J. W. Ryan, and M. H. Smulyan (Stanford Research Institute, Menlo Park, Calif.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 1370-1379. NSF-sponsored research.

The building block concept referring to economic scale considerations is described and the natural building blocks for hydrogen production, conversion, distribution, and demand are examined as a basis for the evaluation of important factors concerning a hydrogen economy. The relative economics of hydrogen are discussed along with important noneconomic conditions affecting the evolution of a hydrogen economy. It is concluded that for a variety of reasons the transition process toward an electric/hydrogen economy, if it is to take place, will probably be slow.

G.R.

A75-46038 A detailed analysis of the hydriding characteristics of LaNi5. C. E. Lundin and F. E. Lynch (Denver, University, Denver, Colo.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 1380-1385. 20 refs. Contract No. F44620-74-C-0020.

The storage of hydrogen constitutes one major problem which has to be solved for an application of hydrogen gas as an alternative to fossil fuels. The use of metal alloy absorbers for storing hydrogen is currently being studied. The investigation reported is concerned with the properties of LaNi5 which is considered for the storage of hydrogen in the form of metal hydrides. Attention is given to the pressure-temperature-composition relationships, the thermodynamic properties deduced therefrom, the phase equilibria, the hysteresis effects, and the kinetics of desorption.

G.R.

A75-46040 Evaluation of solar-assisted Rankine cycle concept for the cooling of buildings. H. M. Curran and M. Miller (Hittman Associates, Inc., Columbia, Md.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 1391-1398. NSF Grant No. C-858.

A75-46041 Heat pipe thermal recovery units. M. A. Ruch (Q-dot Corp., Dallas, Tex.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 1507-1510.

The heat pipe is an evaporation/condensation device which can transfer large quantities of heat with very small temperature differences. A multiplicity of heat pipes arranged as a counterflow heat exchanger between two airstreams finds useful applications in thermal energy recovery. Three general classes of applications can be identified: (1) using energy recovered from process exhaust to regenerate the process, (2) using energy from process exhaust to heat comfort make-up air during the winter months, and (3) using comfort exhaust to preheat comfort make-up air during the winter months and/or precool comfort make-up air during the summer months. Installations of each class are described. (Author)

A75-46042 High temperature heat pipes for energy conservation. A. Basiulis and J. H. Johnson (Hughes Aircraft Co.,

Electron Dynamics Div., Torrance, Calif.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 1511-1515. 5 refs.

The characteristics of different heat recovery systems are examined, taking into account regenerator types, shell and tube heat exchangers, a secondary fluid heat exchanger, a plate-fin heat exchanger, and a heat pipe heat exchanger. Heat exchangers for high temperature energy recovery are evaluated. It is found that the heat pipe unit potentially offers better heat transfer, lower pressure drop, lower maintenance cost, and possibly lower installation cost. High temperature heat pipe materials are discussed. For the temperature range from 800 to 1800 F, heat pipe working fluids are available and only reliable envelope materials are needed.

G.R.

A75-46043 Heat pipe applications development in Europe.

O. Brost and W. D. Münzel (Stuttgart, Universität, Stuttgart, West Germany). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 1516-1527. 27 refs.

Heat pipes for the cryogenic temperature range are considered along with low temperature heat pipes, heat pipes in the midtemperature range, and heat pipes in the high temperature range. A description of structures for high performance heat pipes is presented. The characteristics of isothermal spaces obtained by the use of simple heat pipes are examined, taking into account isothermal inserts, isothermal furnaces, and thermal conductivity and heat flux measurements using heat pipes. Problems of heat flux transformation and temperature controlled heat pipes are also discussed.

G.R.

A75-46044 Laser application of heat pipe technology in energy related programs. R. J. Carbone (California, University, Los Alamos, N. Mex.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record. New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 1528-1532. 13 refs.

It is pointed out that the unique characteristics of uniform density, small temperature gradient, thermal stability, and high thermal conduction in a heat pipe may provide the only means to accomplish undistorted beam transmission required for the optical and near ultraviolet spectral output in certain laser applications. The operating conditions for vapor-vapor or vapor-gas mixtures are discussed along with questions regarding the selected optical application of the heat pipe. A potential laser medium that could be useful for laser fusion or isotope separation is molecular mercury.

G.R.

A75-46045 Application of heat pipes to solar collectors.

W. B. Bienert, D. S. Trimmer, and D. A. Wolf (Dynatherm Corp., Cockeysville, Md.). In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, Del., August 18-22, 1975, Record.

New York, Institute of Electrical and Electronics Engineers, Inc., 1975, p. 1533-1539. 11 refs. ERDA-NSF-sponsored research.

A description is given of a development program concerned with heat pipe applications in the case of solar-to-thermal energy conversion concepts. Highly reflecting parabolic trough-like mirrors are used to concentrate the solar flux on a coated heat pipe. Heat pipe requirements are examined and aspects regarding the selection of a working fluid are investigated. Questions of hydrodynamics and heat transfer are considered. A study is conducted of the feasibility and merit of incorporating heat pipes into flat plate solar collectors.

G.R.

A75-46548 Availability and propulsion. J. M. Clarke (Noel Penny Turbines, Inc., England) and J. H. Horlock (Salford Univer-

sity, Salford, Lancs., England). Journal of Mechanical Engineering Science, vol. 17, Aug. 1975, p. 223-232. 9 refs.

The first and second laws applied to steady-flow systems are expressed in forms which emphasize the distinction between energy, which is conserved, and available energy, which is depleted in real processes. These forms are applied to propulsive systems using, as a velocity datum, the propulsion unit itself and, alternatively, the atmosphere at rest. The maximum thrust power obtainable from the combustion of the fuel is shown to be dependent on the composition, state and velocity of the fuel and also on the composition and state of the environment in which the unit works. An illustrative calculation of the losses in a turbojet engine in flight reveals that in this case 16.64 per cent of the fuel's available energy is obtained as thrust power, 54.25 per cent is rejected by the exhaust, 2.33 per cent is dissipated by aerodynamic losses and the remainder (26.78 per cent) is lost by combustion. Available-energy calculations are seen as providing a consistent framework within which losses can be compared within machines, between machines of different types for the same job and with perfection in the form of the completely reversible machine. (Author)

A75-46721 * Technique for producing 'good' GaAs solar cells using poor-quality substrates. H. J. Hovel and J. M. Wooddall (IBM Thomas J. Watson Research Center, Yorktown Heights, N.Y.). Applied Physics Letters, vol. 27, Oct. 15, 1975, p. 447-449. 7 refs. NASA-supported research.

Relatively good GaAs solar cells can be made from poor-quality substrates by making the junction deep (greater than 1 micron) instead of shallow and by 'leaching' both the pGaAs and nGaAs regions during the growth process. AMO efficiencies of 14.7% (19% AM1) have been obtained from substrates with starting substrate diffusion lengths of 0.6 micron. (Author)

A75-46951 Indium tin oxide-coated silicon as a selective absorber. R. B. Goldner and H. M. Haskal (Tufts, University, Medford, Mass.). *Applied Optics*, vol. 14, Oct. 1975, p. 2328, 2329. 7 refs.

It is shown that by coating a silicon solar absorber with a thin indium tin oxide (ITO) layer, its selectivity is considerably increased. The thin coating acts as both an antireflection coating for solar radiation and as a reflector for thermal infrared radiation. The antireflecting property can be attributed to the fact that the refractivity of the coating closely index-matches silicon and vacuum over much of the solar spectrum; while the infrared reflecting property, to the high concentration of free carriers and their high optical mobility. Spectral reflectance results are presented for two ITO-coated silicon samples and for uncoated silicon.

A75-47081 # Liquid hydrogen - Future aircraft fuel: Background, payoff, and cryogenic engineering challenge. W. J. D. Escher (Escher Technology Associates, St. Johns, Mich.). In: Advances in cryogenic engineering. Volume 20. New York, Plenum Press, 1975, p. 70-81. 10 refs.

The paper reviews past experience with hydrogen aircraft and engines and examines the issue of the potential technical impact of liquid hydrogen fuel on future commercial aircraft design. The engineering aspects of liquid hydrogen compared to conventional hydrocarbon aircraft fuel are studied, and several conceptual designs created by the aircraft industry which reflect approaches for integrating hydrogen fuel into the aircraft are presented. The liquid hydrogen tank will tend to be larger, more expensive, and heavier than that for conventional fuel, but these disadvantages are expected to be outweighed by hydrogen's superior ability as a fuel. Hydrogen provides a potential for much higher 'space heating rates', which suggests the opportunity to considerably shorten engine combustor lengths and, important from the NOx formation standpoint, associated dwell times.

A75-47495 Liquid hydrogen - Fuel of the future. R. Jensen (Lockheed-California Co., Burbank, Calif.). Society of Allied

Weight Engineers, Annual Conference, 34th, Seattle, Wash., May 5-7, 1975, Paper 1065. 43 p. 18 refs.

Liquid hydrogen is compared to petroleum-based fuels for propulsion of various types of vehicles. For supersonic aircraft, a lighter, less costly design can be achieved through the use of this cryogenic fuel. Takeoff weight carn be reduced by more than 40%, operational empty weight and cost by more than 20%. For subsonic, medium-range aircraft, takeoff and operational weights can be reduced by 20% and 10%, respectively. A brief review of the methods used to produce this fuel of the future leads to an outline of the ways in which our needs may be met. For the near term, LH2 can be manufactured from coal or lignite. In the not-too-distant future, nuclear power or solar collectors can generate large quantities of hydrogen by electrolysis or by thermochemical splitting of water. A comparison of relative hazards shows that LH2 is actually safer to use than petroleum fuels. (Author)

A75-47509 Weight contribution to fuel conservation for terminal area compatible aircraft. G. W. Hanks (Boeing Co., Seattle, Wash.). Society of Allied Weight Engineers, Annual Conference, 34th, Seattle, Wash., May 5-7, 1975, Paper 1091. 25 p. 6 refs,

The contribution to reductions in fuel consumption by potential weight characteristics of advanced aircraft are considered, and trades between weight reduction versus increased aerodynamic and operating efficiency are discussed. Direct reductions in fuel use may be obtained by application of advanced technology in structure and airfoils, proper engine choice, and revised environmental control features. Weight penalties involved in wing planform optimization are countered by increased aerodynamic efficiency. Results of studies of an M = 0.80, 200 passenger, 5556 km design incorporating advanced structure, airfoils, and propulsion show 21.6% reductions in operational empty weight and takeoff gross weight as compared to a conventional design. Features for reduction of congestion and emissions offer fuel reduction potential; noise reduction devices carry weight and fuel-use penalties. Implementation of the described fuel reduction approaches will yield an estimated 25% reduction in fuel consumption.

A75-47511 # Solar-thermal electric power generation using a system of distributed parabolic trough collectors. J. W. Ramsey (Honeywell Systems and Research Center, Minneapolis, Minn.), E. M. Sparrow, and E. R. G. Eckert (Minnesota, University, Minneapolis, Minn.). ASME, AIChE, CSChE, and CSME, Heat Transfer Conference, San Francisco, Calif., Aug. 11-13, 1975, AIChE Paper 12. 35 p. 5 refs.

The paper describes a solar-thermal collection and transport system for electric power generation. The system employs water as the working fluid; steam at 60 bars pressure and 276 C is generated locally by distributed parabolic solar collectors. A transfer loop conveys the steam to a central site at which the power plant is situated. The design of the collector and the operating characteristics of three transfer loop configurations are described. Results of experiments performed at a desert test site using a scale model of a solar collector module are presented. The data establish the efficiency of the collector both in the absence of heat losses and under normal operating conditions. The findings of life tests being performed on samples of candidate solar reflector surfaces are reported.

A75-47512 # High temperature air preheaters for open cycle MHD energy conversion systems. F. A. Hals, R. E. Gannon, F. E. Becker, and H. Steinle (Avoc Everett Research Laboratory, Inc., Everett, Mass.). ASME, AICHE, CSCHE, and CSME, Heat Transfer Conference, San Francisco, Calif., Aug. 11-13, 1975, AICHE Paper 16. 59 p. 34 refs. Research supported by the Electric Power Research Institute, Baltimore Gas and Electric Co., Boston Edison Co., Consolidated Edison Company of New York, NEGEA Service Corp., New England Power Co., Northeast Utilities Service Co., Avoc Corp., and ERDA.

The paper studies the use of refractory type regenerative preheaters which have been under development for reaching preheat temperatures from 2000-3000 F or higher. There are two types of high temperature air preheaters: one type classified as directly fired, utilizes the heat energy in the MHD generator exhaust gas for preheating of the combustion air; the other type classified as indirectly fired utilizes a separate fuel as the heat source. Design criteria and operating characteristics of both of these two types of high temperature preheaters for MHD power systems are reviewed. The status in the air preheater development work is summarized which includes results from experimental preheater operation and from corrosion studies of candidate refractory materials for use in preheaters. (Author)

A75-47525 # Direct contact heat exchangers in geothermal power production. I. Sheinbaum (Ben Holt Co., Pasadena, Calif.). ASME, AICHE, CSChE, and CSME, Heat Transfer Conference, San Francisco, Calif., Aug. 11-13, 1975, ASME Paper 75-HT-52. 10 p. 21 refs. Members, \$1.00; nonmembers, \$3.00.

The direct contact cycle can be advantageously utilized in the production of power from liquid dominated geothermal resources. The heat from the geothermal resource is transferred to a selected working fluid by direct countercurrent contact in a vertical perforated trayed tower. The direct contactor is divided into three heat transfer zones where heat is extracted from the hot water by liquid-liquid contact, mixed phase boiling and vapor liquid contact. A procedure is presented for optimizing the cycle, sizing the direct contactor and evaluating the number of cross temperature contacts and tray efficiencies in each of the heat transfer zones. The relationship between heat transfer and mass transfer is indicated for the perforated trayed tower.

(Author)

A75-47526 # Moderately concentrating flat-plate solar energy collectors. R. B. Bannerot and J. R. Howell (Houston, University, Houston, Tex.). ASME, AICHE, CSChE, and CSME, Heat Transfer Conference, San Francisco, Calif., Aug. 11-13, 1975, ASME Paper 75-HT-54. 11 p. 19 refs. Members, \$1.00; nonmembers, \$3.00. NSF Grant No. GI-41003.

The radiative characteristics of a family of solar collectors consisting of East-West aligned trapezoidal grooves with reflecting walls are determined. Optimal designs based on one-reflection maximum concentration of direct insolation are analyzed for seasonal variations in noon-time solar incidence. The effect of off-design performance is examined. Comparison of such collectors with other high-performance collectors is made. It is concluded that geometrical modification will produce behavior improvement of the same order as that produced by a very good spectrally selective surface. Choice would be determined by relative cost and durability. Combining the geometrical effect with a spectrally selective surface in a simple collector model yields noon-time efficiencies on the order of fifty percent with the absorber plate temperature 93 C above ambient. (Author)

A75-47527 # The role of heat transfer in solving geothermal energy problems to accelerate its effective application. E. F. Wehlage (International Society for Geothermal Engineering, Whittier, Calif.). ASME, AIChE, CSChE, and CSME, Heat Transfer Conference, San Francisco, Calif., Aug. 11-13, 1975, ASME Paper 75-HT-57. 12 p. 20 refs. Members, \$1.00; nonmembers, \$3.00.

Heat exchange equipment difficulties now make a formidable barrier to future geothermal use. Both binary cycle units and refrigeration systems look dependent on the resolution of existing difficulties in heat transfer systems for geothermal service. (Author)

A75-47798 * # Preliminary results of the large experimental wind turbine phase of the national wind energy program. R. L. Thomas and J. E. Sholes (NASA, Lewis Research Center, Cleveland, Ohio). Oklahoma State University, Frontiers of Technology Conference, Stillwater, Okla., Oct. 1, 2, 1975, Paper. 13 p. 5 refs.

A major phase of the wind energy program is the development of reliable wind turbines for supplying cost-competitive electrical

energy. This paper discusses the preliminary results of two projects in this phase of the program. First an experimental 100 kW wind turbine design and its status are reviewed. Also discussed are the results of two parallel design studies for determining the configurations and power levels for wind turbines with minimum energy costs. These studies show wind energy costs of 7 to 1.5 c/kWH for wind turbines produced in quantities of 100 to 1000 a year and located at sites having average winds of 12 to 18 mph. (Author)

A75-47802 * # Plans and status of the NASA-Lewis Research Center wind energy project. R. Thomas, R. Puthoff, J. Savino, and W. Johnson (NASA, Lewis Research Center, Cleveland, Ohio). Institute of Electrical and Electronics Engineers and American Society of Mechanical Engineers, Joint Power Conference, Portland, Ore., Sept. 28-Oct. 1, 1975, Paper. 30 p. 8 refs.

This report describes that portion of the national five-year wind energy program that is being managed by the NASA-Lewis Research Center for the ERDA. The Lewis Research Center's Wind Power Office, its organization and plans and status are briefly described. The three major elements of the wind energy project at Lewis are the experimental 100 kW wind-turbine generator; the first generation industry-built and user-operated wind turbine generators; and the supporting research and technology tasks which are each briefly described. (Author)

A75-47803 * # The NASA-Lewis/ERDA Solar Heating and Cooling Technology Program. J. P. Couch and H. S. Bloomfield (NASA, Lewis Research Center, Cleveland, Ohio). International Solar Energy Society and American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Workshop on the Use of Solar Energy for the Cooling of Buildings, Los Angeles, Calif., Aug. 4-6, 1975, Paper, 14 p. 20 refs.

The NASA Lewis Research Center plans to carry out a major role in the ERDA Solar Heating and Cooling Program. This role would be to create and test the enabling technology for future solar heating, cooling, and combined heating/cooling systems. The major objectives of the project are to achieve reduction in solar energy system costs, while maintaining adequate performance, reliability, life, and maintenance characteristics. The project approach is to move progressively through component, subsystem, and then system technology advancement phases in parallel with continuing manufacturing cost assessment studies. This approach will be accomplished principally by contract with industry to develop advanced components and subsystems. This advanced hardware will be tested to establish 'technology readiness' both under controlled laboratory conditions and under real sun conditions. (Author)

A75-47804 * # Initial comparisons of solar collector performance data obtained out-of doors and with a solar simulator. R. W. Vernon (NASA, Lewis Research Center, Cleveland, Ohio). International Solar Energy Society, Meeting, Los Angeles, Calif., July 28-Aug. 1, 1975, Paper. 14 p. 9 refs.

A facility was constructed to evaluate solar collector performance outdoors for conditions that would be encountered by collectors if they were incorporated in a solar heating/cooling system. In addition to obtaining initial collector performance data, the outdoor facility will enable collector durability and degradation rates to be evaluated for operating periods of several months. The data obtained from the outdoor tests were compared to collector performance predicted on the basis of results obtained with a solar simulator. The performance measured outdoors was less than the predicted performance. (Author)

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STAR ENTRIES

N75-28503# National Academy of Sciences - National Research Council, Washington, D.C.

NATIONAL MATERIALS POLICY

Jan. 1975 216 p refs Proc. of a Joint Meeting of the Natl. Acad. of Sci-Natl. Acad. of Eng., Washington, D. C., 25-26 Oct. 1973

(Contracts NSF C-310; DI-BM-SO-133081)

(PB-240941/5; ISBN-0-309-02247-9) Avail: NTIS MF \$2.25; HC Natl. Acad. of Sci., Washington, D. C. CSCL 05D

A broad range of issues and strategies dealing with national policy on materials to complement present energy and environmental programs is covered. Information on the size of materials reserves, more efficient recovery of nonrenewable resources, and the creative use of wastes and pollutants to extend the useful life of materials is discussed. Recommendations on further university and industry contributions to materials science and engineering, and on priorities for research and development are given.

N75-28508# Electric Power Research Inst., Palo Alto, Calif. URANIUM RESOURCES TO MEET LONG TERM URANIUM REQUIREMENTS

Nov. 1974 123 p refs (PB-239515/0; EPRI-SR-5) Avail: NTIS HC \$5.25

Comparison between uranium requirements and uranium resources, the uncertainty concerning the size of the nation's uranium resources, and the future levels of uranium consumption are discussed. Published AEC uranium statistics form the basis for all of the quantitative uranium resources analysis. The United States is essentially unexplored for uranium and much more information is necessary to adequately assess the uranium potential of the country.

N75-28514# Bureau or Mines, Washington, D.C. A SUMMARY OF SIGNIFICANT RESULTS IN MINING METALLURGY AND ENERGY, BUREAU OF MINES RE-SEARCH 1974

Mar. 1975 138 p (PB-241084/2; BM-SP-1-75) Avail: NTIS MF \$2.25; SOD HC CSCL 081

Research projects in the minerals and fossil fuels fields are summarized. Topics covered include: technology to increase the percentage of recovery of oil, coal, natural gas, copper, and other mineral products; the economics of recycling scrap metals, efficient utilization of virgin metals and minerals by extending their mormal lifespan; and industrial uses for the wastes of mineral processing that costitute unsightly dumps and contribute to air, water, and land pollution.

N75-28516 British Library Lending Div., Boston Spa (England). SOVIET ENERGY POTENTIAL

M. Pervukhin [1974] 3 p Transl. into ENGLISH from Moskovskaya Pravda (Moscow), 21 Apr. 1974

(BLL-M-23413-(5828.4F)) Avail: British Library Lending Div., Boston Spa, Engl.: 1 BLL photocopy coupon

Various energy resources and their utilization in the U.S.S.R. are outlined. Coal, oil, gas, hydropower and atomic power are discussed.

D.M.L.

N75-28517 AEG-Telefunken, Backnang (West Germany).
ANALYSIS OF TECHNOLOGICAL DEVELOPMENT PROBLEMS POSED BY USE OF ORBITAL SYSTEMS FOR ENERGY CONVERSION AND TRANSFER IN AND FROM SPACE Final Report [ANALYSE DER TECHNOLOGISCHEN ENTWICKLUNGSPROBLEME FUER DEN EINSATZ ORBITALER SYSTEME ZUR ENERGIEERZEUGUNG IM BZW. DER ENERGIEUEBERTRAGUNG AUS DEM WELTRAUM]

May 1975 502 p refs In GERMAN Prepared jointly with Dornier System and Tech. Univ. Berlin (Contract RV-1/1-V-67/74-PZ-BB-74)

Avail: Issuing Activity

Current American and European concepts of a solar satellite power station with associated technological problem areas was studied. Solar arrays, liquid gallium as a collecting contact, amplitrons and phased array earth antennas for microwave transmission and reception, respectively, and associated technological and theoretical implications, as well as typical spacecraft optimization problems are considered in detail.

N75-28518*# Little (Arthur D.), Inc., Cambridge, Måss. FEASIBILITY STUDY OF SOLAR ENERGY UTILIZATION IN MODULAR INTEGRATED UTILITY SYSTEMS Final Report 30 Jun. 1975 187 p refs (Contract NAS9-14524)

(NASA-CR-141929; ADL-78036) Avail: NTIS HC \$7.00 CSCL

The feasibility and benefits were evaluated of solar thermal energy systems on Integrated Utility Systems. The effort included the identification of potential system concepts, evaluation of hardware status, and performance of weighted system evaluations to select promising system concepts deserving of further study.

N75-28519*# National Aeronautics and Space Administration. Pasadena Office, Calif.

LOW-COST SOLAR ENERGY COLLECTION SYSTEM PatentApplication

Charles G. Miller (JPL) and James B. Stephens, inventors (to NASA) (JPL) Filed 24 Jul. 1975 57 p

(Contract NAS7-100) (NASA-Case-NPO-13579-1; NASA-Case-NPO-13580-1;

US-Patent-Appl-SN-598969) Avail: NTIS HC \$4.25 CSCL

A fixed, linear, ground-based primary reflector is described which has an extended curved-sawtooth contoured surface covered with a metallized polymeric reflecting material; It reflects solar energy to a movably supported collector that is kept at the concentrated line focus of the reflector primary. The primary flector was constructed by a process utilizing freeway paving machinery. The solar energy absorber is preferably a fluidtransporting pipe. Efficient utilization leading to high temperatures from the reflected solar energy was obtained by cylindrical shaped secondary reflectors that direct off-angle energy to the absorber pipe. Refocusing secondary reflectors which cause a series of discrete spots of highly concentrated solar energy to fall on the fluid-transporting pipe were used to obtain higher temperature levels. A seriatim arrangement of cylindrical secondary reflector stages and spot-forming reflector stages produces a high temperature solar energy collection system of greater efficiency. NASA

N75-28522# Army War Coll., Carlisle Barracks, Pa. TECHNOLOGICAL FEASIBILITY OF ALTERNATIVE ENERGY SOURCES

Maurice L. Zweigle 28 Oct. 1974 30 p refs (AD-A005549) Avail: NTIS CSCL 05/3

The U.S. energy shortage is discussed. The technology of coal gasification or liquefication, shale oil from oil shale, and geothermal energy recovery is presented in sufficient detail to show feasibility of these as energy source alternatives to petroleum crude. Technical trade publications data show that essentially all necessary process technology is known, although important improvements are possible, and have been proved at pilot plant scale. Conversion of coal to energy offers the best opportunity

for rapid development as a broad, in-house U.S. energy source. The other two should be developed as time and funds are available.

N75-28524# Stanford Univ., Calif.
WORKSHOP ON FUNDAMENTAL RESEARCH IN HOMO-GENEOUS CATALYSIS AS RELATED TO US ENERGY **PROBLEMS** Final Report

James P. Collman, Jack Halpern, Jack Norton, and James Roth 6 Dec. 1974 43 p Workshop held at Stanford, Calif., 4-6 Dec. 1974

(Grant NSF MPS-04210)

(PB-240177/6) Avail: NTIS HC \$3.75 CSCL 07D

Opportunities for the solution of energy problems by homogeneous catalysts were discussed along with recommendations for fundamental research that could accelerate these solutions. The following areas of research were recognized: (1) the homogeneous catalytic activation of saturated hydrocarbons; (2) selective oxidation of organic substances and the activation of oxygen: (3) the reduction of carbon monoxide, especially by hydrogen; (4) studies on multi-metal catalyst systems; (5) production of high energy substances; and (6) catalytic complexes involving unusual metal environments.

N75-28527# National Center for Energy Management and Power, Philadelphia, Pa.

INTEGRATED SOLAR POWERED CLIMATE CONDITIONING SYSTEMS Semiannual Progress Report, 1 Jan. - 30 Jun. 1974

Jesse C. Denton Jul. 1974 67 p refs (Grant NSF GI-29729)

(PB-239759/4; NSF/RANN/SE/GI-29729/PR-74-2;

NSF/RA/N-74-152(4)) Avail: NTIS HC \$4.25 CSCL 10B

Performance comparisons were made between direct solar heating, solar powered vapor compression and gas absorption heat pumps, electric resistance heating, and combustion furnace heating. Seasonal resource energy consumption for a Philadelphia single family residence was used as the measure of comparison. The attitudes of prospective purchasers toward using solar heating in their new homes were surveyed. Financial institutions were polled to determine whether they would grant additional loans on buildings equipped with solar heating systems in view of the expected operating cost savings. Government agencies were contacted to elicit plans for encouraging such loans. **GRA**

N75-28528# Mitre Corp., McLean, Va.

TRANSPORTATION ENERGY CONSERVATION: A PROGRAM PLAN OF POLICY-ORIENTED RESEARCH Final Final Report

Willard E. Fraize, Michael Lenard, and John Lieb Jan. 1975 77 p refs

(Contract FEA-C-04-50065-00)

(PB-240734/4; MTR-6843) Avail: NTIS HC \$4.75 CSCL

Transportation's role in energy conservation is reviewed. The Office of Transportation Research proposed research program to explore transportation energy use and alternative government policies related to transportation energy conservation is described. Project descriptions include estimated cost, suggested scheduling, priority designation, interrelationships with other projects and programs, and detailed task descriptions.

N75-28529# Little (Arthur D.), Inc., Cambridge, Mass. AN OVERVIEW OF ALTERNATIVE ENERGY SOURCES FOR LDCS

7 Aug. 1974 372 p refs (Contract AID/TA/C-1089)

(PB-239465/8; ADL-C-77105) Avail: NTIS MF \$10.00 CSCL 10A

An overview of alternative energy sources is presented which could be of significant value to lesser developed countries in adjusting to the impact of sharply higher world market prices of petroleum. It presents a highly condensed review of nonconventional energy technologies, together with some limited commentary on the relevance of the more conventional technologies in new lesser developed country economic settings. It also. provides a summary on a country-by-country basis of the current economic posture and energy resources array.

N75-28530# Industrial Research Inst., Inc., New York. INSTITUTIONAL AND LEGAL CONSTRAINTS TO COOPER-ATIVE ENERGY RESEARCH AND DEVELOPMENT Final Report

Mar. 1975 174 p (Contract DOC-4-35596)

(PB-240929/0; CTAB-75-2) Avail: NTIS HC \$6.25 CSCL -

Guidelines are provided for the design and operation of research and development consortia with a minimum risk of antitrust challenge. A platform is given for a governmentindustry dialog on the need for and the barriers to cooperative research and development. The results of a survey of Industrial Research Institute member companies which identifies industry's perceptions of the barriers to cooperative research and development ventures and describes eight illustrative case histories is presented.

N75-28536# Wisconsin Univ., Madison. Inst. for Environmental **Studies**

GLASS RECYCLING AND REUSE

Harold R. Samtur Mar. 1974 106 p refs

(Grant NSF GI-29731)

(PB-239674/5; IES-17; NSF/RA/E-74-015) Avail: NTIS

HC \$5.25 CSCL 13B

Methods are surveyed for recycling and/or reusing postconsumer glass products to determine which methods are most favorable. The following topics are included: the properties of glass, glass manufacture; analyses of alternatives to direct disposal of glass products; reuse of waste glass for glass manufacture; techniques for the separation of glass from municipal refuse; the development of degradable glass containers; returnable containers; and energy consumption for each of the major components of the glass cycle.

N75-28539# National Science Foundation, Washington, D.C. Div. of Advanced Energy Research and Technology. PROCEEDINGS OF THE CONFERENCE ON ENERGY

CONSERVATION IN COMMERCIAL RESIDENTIAL AND INDUSTRIAL BUILDINGS

7 May 1974 340 p refs Conf. held at Columbus, Ohio, 5-7 May 1974; Sponsored by Ohio State Univ., Am. Soc. of Heating, Refrigerating and Air-conditioning Engr., Inc., and the Assoc. of Phys. Plant Admin. of Univ. and Coll. (PB-240306/1; NSF/RA/N-74-123) Avail: NTIS HC \$9.50

CSCL 10A

Topics discussed are as follows: (1) Current energy conservation test projects, (2) energy conservation methods and associated problems in industry; (3) problems of energy conservation in existing buildings; (4) energy conservation methods in buildings; (5) computer programs and system simulations; (6) future changes in codes and buildings; and (7) possible research projects in GRA energy conservation in the future

N75-28543# Minnesota Univ., Minneapolis. RESEARCH APPLIED TO SOLAR THERMAL SYSTEMS Semiannual Progress Report, 1 Jan. - 31 Jun. 1974

E. M. Sparrow, J. W. Ramsey, and G. K. Wehner Jul. 1974 189 p refs Prepared in Cooperation with Dynatherm Corp. and Honeywell, Inc., Minneapolis

(Grant NSF GI-34871)

(PB-241089/2: NSF/RANN/SE/GI-34871/PR-74-2;

NSF/RA/N-74-147; SAPR-4) Avail: NTIS MF \$7.00 CSCL 10B

Experiments of a scale model trough collector were performed at a desert test site. Absorbed solar energy was measured both for east/west and north/south orientations. The collector was found to absorb up to 61.5 percent of the available solar flux.

Continuing life tests of candidate solar concentrator surfaces indicated that certain surfaces showed no degradation in reflectance. Solar absorber coating/substrate structures have been devised for high temperature operation and a technique developed for enhancing coating life expectancy in air. Cost characteristics of three transfer loop systems were determined and the most cost effective one was identified.

N75-28544# Minnesota Univ., Minneapolis. RESEARCH APPLIED TO SOLAR THERMAL POWER SYSTEMS Semiannual Report, 1 Jul. - 31 Dec. 1974 E. M. Sparrow, J. W. Ramsey, and G. K. Wehner Jan. 1975 112 p refs Prepared in cooperation with Dynatherm, Corp., Cockeysville, Md. and Honeywell, Inc., Minneapolis, Minn. (Grant NSF GI-34871) (PB-241090/0; NSF/RANN/SE/GI-34871/PR-74-4;

NSF/RA/N-75-015; SAR-5) Avail: NTIS HC \$5.25 CSCL 10B

Experiments were conducted on the scalemodel parabolic trough collector module at a desert test site. Collector performance was measured for absorber tube operation over a range of temperature from 210 to 300C. Auger electron spectroscopy studies of the diffusion phenomena in various solar absorber coatings were continued. An experimental model of a solar boiler/heat exchanger was designed. Measurements were made of the thermal conductivity of a candidate pipeline insulation. A computer program was written and applied for determining the heat transfer characteristics of phase-change heat storage media Preliminary data runs were made for a single-phase heat storage system,

N75-28545# Delaware Univ., Newark. Inst. of Energy Conversion.

DIRECT SOLAR ENERGY CONVERSION FOR LARGE SCALE TERRESTIAL USE Annual Report, 1 Jan. - 31 Dec. 1974 K. W. Boer Jan. 1975 170 p refs (Grant NSF GI-34872)

(PB-241007/4; NSF/RANN/SE/GI-34872/PR-74-4;

NSF/RA/N-75-013) Avail: NTIS HC \$6.25 CSCL 10B

Major aspects of the development of the Cu2S/CdS solar cell are presented. Results are reported in the following areas: (1) production of cells of conversion efficiency of 5% (2) Auger, Rutherford backscattering, and energy dispersive X-ray analysis; grain boundary and diffusion length studies; and Cu2S synthesis; (3) diode analysis, spectral response, solar simulation, response uniformity, and junction capacitance; (4) life tests; and (5) diode and light generated currents and the heterojunction

N75-28546# Federal Power Commission, Washington, D.C. Office of Energy Systems.

MEASURE FOR REDUCING ENERGY CONSUMPTION FOR **HOMEOWNERS AND RENTERS**

25 Mar. 1975 24 p

(PB-240472/1) Avail: NTIS HC \$3.25 CSCL 10A

A comprehensive set of measures is described that can lead to a large reduction in the quantity of fuel consumed by the typical residence. It is indicated that the savings given are not additive, since most energy conservation measures interact with one another. In addition, for the two most important areas of space heating and hot water heating, estimates of energy saved for the various options are given for different regions of the

N75-28548# Bureau of Mines, Laramie, Wyo. Energy Research

PRODUCING SNG BY HYDROGASIFYING IN SITU CRUDE SHALE OIL Report of Investigations, 1975

Lawrence K. Barker Feb. 1975 43 p refs

(PB-240841/7; BM-RI-8011) Avail: NTIS HC \$3.75 CSCL 081

The effect of temperature and pressure on the yield and composition of gas which could be obtained from an in situ crude shale oil is determined along with the effect extended operating times would have on gasification. Tests were also made to determine the temperature at which 90 volume-percent of the ethane was converted to methane and whether or not a cobalt-molybdate-on-alumina catalyst plays a significant part in conversion of light hydrocarbons. Both in situ crude shale oil and liquefied petroleum gas were used as feedstocks. Temperatures of 800 degrees to 1,400 degrees F, pressures of 500, 1,000, and 1,5000 psig, and operating times of 19 to 67 hours were used. A cobalt-molybdate-on-alumina catalyst was used for the catalyst experiments.

N75-28551# American Bar Foundation, Chicago, III. PROCEEDINGS OF A WORKSHOP ON SOLAR ENERGY AND THE LAW Interim Report William A. Thomas 1975 34 p Conference held at Arlington,

Va., 10 Feb. 1975

(Grant NSF APR74-21034)

(PB-241051/2; NSF/RA/S-75-004) Avail: NTIS HC \$3.75 CSCL 10A

Topic areas discussed include: restrictions on building design and materials; access to sunlight; fiscal impediments and inducements; zoning; transferable development rights; and innovative land use laws.

N75-28552# Little (Arthur D.), Inc., Cambridge, Mass. THE BENEFITS/COSTS OF TERTIARY OIL RECOVERY Final Report

Dec. 1974 51 p

(Contract DI-BM-JO-155010)

(PB-240463/0; ADL-C-77591; BM-OFR-4-75) Avail: NTIS HC \$4.25 CSCL 081

The benefits of a secondary/tertiary research and development program were considered: (1) savings realized as a result of having cheaper supplementary oil available from tertiary recovery than would be otherwise available under uncertain alternative futures: (2) savings resulting from applying tertiary methods to stripper wells that would otherwise be closed and require more expensive reentry costs at a later time: (3) an alternative view of the benefits of tertiary recovery being equal to the full balance of payments value/barrel of recovered reserves, recovered at an earlier time; (4) value as emergency stockpile; and (5) insurance and portfolio values.

N75-28964# National Planning Association, Washington, D.C. DEMAND FOR SCIENTIFIC AND TECHNICAL MANPOWER IN ENERGY-RELATED INDUSTRIES: UNITED STATES

1970-1985 Final report Ivars Gutmanis, Rita A. McBrayer, Richard P. Mckenna, and Richard Kotz Oct. 1974 249 p refs

(Grant NSF GR-32464)

(PB-240865) Avail: NTIS HC \$7.50 CSCL 051

Requirements for scientists and engineers in the domestic projection of energy in 1985 are reported. Estimates are included only for the following selected industries: electric power generation, transmission and distribution, petroleum and natural gas extraction, and petroleum refining, natural gas production. transmission, and distribution, coal mining; nuclear power production and radioactive waste disposal; manufacture of selected producers durable equipment for electric companies; and energy-related construction.

N75-28967 Texas Univ., Arlington.

APPLICATION OF FAST SPARSE-MATRIX TECHNIQUES AND AN ENERGY ESTIMATION MODEL FOR LARGE TRANSPORATION NETWORKS Ph.D. Thesis Howard Alanson Smolleck 1975 280 p

Avail: Univ. Microfilms Order No. 75-14488

A near-optimal path assignment problem and the development of a model for rapidly estimating the total amount of energy consumed daily by automotive vehicles operating within a large metropolitan area is presented. The development of electric circuit models for large transportation networks and their applications was studied. An algorithm for network alterations and peculiarities

was investigated, and computational techniques for checking and correcting ill-conditioned highway network data were developed. A method for subdividing the highway network into primary and secondary subsystems, in a manner analogous to that used in the solution of electric power-flow problems, was formulated in order to increase solution speed and accuracy. A model for estimating the total vehicular energy consumption within a highway network based upon path assignments is shown.

Dissert. Abstr.

N75-29012* National Aeronautics and Space Administration. Lewis Research Center, Cleveland, Ohio.

THE LONG TERM ENERGY PROBLEM AND AFRONAU.

Richard A. Rudey In its NASA/Univ. Conf. on Aeron. 1975 p 183-210 refs CSCL 10B

The projected increase in energy consumption by transportation in general and civil aviation in particular is directly opposed to the dwindling supplies of natural petroleum crude oil currently used to produce aircraft fuels. This fact dictates the need to develop even more energy conservative aircraft and propulsion systems than are currently available and to explore the potential of alternative fuels to replace the current petroleum derived hydrocarbons. Advances in technology are described in the areas of improved component efficiency, aircraft and engine integration, control systems, and advanced lightweight materials that are needed to maximize performance and minimize fuel usage. Also, improved turbofan and unconventional engine cycles which can provide significant fuel usage reductions are described. These advancements must be accomplished within expected environmental constraints such as noise and pollution limits. Alternative fuels derived from oil shale and coal are described, and the possible technological advancements needed to use these fuels in aircraft engines are discussed and evaluated with relation to potential differences in fuel characteristics.

N75-29269# Illinois Univ., Urbana. Center for Advanced Computation.

ENERGY INTENSITY OF BARGE AND RAIL FREIGHT HAULING

May 1974 18 p refs (Grant NSF GI-35179)

(PB-240012/5; UIUC-CAC-DN-74-127; NSF/RA/N-74-166) Avail: NTIS HC \$3.25 CSCL 21D

Results of an energy comparison per ton mile of competing rail freight vs. inland barge freight, including the effects of circuitry and the use of probable competing rail lines instead of national average rail data are presented.

N75-29270# Webb Inst. of Naval Architecture, Glen Cove,

FUEL CONSERVATION IN SHIP OPERATIONS

Robert Zubaly Jan. 1975 46 p (Contract MA-2-4214)

(COM-75-10466/1; NMRC-KP-133) Avail: NTIS HC \$3.76 CSCL 21D

A study of ways to reduce fuel consumption by both short-term and long-term changes in operational practices has been made, using two typical North Atlantic container fleets as models. Fuel saving strategies are evaluated, all involving reductions in ship speed.

N75-29271# Little (Arthur D.), Inc., Cambridge, Mass. TECHNOLOGY AND CURRENT PRACTICES FOR PROCESS-ING, TRANSFERRING AND STORING LIQUEFIED NATURAL **GAS Final Report**

D. Allan, S. Atallah, E. Drake, R. Hinckley, and S. Mathias Dec. 1974 205 p

(Contract DOT-OS-40171)

(PB-241048/8; ADL-C-76971) Avail: NTIS HC \$7.25 CSCL 21D

Current state-of-the-art safety information related to the design, location, construction, operation and maintenance of facilities required for liquefaction, transfer, storage, and revaporization of natural gas is assembled and summarized. A detailed review of codes, standards and practices pertaining to LNG installations is presented along with an evaluation of present trends in LNG safety requirements. LNG safety research programs completed or in progress are described and key research results summarized. A methodology for quantitative assessment of risks associated with LNG facilities is outlined.

N75-29545# Bureau of Mines, Twin Cities, Minn. Twin Cities Mining Research Center.

EXTRACTING MINERALS FROM GEOTHERMAL BRINES: A LITERATURE STUDY Information Circular, 1974

Rolland L. Blake Dec. 1974 30 p refs (PB-240681/7; BM-IC-8638) Avail: NTIS HC \$3.75 CSCL 081

The Bureau of Mines is concerned with extracting minerals from residual geothermal brines after their heat content and some demineralized water have been recovered. The potential of the domestic geothermal mineral resources, is examined along with the technical problems involved. Possible effects on the environment from reservoir fluid withdrawal and reinjection are outlined

N75-29546*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, Ohio.

THE 100 kW EXPERIMENTAL WIND TURBINE GENERATOR **PROJECT**

Richard L. Puthoff and Paul Sirocky 1975 19 p refs Presented at the Wind Energy Workshop, Washington, D. C., 9-11 Jun. 1975; sponsored by ERDA

(NASA-TM-X-71758; E-8403) Avail: NTIS HC \$3.25 CSCL

The Energy Research and Development Administration and the NASA Lewis Research Center engaged jointly in a Wind Energy Program which included the design and erection of a 100 kW wind turbine generator. This test machine consists of a rotor turbine, transmission, shaft, alternator, and tower. The rotor, measuring 125 feet in diameter and consisting of two variable pitch blades, operates at 40 rpm and generates 100 kW of electrical power at a wind velocity of 18 mph. The entire assembly is placed on top of a tower 100 feet above ground level. The machine was scheduled to be ready for operation in August,

N75-29548*# National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, Ala.

SOLAR ENERGY POWER SYSTEM Patent Application Billy K. Davis, inventor (to NASA) Filed 21 Mar. 1975 17 p (NASA-Case-MFS-21628-2; US-Patent-Appl-SN-561020) Avail: NTIS HC \$3.25 CSCL 10A

A solar energy vapor (Freon) powered system for generating electrical energy for outer space application is described. Features of the system include: storage of the heat's absorbed from the sun by a thermal capacitor in which a mass of Pyrone liquifies when heat is applied and then solidifies to provide a heat output; an efficient solar boiler which uses an anodized titanium surface and a combination of shaped boiler tubes and complimentary reflectors; and a unique arrangement of heat recovery devices. The system provides efficiency in conversion of solar radiation into a heated work medium and in the generation of power from that medium.

N75-29550# Booz-Allen and Hamilton, Inc., Bethesda, Md. ALTERNATIVE STRATEGIES FOR OPTIMIZING ENERGY SUPPLY, DISTRIBUTION, AND CONSUMPTION SYSTEMS ON NAVAL BASES. VOLUME 3: ASSESSMENT OF TOTAL ENERGY SYSTEM APPLICATIONS AT NAVAL FACILITIES Final Report, Feb. - Nov. 1974

D. Kennedy, D. Wulfinghoff, and R. Shaw 20 Nov. 1974 146 p refs

(Contract N62399-73-C-0029)

(AD-A003590; CEL-CR-75.003-Vol-3) Avail: NTIS CSCL

The key topics investigated and discussed are: advanced research in Total Energy Systems; opportunities for heat recovery from prime movers at naval facilities; and feasibility of using in-port steaming to provide power for naval shore facilities.

N75-29552# Colorado Springs Dept. of Public Utilities, Colo. ASSESSMENT OF A SINGLE FAMILY RESIDENCE SOLAR HEATING SYSTEM IN A SUBURBAN DEVELOPMENT SETTING Semiannual Report, 1 Jul. - 31 Dec. 1974 James D. Phillips 10 Jan. 1975 108 p refs

(Grant NSF GI-44210)

(PB-240784/9; NSF/RA/G-74-028) Avail: NTIS HC \$5.25 CSCL 10A

The development is discussed of a solar-heated residence project in Colorado Springs, Colorado. The house and the heating system are described and the status of related informationgathering activities in areas affecting solar heating systems, such as legal, social acceptance, and economic considerations is reported. Outlines of the technical research being conducted, news clippings, and an analysis of the questionnaires completed by persons visiting the house in July, 1974, are included. GRA

N75-29553# Commerce Technical Advisory Board, Washington, D.C.

REVIEW OF PROJECT INDEPENDENCE BLUEPRINT: PANEL SUBCOMMITTEE REPORTS ON FEA-INTERAGENCY TASK FORCES

1975 308 p

(COM-75-10500/7) Avail: NTIS HC \$9.25 CSCL 10B

Data, assumptions, and background information used to develop Project Independence Blueprint are discussed. Topic areas covered include: energy demand/conservation; coal; oil; natural gas; nuclear energy; future energy sources; oil shale; transportation; water and environment; human resources; finance; and materials, equipment, and construction.

N75-29555# Solar, San Diego, Calif. SOLAR 10 KW TURBOALTERNATOR SILENT POWER PROGRAM Final Report, Jan. - Oct. 1974 Jerry S. Todd Nov. 1974 175 p refs

(Contract DAAK02-71-C-0311)

(AD-A006549; ER-2497) Avail: NTIS CSCL 10/2

The report covers effort to design, fabricate and test an enclosure for the 10 kW turboalternator inaudible at 100 meters in a quiet environment. The report includes past effort, present design criteria, acoustical performance and operational capability. The enclosure did meet design intent, but was overweight. GRA

N75-29558# Army War Coll., Carlisle Barracks, Pa. OIL AND US POLICY

Robert L. Day 15 Dec. 1974 33 p refs Revised (AD-A006473; MIRM-74-11-Rev) Avail: NTIS CSCL 05/4

The paper analyzes the rapidly growing demand for energy by the industrialized nations of the world, and the growing importance of Middle East oil. Today, Western Europe and Japan are heavily dependent on Middle East oil, and with U.S. oil production at or near peak capacity, the United States must now also look to the Middle East for ever-increasing amounts of oils-at least through 1985. Russian influence in the international oil market, financial impact of increased imports, the changing role of the international oil companies and available alternatives are discussed. U.S. vulnerability to possible short-term supply interruptions and to longer term shortfalls are projected, and remedial measures discussed.

N76-29559# Reynolds, Smith and Hills, Jacksonville, Fla. ENERGY CONSERVATION STUDY OF VETERANS ADMIN-ISTRATION HOSPITALS. STAGE 1: BASE LINE SURVEY Final Report

Feb. 1974 122 p refs

(Contract V-594P-454)

(PB-241095/9) Avail: NTIS HC \$4.25 HC also available from NTIS \$22.00/set of 4 reports as PB-241094-SET CSCL 10A

A base line survey is presented that identifies and unifies all elements of energy consumption and establishes significant energy parameters at three V.A. hospitals.

N75-29560# Reynolds, Smith and Hills, Jacksonville, Fla. ENERGY CONSERVATION STUDY OF VETERANS AD-MINISTRATION HOSPITALS. STAGE 2: OPERATIONAL STUDY Final Report Feb. 1974 58 p

(Contract V-594P-454)

(PB-241096/7) Avail: NTIS HC \$5.25 HC available from NTIS \$22.00/set of 4 reports as PB-241094-SET CSCL 10A

The programming specifications are presented for a computerbased energy data reporting system to measure and compare management of energy usage for all V.A. hospitals.

N75-29561# Reynolds, Smith and Hills, Jacksonville, Fla. ENERGY CONSERVATION STUDY OF VETERANS ADMIN-ISTRATION HOSPITALS. STAGE 3: HOSPITAL ENERGY CONTROL SYSTEM Final Report

Feb. 1974 92 p refs

(Contract V-594P-454)

(PB-241097/5) Avail: NTIS HC \$4.75 HC also available from NTIS \$20.00/set of 4 reports as PB-241094-SET CSCL 10A

The philosophy, the design, the mathematical details and sample results of the Hospital Energy Control System, a computerized reporting system for monitoring both energy consumption and its conservation, at all V.A. hospitals are presented. A method is included of self-scoring for use by the nospital staff in objectively determining the severity of their own correctional problems. These self-evaluating check lists provide a means of determining each hospital's existing state of thermalintegrity and the needed motivation for energy conservation.

Author

N75-29562# Reynolds, Smith and Hills, Jacksonville, Fla. ENERGY CONSERVATION STUDY OF VETERANS ADMIN-ISTRATION HOSPITALS. STAGE 4: BASIC DETAIL DATA FOR STAGE 1, 2, AND 3 Final Report

Feb. 1974 594 p (Contract V-594P-454)

(PB-241098/3) Avail: NTIS HC \$9.50 HC also available from NTIS \$20.00/set of 4 reports as PB-241094-SET CSCL 10A

For abstract, see N75-29561.

N75-29570# Colorado Springs Dept. of Public Utilities, Colo. Dept. of Public Utilities.

ASSESSMENT OF A SINGLE FAMILY RESIDENCE SOLAR HEATING SYSTEM IN A SUBURBAN DEVELOPMENT SETTING Monthly Report

James D. Phillips 10 Nov. 1974 38 p (Grant NSF GI-44210)

(PB-240553/8; NSF/RA/G-74-018) Avail: NTIS HC \$3.75 CSCL 13A

Briefly discussed are problems and costs relating to a solar house heating system that is on automatic control.

N75-29587# Chicago Univ., III. Center for Urban Studies. ENVIRONMENTAL REGULATIONS AND ENERGY FOR HOME HEATING

Alan S. Cohen, John L. Gardner, and Gideon Fishelson 1974 12 p Prepared in cooperation with Argonne Natl. Lab., III. (Grants NSF AG-352; NSF GI-32989A2)

(PB-240699/9; NSF/RA/E-74-027) Avail: NTIS HC \$3.25 CSCL 21D

This report considers the effects of residential fuel policies on: (1) costs to tenants, landlords, coal distributors and others affected by the regulation, (2) price of fuels, (3) human health and material property, and (4) air quality. The policies compared are: (1) no restrictions, (2) a low sulfur law banning the use of fuels having more than a one percent sulfur content, (3) a coal ban, still allowing oil with no more than a one percent sulfur

content, and (4) a complete ban on the use of coal and oil. Implications for national energy and environmental policies are discussed.

N75-29596# Exxon Research and Engineering Co., Linden, N.J. EVALUATION OF POLLUTION CONTROL IN FOSSIL FUEL GASIFICATION. PROCESSES: CONVERSION SECTION 1: CO2 ACCEPTOR PROCESS Final Report C. E. Jashing and E. M. Magee Dec. 1974 68 p refs (Contract EPA-68-02-0629) (PB-241141/1; EPA-850/2-74-009D) Avail: NTIS HC \$4.25 CSCL 07A

Results are given of a review of the CO2 Acceptor Coal Gasification Process from the standpoint of its effect on the environment. The quantities of solid, liquid, and gaseous effluents are estimated, where possible, as well as the thermal efficiency of the process. For the purpose of reducing environmental impact, a number of possible process modifications or alternatives are proposed and new technology needs are pointed

N75-29597# Environmental Protection Agency, Research Triangle Park, N.C. Office of Air Quality Planning Standards. REPORT TO CONGRESS ON CONTROL OF SULFUR OXIDES

Feb. 1975 68 p refs (PB-241021/5; EPA-450/1-75-001; APTIC-75097) Avail: NTIS HC \$4.25 CSCL 13B

The compliance status of existing coal-fired steam electric power plants is discussed along with alternative methods for compliance with applicable emission regulations. Compliance alternatives include the use of low-sulfur coal, physical coal desulfurization, flue-gas desulfurization, coal gasification, fluidizedbed boilers, supplementary control systems, and energy recovery from solid waste. A review is presented showing the current status of existing coal-fired plants in terms of the sulfur content of coal purchased during the first half of 1974, the involvement of power companies in litigation challenging the applicable regulations, and the programs for achieving compliance with sulfur regulations in State Implementation Plans.

N75-29962# Mathematics and Computation Lab., McLean, Va. THE MCL-THUROW MODEL SUPPLEMENT Final Report Patricia R. Devine Feb. 1975 117 p (PB-241113/0; GSA/OP/MCL-TR-96) Avail: NTIS HC \$5.25 CSCL 05C

Changes and additions to the model, notably the updating to a 1972 model and the extension of the Personal Consumption Expenditures submodel are reported. A new module in the Contingency Impact Analysis System is also described.

N75-29963# Little (Arthur D.), Inc., Cambridge, Mass. **ECONOMIC IMPACT OF SHORTAGES ON THE FERTILIZER** INDUSTRY Final Report Jan. 1975 259 p

(Contract FEA-C-50068-00)

(PB-240418/4; ADLC-77382; FEA/EI-50068) Avail: NTIS HC \$8.50 CSCL 07A

Information is provided on the basic structure, characteristic, and problems of the fertilizer industry. Particular emphasis is placed on fuel use and substitutability as well as the impact of fertilizer on farm production.

N75-30331# GCA Corp., Bedford, Mass. Technology Div. WASTE AUTOMOTIVE LUBRICATING OIL REUSE AS A FUEL Socioeconomic Environmental Studies Series. Steven Chansky, James Carroll, Benjamin Kincannon, James Sahagian, and Norman Surprenant Sep. 1974 218 p (Contract EPA-68-01-1859) (PB-241357/3; EPA-600/5-74-032) Avail: NTIS; SOD HC CSCL 21D

This study evaluates the technical, economic, and environmental feasibility of automotive waste oil reuse as a fuel. The supply and potential marketability of waste oil fuel is considered in relationship to existing and projected fossil fuel usage in the United States. Its use will alleviate a serious waste oil disposal problem. The physical and chemical properties of waste oil are presented and serve as the basis for subsequent assessment of waste oil usage options: the use of untreated waste oil as a blended fuel oil or as a supplement to coal combustion and the use of waste oil following treatment to alleviate technical and environmental impacts. Various treatment methods are discussed and their cost and effectiveness assessed. The reduction of environmental impacts by the use of particulate emission control system and industrial utilization of fuel and control equipment are discussed.

N75-30438*# Duke Univ., Durham, N.C. Dept. of Electrical Engineering.

DESIGN OF ENERGY STORAGE REACTORS FOR dc-TO-dc CONVERTERS Ph.D. Thesis
De Yu Chen 18 Aug. 1975 188 p refs

(Grant NGL-34-001-001)

(NASA-CR-143327) Avail: NTIS HC \$7.00 CSCL 09C

Two methodical approaches to the design of energy-storage reactors for a group of widely used dc-to-dc converters are presented. One of these approaches is based on a steady-state time-domain analysis of piecewise-linearized circuit models of the converters, while the other approach is based on an analysis of the same circuit models, but from an energy point of view. The design procedure developed from the first approach includes a search through a stored data file of magnetic core characteristics and results in a list of usable reactor designs which meet a particular converter's requirements. Because of the complexity of this procedure, a digital computer usually is used to implement the design algorithm. The second approach, based on a study of the storage and transfer of energy in the magnetic reactors, leads to a straightforward design procedure which can be implemented with hand calculations. An equation to determine the lower-bound volume of workable cores for given converter design specifications is derived. Using this computer lower-bound volume, a comparative evaluation of various converter configurations is presented. Author

N75-30524* National Aeronautics and Space Administration. Pasadena Office, Calif.

ELECTRIC POWER GENERATION SYSTEM DIRECTORY FROM LASER POWER Patent

Katsunori Shimada, inventor (to NASA) (JPL) Issued 12 Aug. 1975 7 p Filed 27 Mar. 1974 Supersedes N74-19702 (12 -11, p 1250) Sponsored by NASA (NASA-Case-NPO-13308-1; US-Patent-3,899,696;

US-Patent-Appl-SN-455165; US-Patent-Class-310-4;

US-Patent-Class-331-DIG.1) Avail: US Patent Office

A pool of liquid cesium is spaced apart from a collector in an enclosed vessel. A laser beam is directed to the liquid cesium pool. The beam is focused to provide sufficient laser power density at the liquid cesium surface to vaporize some of the liquid cesium and ionize the vaporized cesium, and thereby form cesium ions and free electrons. The work function of the collector is different from that of cesium. When the work function is higher, the formed ions are attracted to the collector, and the electrons are attracted by the figuid cesium. Electrons and ions are attracted by the collector and liquid cesium respectively when the work function of the collector is less than that of cesium. Thus, a potential difference is generated by the liquid cesium pool and the collector, sufficient to apply electric power to a load.

Official Gazette of the U.S. Patent Office

N75-30646# Federal Power Commission, Washington, D.C. NATURAL GAS ACT, 1 MARCH 1974

1 Mar. 1974 58 p Avail: SOD HC \$0.70

Legislation is presented which regulates the transportation of natural gas in interstate commerce, the sale in interstate commerce of natural gas for resale for ultimate public consumption, and the natural gas companies engaged in such transportation J.M.S. or sale.

N75-30648# Joint Publications Research Service, Arlington,

SCIENTIFIC RESEARCH IN POWER ENGINEERING

V. M. Fil'kov and A. A. Troitskiy 8 Aug. 1975 22 p refs Transl. into ENGLISH from Teploenerg (Moscow), no. 5, 1975 p 8-11

(JPRS-65422) Avail: NTIS HC \$3.25

Data are reported on scientific research of the U.S. and U.S.S.R. in the power engineering field.

N75-30649*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, Ohio. LIQUID-METAL BINARY CYCLES FOR STATIONARY POWER

Martin Gutstein, Edward R. Furman, and George M. Kaplan Washington Aug. 1975 33 p refs (NASA-TN-D-7955; E-8023) Avail: NTIS HC \$3.75 CSCL 10A

The use of topping cycles to increase electric power plant efficiency is discussed, with particular attention to mercury and alkali metal Rankine cycle systems that could be considered for topping cycle applications. An overview of this technology, possible system applications, the required development, and possible problem areas is presented.

N75-30659# Energy and Environmental Analysis, Inc., Arlington, Va.

PROJECTED REGIONAL ENERGY AVAILABILITY IN 1985 Final Report, 1 Jul. 1974 - 15 Jan. 1975 15 Jan. 1975 100 p

(Contract DAAK02-75-C-0080; DA Proj. 4A7-62719-A-886) (AD-A008938) Avail: NTIS CSCL 10/1

Fixed Army facility energy requirements, in the context of national and regional energy trends through 1985, are evaluated. The national energy outlook in terms of the availability and price of various sources of energy is discussed. Demand and price forecasts are made for each energy source for each of nine census regions. Fixed Army Facility energy demands are forecasted within the nine regions by type of energy required.

N75-30660# Office of the Chief of Engineers (Army), Washington, D.C. Studies Group.

ARMY INSTALLATION ENERGY REQUIREMENTS IN **CONUS Final Report**

Jan. 1975 147 p refs (AD-A008951) Avail: NTIS CSCL 10/1

This report displays data relevant to current (FY 73) energy consumption and gives estimates of projected 1990 energy requirements at 75 Army installations in the Continental U.S. The current (FY 73) consumption of electrical energy is characterized by 10 energy regions and by type of installation. The totals for fuel consumption are presented by region, type of fuel, and size of boiler and heating plants. Future electrical energy requirements for troop installations were estimated based on projected populations combined with FY 73 per capita consumption at each installation. Estimates for other installations were based on an estimated or assumed activity level. This study estimates a 7.2% increase in electrical energy requirements by 1990 and a 3.4% reduction in fuel requirements. GRA

N75-30665# National Academy of Sciences - National Research Council, Washington, D.C.

MATERIALS TECHNOLOGY IN THE NEAR-TERM ENERGY PROGRAM

Dec. 1974 129 p refs

(Grant NSF C-310)

CSCL 10B

(PB-240942/3; ISBN-0-309-02322) Avail: NTIS. HC \$5.75

Materials research and development is reported that could affect energy supply and demand during the period prior to 1985. Assessed are major energy programs that can have significant impact within the time frame, including coal gasification and liquefaction, oil shale, high temperature gas turbines, and the use of critical elements. The capital investment estimates and the impact of materials technology in each are discussed. Other energy programs are also discussed, including nuclear power reactors, energy storage, and geothermal, nuclear, and solar energy sources.

N75-30667# Minnesota Univ., Minneapolis. Dept. of Management Sciences.

REGIONAL IMPACTS OF ALTERNATIVE ENERGY ALLOCA-TION STRATEGIES

Wilbur R. Maki and Peter C. Knobloch 1 May 1974 27 p refs Presented at 6th Ann. Meeting of the Mid-Continent Regional Sci. Assoc., Urbana, III., 5-6 Apr. 1974 (PB-241125/4; MEA/RIAE-74/8) Avail: NTIS HC \$3.75 CSCL 05B

The impacts are considered of the energy crisis and its shortages on the energy management decision process, and the specific gainers and losers of allocation strategies, with tradeoffs in costs of having or not having energy information. Input/output models are discussed, as are industrial/household-use data for operational decision making; energy stocks and flow, facility locations with their impacts, as well as data collection and analysis as they relate to industrial growth and employment and to services and materials, are reviewed. Economic tradeoffs of individual allocation criteria are estimated. The input/output framework is used to achieve consistency in the total set of economic variables in the economic information for energy planning.

N75-30668# National Academy of Sciences - National Research Council, Washington, D.C. Building Research Advisory Board. SOLAR HEATING/COOLING OF BUILDINGS: CURRENT **BUILDING COMMUNITY PROJECTS** Interim Report 1974 47 p

(Contract NSF C-310)

(PB-241117/1) Avail: NTIS HC \$3.75 CSCL 13A

Brief descriptions of 21 projects involving the use of solar energy for heating and cooling buildings are presented. GRA

N75-30944# Minnesota Univ., Minneapolis. Dept. of Management Sciences.

A REGIONAL ENERGY INFORMATION SYSTEM FOR MINNESOTA: A PRELIMINARY DESIGN

Norman L. Chervany, J. David Naumann, Ralph Krishnan, Daniel Quillin, and John Schmitt Jan 1975 135 p Sponsored by Minnesota Energy Agency, St. Paul

(PB-241124/7; MEA/REIS-7502) Avail: NTIS HC \$5.75 CSCL 05B

A state's (Minnesota's) energy system, with its socio-economic plans that take energy constraints into consideration, is reviewed for policy makers. Four types of data, (1) energy supply/ distribution/consumption data, (2) demographic data, (3) economic data, and (4) engineering data are found to be needed to support the short run energy allocation problems and long run energy planning problems. Preliminary design of a regional energy information system in this report. The system is designed to collect, store, and report the supply/distribution/consumption data. This data category was focused on primarily. Timely, valid data on energy supply, distribution, and consumption are technically feasible to obtain. GRA

N75-30945# Minnesota Univ., Minneapolis. Management Sciences.

MASTER PLAN FOR REIS IMPLEMENTATION Final Report

Peter C. Knobloch Aug. 1974 52 p Sponsored by Minnesota Energy Agency, St. Paul (PB-241126/2; MEA/REIS/WP-7408) Avail: NTIS HC \$4.25

Implementation requirements of the regional energy informa-

tion system (REIS) and provision of a brief cost/benefit analysis of the proposed system is discussed. Divided into four sectors (problems, requirements, the present system, and the proposed implementation of REIS), the development of a demonstration data base, its implementation and that of the regional input-output model as a tool for decision makers are subjects of the report. The accounting subsystem and energy flow network model are two main components; the need to identify specific problems, to gather information on source, energy type, location, use, time with cross classification, the structure of REIS with parameter subsystem, and a description of the study area (N.E. Minnesota) are included.

N75-30946# Minnesota Univ., Minneapolis. Dept. of Management Sciences.

DESIGN CONSIDERATIONS FOR A COMPREHENSIVE REGIONAL ENERGY INFORMATION SYSTEM

J. D. Naumann, P. C. Knobloch, and N. L. Chervany 1 Jul. 1974 35 p Sponsored by Minnesota Energy Agency. St. Paul (PB-241123/9; MEA/REIS/WP-7401) Avail: NTIS HC \$3.75 CSCL 05B

The regional energy information systems (REIS) concerns itself with decision making on substate, state, and regional levels in emergencies, for tactical decisions, and long-range strategic policies by both government and industry. Effective access to energy information is critical, and REIS is designed to provide a standardized data base with design goals, constraints, parameters, and schedules. The REIS system is being developed; many states, the FEA, and other agencies are developing energy information systems. Shareability of data must be sought, and both technical and procedural requirements for this are discussed, and a plan for action is presented.

N75-30948# National Bureau of Standards, Washington, D.C. NATIONAL BUREAU OF STANDARDS ANNUAL REPORT: FISCAL YEAR 1974 Final Report

Dick Franzen, ed. Mar. 1975 36 p Supersedes NBS-SP-397 (COM-75-10465/3; NBS-SP-418; NBS-SP-397) Avail: NTIS MF \$2.25; SOD HC as C13.10:418 CSCL 05B

The document described how resources were utilized during fiscal year 1974 and highlights major achievements. Brief discussions are included of accomplishments within major program areas. The report serves as (1) an annual account of NBS activities and (2) promotional information about NBS. The table of contents includes: standards for daily living: expanding measurement capabilities; toward solving the energy problem; improving man's environment; striving for safer products; aiding health care; advancing computer technology; public interests; government projects; industry cooperation; and information services. GRA

N75-31074* National Aeronautics and Space Administration. Lewis Research Center, Cleveland, Ohio.

FUEL-CONSERVATIVE ENGINE TECHNOLOGY

James F. Dugan, Jr., John E. McAulay, Thaine W. Reynolds, and William C. Strack *In its* Aeron. Propulsion 1975 p 157-190

CSCL 21E

Aircraft fuel consumption is discussed in terms of its efficient use, and the conversion of energy from sources other than petroleum. Topics discussed include: fuel from coal and oil shale, hydrogen deficiency of alternate sources, alternate fuels evaluation program, and future engines.

N75-31165 AEG-Telefunken, Hamburg (West Germany). Dept. of Space Technology and New Technologies.

SOLAR GENERATOR AND POWER SYSTEMS FOR COM-MUNICATION SATELLITES

Rainer Hehnen and Joachim Rath In ESRO European Capabilities for Space Appl. 1975 14 p

State of the art and development activities on solar generators are discussed. Power conditioning and power storage equipment, including onboard equipment and electrical ground support equipment, are also considered. N75-31285# Politecnico di Torino (Italy). Ist. di Macchine e Motori per Aeromobili.

CONTRIBUTION TO THE IMPROVEMENT OF THE REGULA-TING PROCESS OF IGNITION CONTROLLED ENGINES [CONTRIBUTO AL MIGLIORAMENTO DELLA CAR-ATTERISTICA DI REGOLAZIONE DEI MOTORI AD AC-CENSIONE COMANDATA]

Enrico Antonelli and Guido Colasurdo Jul. 1974 50 p refs In ITALIAN

(Publ-165) Avail: NTIS HC \$3.75

A search for new methods of automobile fuel saving was carried out using a device to anticipate the closing of the aspiration valve. The corresponding mechanical set up is detailed and the method for determining the closure law is discussed by means of a specific fluid dynamic model: the equations are numerically solved. Special care is devoted to boundary values at cylinder level, valve level, and ducts, and to initial conditions and main engine characteristics. For velocities between 1000 and 6000 rpm the net theoretical saving is of the order of a few percent.

N75-31341 Texas Univ., Austin.

AN ASSESSMENT OF THE APPLICABILITY OF HIGH VOLTAGE AC CIRCUIT BREAKERS TO INDUCTIVE ENERGY STORAGE Ph.D. Thesis

Robert Bruce McCann 1975 147 p

Avail: Univ. Microfilms Order No. 75-16707

High voltage ac circuit breakers are attractive candidates for the current interrupter in Inductive Energy Storage (IES) systems with energy transfer times of 0.5 to 50 ms. The various types of high voltage circuit breakers are considered, and vacuum circuit breakers are selected as the most desirable for IES applications. In designing the IES circuits, it is assumed that the circuit breakers must be operated within the appropriate 60 Hz ratings. Two IES systems are considered as examples: a fusion feasibility experiment based on a staged theta pinch; and the turbulent heating of a proposed Tokamak fusion feasibility device. An optimization model is developed which considers economic as well as engineering factors in determining the conditions under which ac circuit breakers are applicable to IES. For inductive loads it is found that energy delivery times as short as about 1.0 ms are practical while for resistive loads this might be extended to 500 microns. In either case, the energy transfer time should not be less than twenty times greater than the circuit breaker dionization time. Dissert. Abstr.

N75-31556# Committee on Commerce (U. S. Senate).
OIL AND GAS DEVELOPMENT AND COASTAL ZONE
MANAGEMENT

Washington GPO 1974 454 p refs Hearings before Natl. Ocean Policy Study of Comm. on Commerce, 93d Congr., 2d Sess., 23-25 Apr., 2 May and 22 May 1974 (GPO-37-347) Avail: Comm. on Commerce

Oil and gas extraction on the outer continental shelf is discussed along with the environmental, economic and social impact upon the coastal zone. Topics discussed include land and natural resources, oil drilling and exploration, nuclear power plants and oil leasing.

M.J.S.

N75-31562# Massachusetts Inst. of Tech., Cambridge. Sea Grant Project Office.

THE OCS (OUTER CONTINENTAL SHELF) PETROLEUM PIE Final Report

J. W. Devanney 28 Feb. 1975 132 p refs (Grant NOAA-NG-43-72)

(COM-75-10599/9; MITSG-75-10; NOAA-75041105) Avail: NTIS HC \$5.75 CSCL 081

This report analyzes a range of alternatives for managing Outer Continental Shelf (OCS) petroleum from the point of view of national income, public income, and developer income. The economic value of the resource is reviewed, and estimates of unit resource costs obtained for a range of find sizes, water depths and design wave heights. The basic result is that the economic rent associated with yet-to-be-discovered OCS

petroleum could easily be in the hundreds of billions of dollars. Management alternatives examined include work obligation permitting, bonus bidding, royalty bidding, profits bidding, and public exploratory drilling followed by bonus bidding. Special emphasis is given the latter option and the ramifications and problems of this system examined in some detail.

N75-31566# Select Committee on Small Business (U. S. House).
ENERGY DATA REQUIREMENTS OF THE FEDERAL
GOVERNMENT. PART 4: PROPANE AND CRUDE OIL;
CONFLICTS OF INTEREST

Washington GPO 1974 507 p refs Hearings before Subcomm. on Activities of Regulatory Agencies of Permanent Select Comm. on Small Business, 93d Congr., 2d Sess., 24-26 Sep.; 2-3 Oct. 1974

(GPO-41-639) Avail: Subcomm. on Activities of Regulatory Agencies

Energy data on which Federal government energy policy in the propane and crude oil allocation program is based are examined. Factors discussed include: lack of data and economic analysis and the existence of a potential conflict of interest. Economic justifications underlying the propane and crude oil allocation regulations are examined. It is recommended that all conflicts of interest be investigated and that the existing conflict of interest statutes be vigorously enforced.

J.M.S.

N75-31567# Committee on Science and Astronautics (U. S. House).

SOLAR ENERGY RESEARCH, DEVELOPMENT, AND DEMONSTRATION ACT OF 1974

Washington GPO 1974 384 p refs Hearings on H.R. 15612 before Subcomm. on Energy of Comm. on Sci. and Astronaut., 93d Congr., 2d Sess., No. 42, 30 Jul. and 2 Aug. 1974 (GPO-39-827) Avail: Subcomm. on Energy

Hearings were held before the Subcommittee on Energy of the Committee on Science and Astronautics of the U.S. House of Representatives on July 30 and August 2, 1974 to discuss H.R. 15612, a bill on solar energy research, development, and demonstration. The objective of this bill is to further the conduct of research, development, and demonstrations in solar energy technologies, to establish a solar energy coordination and management project, to amend the National Science Foundation Act of 1950 and the National Aeronautics and Space Act of 1958, to provide for scientific and technical training in solar energy, to establish a Solar Energy Research Institute, to provide for the development of suitable incentives to assure the rapid commercial utilization of solar energy, and for other purposes.

Author

N75-31568*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, Ohio.

SOLAR COLLECTOR PERFORMANCE EVALUATION WITH THE NASA-LEWIS SOLAR SIMULATOR-RESULTS FOR AN ALL-GLASS-EVACUATED-TUBLAR SELECTIVELY-COATED COLLECTOR WITH A DIFFUSE REFLECTOR

Frederick Simon Apr. 1975 30 p refs (NASA-TM-X-71695; E-8289) Avail: NTIS HC \$3.75 CSCL 10A

A solar collector was tested in a solar simulator for inlet temperatures of temperatures of 70 to 200 F, flux levels of 230 and rate of 7 lb/(hr)(sq. ft), and incident angles of 0 deg, 33 deg, and 52 deg. Test results plotted in a form suggested by analysis indicate a very low heat loss coefficient. The collector shows excellent performance on an all-day performance basis, and also for conditions corresponding to temperatures required in solar Rankine systems and/or for low flux level radiation.

Autho

N75-31570°# Old Dominion Univ., Norfolk, Va. School of Engineering.

INVESTIGATION OF CURRENT UNIVERSITY RESEARCH CONCERNING ENERGY CONVERSION AND CONSERVATION IN SMALL SINGLE-FAMILY DWELLINGS Final Technical Report, 7 Apr. - 7 Aug. 1975

G. R. Grossman and A. S. Roberts, Jr. 7 Aug. 1975 87 p refs

(Grant NsG-1172)

(NASA-CR-143430; TR-75-T11) Avail: NTIS HC \$4.75 CSCL 10A

An investigation was made of university research concerning energy conversion and conservation techniques which may be applied in small single-family residences. Information was accumulated through published papers, progress reports, telephone conversations, and personal interviews. A synopsis of each pertinent investigation is given. Finally, a discussion of the synopses is presented and recommendations are made concerning the applicability of concepts for the design and construction of NASA-Langley Research Center's proposed Technology Utilization House in Hampton, Virginia.

N75-31571*# Georgia Inst. of Tech., Atlanta. Engineering Experiment Station.

BENEFIT-COST METHODOLOGY STUDY WITH EXAMPLE APPLICATION OF THE USE OF WIND GENERATORS Final Report

R. P. Zimmer, C. G. Justus, R. M. Mason, S. L. Robinette, P. G. Sassone, and W. A. Schaffer Jul. 1975 411 p refs (Contract NAS3-17827)

(NASA-CR-134864; A-1645) Avail: NTIS HC \$10.50 CSCL 10A

An example application for cost-benefit methodology is presented for the use of wind generators. The approach adopted for the example application consisted of the following activities: (1) surveying of the available wind data and wind power system information, (2) developing models which quantitatively described wind distributions, wind power systems, and cost-benefit differences between conventional systems and wind power systems, and (3) applying the cost-benefit methodology to compare a conventional electrical energy generation system with systems which included wind power generators. Wind speed distribution data were obtained from sites throughout the contiguous United States and were used to compute plant factor contours shown on an annual and seasonal basis. Plant factor values (ratio of average output power to rated power) are found to be as high as 0.6 (on an annual average basis) in portions of the central U. S. and in sections of the New England coastal area. Two types of wind power systems were selected for the application of the cost-benefit methodology. A cost-benefit model was designed and implemented on a computer to establish a practical tool for studying the relative costs and benefits of wind power systems under a variety of conditions and to efficiently and effectively perform associated sensitivity analyses. Author

N75-31573*# National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, Tex. TECHNOLOGY SURVEY OF ELECTRICAL POWER GENERATION AND DISTRIBUTION FOR MIUS APPLICATION William L. Gill and Tony E. Redding Jul. 1975 72 p refs (NASA-TM-X-58127; JSC-08661) Avail: NTIS HC \$4.25 CSCL

Candidate electrical generation power systems for the modular integrated utility systems (MIUS) program are described. Literature surveys were conducted to cover both conventional and exotic generators. Heat-recovery equipment associated with conventional power systems and supporting equipment are also discussed. Typical ranges of operating conditions and generating efficiencies are described. Power distribution is discussed briefly. Those systems that appear to be applicable to MIUS have been indicated, and the criteria for equipment selection are discussed. Author

N75-31575# National Bureau of Standards, Boulder, Colo. Inst. for Basic Standards.

SELECTED TOPICS ON HYDROGEN FUEL Final Report W. R. Parrish, R. O. Voth, J. G. Hust, T. M. Flynn, and J. Hord May 1975 215 p refs

(COM-75-10619/5; NBS-SP-419) Avail: NTIS MF \$2.25; SOD HC as C13.10:419 CSCL 21D

A summary report on selected hydrogen-fuel topics is given. These data were prepared to identify cost and technical barriers to the commercial use of hydrogen fuel and to generate reference data for policy-planning, decision-making and design. Cryogenic

hydrogen fuel technology is emphasized in the economic and systems analyses. Research and development needs within selected areas of NBS competence are identified and future research plans are outlined. GRA

N75-31579# Oceanic Foundation, Waimanalo, Hawaii. SEAWARD EXTENSION OF URBAN SYSTEMS: FEASIBILITY OF OFFSHORE COAL-FIRED ELECTRICAL POWER GENERATION

Isao Roy Yumori Jan. 1975 125 p

(Grant NOAA-04-3-158-29)

(COM-75-10592/4; UNIHI-SEAGRANT-CR-75-02; TR-7; NOAA-75041807) Avail: NTIS HC \$5.25 CSCL 10B

With dwindling supplies and escalating costs of petroleum. coal appears to offer the most attractive near-term energy resource. particularly for stationary electrical power generation. This report explores three configurations of offshore coal-fired electrical power plants in the 500 Mw capacity range and chooses a pylon moored barge configuration for more detailed study. Ocean siting is technically feasible and, since certain ocean siting economic advantages (assembly line production and inexpensive fuel delivery, and the obviated need for site preparation and cooling towers) can balance the increased costs of marine structures and underwater cables, it can be economically attractive as well.

GRA

N75-31580# Defense Documentation Center, Alexandria, Va. ENERGY CONVERSION Report Bibliography, Aug. 1973 -Nov. 1974

Apr. 1975 145 p refs

(AD-A009600; DDC-TAS-75-6) Avail: NTIS CSCL 10/1

This bibliography presents a brief scattering of abstracts of DOD research reports concerned with energy conversion GRA

N75-31581# Illinois Univ., Urbana. Water Resources Center. PROCEEDINGS OF THE WORKSHOP ON RESEARCH NEEDS RELATED TO WATER FOR ENERGY

Glenn E. Stout Nov. 1974 299 p refs Workshop held at Indianapolis, 20-22 Oct. 1974

(Contract DI-14-31-0001-4271)

(PB-241346/6; UILU-WRC-74-0093; W75-07089;

OWRT-X-147(4271)(1)) Avail: NTIS HC \$8.75 CSCL 10A Development of large scale energy conversion facilities and

their impact on water resources in the Ohio River, Great Lakes and Upper Mississippi River basins was studied at an interdisciplinary workshop. Within limits determined by available water resources and minimization of environmental impact, participants identified areas in which research will be needed if energy conversion facilities are developed. Coal gasification and liquefaction received special emphasis. Included are two papers on coal conversion processes and related water requirements, nine papers with commentaries related to main topic and reports of discussion groups which identify research needs and rank them in import-

N75-31582# Federal Energy Administration, Washington, D.C. Office of Energy Data Policy. SOLAR ENERGY PROJECTS OF THE FEDERAL GOVERN-

Howard L. Magnus Jan. 1975 133 p refs (PB-241620/4; FEA/C-75/247) Avail: NTIS HC \$6.25 CSCL

This report identifies 171 solar energy projects administered by 14 different Federal agencies between July 1973 and January 1975. Solar categories included are: heating and cooling of buildings; wind energy conversion; solar thermal conversion; ocean thermal conversion; photovoltaic electric power systems; and bioconversion to fuels. An introductory chapter provides an overview and analysis of the Federal effort in solar energy and categorizes projects by agency, the amount of funding, and the major program areas. Appendices provide brief summaries of each of the 171 projects.

N75-31610# Pennsylvania State Univ., University Park. Center for the Study of Environmental Policy.

FINANCIAL INCENTIVES AND POLLUTION CONTROL: A CASE STUDY

Terry A. Ferrar, Alan B. Brownstein, John D. Simpson, and Sally Streiter Apr. 1975 59 p refs (Contract EPA-68-01-2250)

(PB-241479/5; EPA-600/5-75-007) Avail: NTIS HC \$4,25 CSCL 13B

Confronted with shortages of low-sulfur content residual fuel oil, several air pollution control authorities in the northeastern states were forced to relax air quality standards during the winters of 1972-73 and 1973-74. The authorities did so by granting variances to their sulfur-content standards for residual fuel oil. The characteristics of these variances provide the social test-tube or this analysis. The report examines alternative policies such as direct regulation, fuel-oil surcharges, emission taxes and quantity control.

N75-31910# Institut Franco-Allemand de Recherches, St. Louis

PROGRESS OF ISL RESEARCH ON ENERGY CONVERSION IN FERROELECTRIC CERAMICS OF THE TYPE Pb(ZrlxTix) 03 [ETAT ACTUEL DES RECHERCHES A L'ISL SUR LES PROBLEMES DE CONVERSION D'ENERGIE A L'AIDE DE CERAMIQUES FERROLECTRIQUES DU TYPE Pb(ZrL-xTix) 031

F. Bauer 22 Oct. 1974 8 p refs in FRENCH Presented at the Reunion Franc. de Ferroelectricite, Nantes, France, 27 Sep.

(ISL-29/74) Avail: NTIS HC \$3.25

Adiabatic depolarization of prepolarized ferroelectric ceramics by a plane shockwave was studied. The shock wave at the interface of a missile has a velocity of 200 m/s and the ceramic has an intensity of 20 kbar and lasts a few microseconds. The electric energy liberated by a 10 mm diameter and 0.5 mm thickness Pb(2r 0.965 TiO.035)(03+1percent Nb205) disk attained 4500 V after 100 ns and decreased thereafter while pressure remains on a plateau value. Phase transitions or nonlinear piezoelectric behavior are hypothesized.

N75-31918# Committee on Labor and Public Welfare (U. S. Senate).

EFFECTS OF THE ENERGY CRISIS ON EMPLOYMENT DISLOCATION, 1974

Washington GPO 1974 101 p Hearing before Subcomm. on Labor of Comm. on Labor and Public Welfare, 93d Congr.. 2d Sess., 12 Feb. 1974

(GPO-35-761) Avail: Subcomm. on Labor

The impact of the energy crisis on the state of New Jersey is discussed. Testimony is provided on the impact of the energy crisis on the state of New Jersey. Topics discussed include: unemployment due to plant closings and inability to get to work; public and private transportation; price of gasoline and oil; and necessity of conservation. J.M.S.

N75-31953# Committee on Interior and Insular Affairs (U. S.

PROVIDING FOR A NATIONAL FUELS AND ENERGY CONSERVATION POLICY, ESTABLISHING AN OFFICE OF ENERGY CONSERVATION IN THE DEPARTMENT OF THE INTERIOR, AND FOR OTHER PURPOSES

Haley Washington GPO 10 Dec. 1974 accompany H. R. 11343 presented by the Comm. on Interior and Insular Affairs, 93d Congr., 2d Sess., 10 Dec. 1974 (H-Rept-93-1546; GPO-38-006) Avail: US Capitol, House

Document Room Amended provisions of the bill for a national fuels and energy conservation policy are presented. The bill provides for the establishment of an energy conservation program to regulate the national rate of growth in energy use and a Council on

Energy Policy. Major elements of the program are described J.M.S. and analyzed.

N75-31954# Committee on Public Works (U. S. Senate). THE NEED FOR A NATIONAL MATERIALS POLICY, PART 1

Washington GPO 1974 463 $\bar{\alpha}$ refs Hearings before Panel on Materials Policy of Subcomm. on Environ. Pollution of Comm. on Public Works, 93d Congr., 2d Sess., 11-13 Jun. 1974 (GPO-39-885) Avail: Subcomm. on Environ. Pollution

Testimony is provided on policy issues related to the creation of a national materials recovery policy. Emphasis is placed on disposal of hazardous wastes, such as, toxic chemical, biological, and radioactive wastes, waste utilization and the relationship of the Federal government with State and local governing bodies in solid waste management and resource recovery. Other topics discussed include: waste reduction, recycling, environment protection, and resource and energy conservation.

N75-31955# Committee on Public Works (U. S. Senate). THE NEED FOR A NATIONAL MATERIALS POLICY, PART 2

Washington GPO 1974 786 p refs Hearings on S. 3560, S. 3549, S. 1086, S. 3277, and S. 3954 before Panel on-Materials Policy of Subcomm. on Environ. Pollution of Comm. on Public Works, 93d Congr., 2d Sess., 9-11 Jul. and 15-16 Jul. 1974

(GPO-40-687) Avail: Subcomm. on Environ. Pollution

Legislative proposals that attempt to deal with the solid waste management and resource recovery problem facing American cities are reviewed. Waste management and utilization is discussed in terms of energy conversion, conservation, and recovery. Factors discussed include: waste reduction, recycling, pyrolysis, compositing, improved waste disposal techniques, efficient use of natural resources, and materials recovery. J.M.S.

N75-31956# Committee on Public Works (U. S. Senate). THE NEED FOR A NATIONAL MATERIALS POLICY, PART 3

Washington GPO 1974 992 p refs Hearings on S. 3560, S. 3549, S. 1086, S. 3277, and S. 3954 before Panel on Materials Policy of Subcomm. on Environ. Pollution of Comm. on Public Works, 93d Congr., 2d Sess., 17-18 Jul. 1974 (GPO-40-687) Avail: Subcomm. on Environ. Pollution

Testimony is given by the private sector on recommendations for solid waste disposal and utilization legislation. Factors discussed include: materials recovery, marketing of by-products; recycling, hazardous wastes disposal, and increased use of recovered materials by the Federal government.

J.M.S.

N75-31957# Committee of Conference (U. S. Congress). SPECIAL ENERGY RESEARCH AND DEVELOPMENT APPROPRIATION ACT, 1975

Washington GPO 30 Jun. 1974 5 p H. R. 14434 enacted into law by the 93d Congr., 30 Jun. 1974

(Pub-Law-93-322; GPO-38-139) Avail: US Capitol, House Document Room

An act making appropriations for energy research and development activities of certain departments, independent executive agencies, bureaus, offices, and commissions for the fiscal year ending June 30, 1975, and for other purposes is described.

N75-31958# Committee on Commerce (U. S. Senate). OUTER CONTINENTAL SHELF OIL AND GAS LEASING OFF SOUTHERN CALIFORNIA: ANALYSIS OF ISSUES

Washington GPO Nov. 1974 99 p refs Prepared for the Comm. on Commerce pursuant to S. Res. 222, 93d Congr., 2d Sess., 12 Nov. 1974

(GPO-41-659) Avail: SOD HC \$1.35

A brief history of the development of Southern California offshore continental shelf (OCS) oil and gas is given along with an outline of the Department of the Interior's OCS leasing procedures. The implications of the Interior's lease sale proposal for the coastal zone of Southern California are examined. Significant issues discussed include: role of coastal states in the Federal decisionmaking as to the siting and location of oil and gas leases; role of coastal zone management in the offshore

leasing program; justification, in terms of national energy needs, availability of manpower and materials, and possible alternatives, for leasing the OCS; for nominating areas for lease in Southern California at this time. Findings and recommendations are included.

J.M.S.

N75-31959# Committee on Commerce (U. S. Senate). OUTER CONTINENTAL SHELF OIL AND GAS DEVELOPMENT AND THE COASTAL ZONE

Washington GPO Nov. 1974 206 p refs Rept. pursuant to S. Res. 222 prepared by Comm. on Commerce, 93d Congr., 2d Sess., Nov. 1974

(GPO-39-356) Avail: SOD HC \$2.15

Major issues involved in leasing of the outer continental shelf are presented, and improvements in current procedures and practices are recommended. Topics discussed include information needs, exploratory and geological data, environmental and socio-economic impact on the Coastal Zone and on ocean resources, federal management and leasing policies, local control, production and transportation technology, and shortages of drilling rigs, equipment, and manpower.

N75-31960# Committee on Government Operations (U. S. Senate).

TO ESTABLISH AN ENERGY RESEARCH AND DEVELOP-MENT ADMINISTRATION AND A NUCLEAR ENERGY COMMISSION

Washington GPO 1974 649 p refs Hearings on S. 2744 before Subcomm. on Reorganization, Res., and Intern. Organ. of Comm. on Govt. Operations, 93d Congr., 1st Sess., 4-5 Dec. and 10 Dec. 1973

(GPO-28-963) Avail: SOD HC \$4.45

Testimony regarding the formation of the Energy Research and Development Administration and Nuclear Energy Commission is presented. A number of important considerations are discussed, including energy shortages, the necessity for conservation and development of alternative energy sources, various types of available energy resources, environmental protection, agency operations, involvement of private industry, and public safety.

N75-31961# Committee on Commerce (U. S. Senate). SCIENCE AND TECHNOLOGY APPLICATIONS ACT OF 1974

Washington GPO 1974 65 p refs Joint hearing on S. 2495 amendment no. 1537 before Comm. on Commerce and Comm. on Aeron. and Space Sci., 93d Congr., 2d Sess., 11 Jul. 1974

(GPO-41-407) Avail: Comm. on Commerce

A bill is discussed which recognizes science and technology as a primary national resource, and provides for their efficient utilization in the resolution of current and potential national problems. Some of the problems discussed include: The threat of worldwide famine and the importance of continuing agricultural research and of related technological development in industry as well as in government; the need for new technologies to prevent or reverse the deterioration of our environment; the need to find new sources of energy; the modernization of out transportation systems as an essential part of maintaining a benign environment; the need to advance the science and technology required to provide general access to health care of high quality and to reduce the incidence of disease; the maintenance and improvement of government policies to ensure that American science, technology, and industry continue to flourish. Author

N75-31962# California State Div. of Mass Transportation, Sacramento.

ENERGY USE OF PUBLIC TRANSIT SYSTEMS Final Report

Timothy J. Healy 1 Aug. 1974 64 p refs

(PB-241351/6: DMT-002) Avail: NTIS HC \$4.25 CSCL 21D

The amount of energy used by a variety of transit modes operating under different conditions was determined. Projections of energy availability in California through 1985 and 1990 are reviewed and the implications for transportation are discussed.

A short summary of the ways in which vehicles use energy, and an analysis of the resulting implications for energy-limiting or conserving strategies are given. Energy consumption data for a wide variety of vehicles operating in a number of modes are compared in a way that allows the reader (planner) to know relative energy requirements of different systems.

N75-32470# Transportation Systems Center, Cambridge, Mass. STUDY OF POTENTIAL FOR MOTOR VEHICLE FUEL ECONOMY IMPROVEMENT. FUEL ECONOMY TEST PROCEDURE PANEL REPORT NO. 6 Special Congressional Report, Jun. - Oct. 1974

Harold G. Miller 10 Jan. 1975 82 p refs Prepared in cooperation with Comm. on Com., Comm. on Interstate and Foreign Com. and EPA, Washington, D. C.

Foreign Com. and EPA, Washington, D. C. (PB-241776/4: DOT-TSC-OST-75-15) Avail: NTIS HC \$4.75; also avail. \$29.00/set of 8 reports as PB-241769-SET CSCL 210

This report presents the test procedures recommended for insuring compliance with fuel economy regulations. Discussions included are: (a) driving variables pertinent to the establishment of a meaningful, reproducible test methodology; (b) test and measurement methods which are applicable to fuel economy certification tests; (c) current test procedures in use by industry and the federal government, and (d) recommendations for a standardized Federal test procedure.

N75-32471# Transportation Systems Center, Cambridge, Mass. STUDY OF POTENTIAL FOR MOTOR VEHICLE FUEL ECONOMY IMPROVEMENT. TECHNOLOGY PANEL REPORT NO. 4 Special Congressional Report, Jun. Oct. 1974

Harold G. Miller 10 Jan. 1975 167 p refs Prepared in cooperation with Comm. on Com., Comm. on Interstate and Foreign Com., and EPA, Washington, D. C.

(PB-241774/9; DOT-TSC-OST-75-13) Avail: NTIS HC \$6.25; also avail: \$29.00/set of 8 reports as PB-241769-SET CSCL 21D

The authors evaluate individual technologies which could produce improved automobile fuel economy in the areas of vehicle improvement (reduced weight and aerodynamic drag), transmission improvement, engine improvements and reduced performance acceleration. Potential 1980 fuel savings are estimated for each of these technologies. The more promising of these technologies are combined in several different configurations to produce estimates of potential automobile fuel savings possible by 1980. GRA

N75-32587# Joint Economic Committee (U. S. Congress). ENERGY STATISTICS

Washington GPO 1974 452 p refs Hearings before Subcomm. on Priorities and Economy in Govt. of Joint Economic Comm., 93d Congr., 1st and 2d Sess., 14 and 21 Jan. 1974 2d Sess., 14 and 21 Jan. 1974

(GPO-37-143) Avail: SOD HC \$3.85

The hearings to determine the facts on oil production, reserves, inventories, and consumption are reported. Topics discussed include: mandatory oil import control program; oil import question; reserves of crude oil, natural gas liquids, and natural gas.

N75-32590# Lockheed Missiles and Space Co., Palo Alto, Calif. FULL-SCALE TESTING OF HIGH-VOLTAGE PHOTOCELLS OF FOTOVOLT TYPE AT ELEVATED LIGHT FLUX LEVELS U. A. Arifov, M. Gaibnazarov, B. N. Dzhalilov, A. I. Kulagin, A. P. Landsman, and D. S. Strebkoi 1974 7 p refs Transl. into ENGLISH from Geliotekhnika, Akad. Nauk Uz. SSR (Tashkent), no. 6, 1974 p 3-9

Avail: NTIS HC \$3.25; National Translations Center, John Crerar Library, Chicago, III. 60616

Photoelectric batteries were investigated for use in solar power plants operating under high radient flux density at high temperatures. The energy distribution in the focal and out-of-focus planes of a paraboloidal concentrator are presented along with the results

of measuring the volt-ampere characteristics at diverse solar ray concentrations. It is shown that a diminution of the spreading and contact resistances of photocells will permit taking off hundreds of times more power in useful load than that for the customary frontal photocells.

F.O.S.

N75-32592*# National Aeronautics and Space Administration.
Lewis Research Center, Cleveland, Ohio.

THE NASA-LEWIS/ERDA SOLAR HEATING AND COOLING TECHNOLOGY PROGRAM

James P. Couch and Harvey S. Bloomfield 1975 15 p refs Presented at Workshop on the use of Solar Energy for the Cooling of Buildings, Los Angeles, 4-6 Aug. 1975; Cosponsored by Intern. Solar Energy Soc. and the Am. Soc. of Heating, Refrig., and Air-Conditioning Engineers

(NASA-TM-X-71800; E-8478) Avail: NTIS HC \$3.25 CSCL 10A

Plans by NASA to carry out a major role in a solar heating and cooling program are presented. This role would be to create and test the enabling technology for future solar heating, cooling, and combined heating/cooling systems. The major objectives of the project are to achieve reduction in solar energy system costs, while maintaining adequate performance, reliability, life, and maintenance characteristics. The project approach is discussed, and will be accomplished principally by contract with industry to develop advanced components and subsystems. Advanced hardware will be tested to establish technology readiness both under controlled laboratory conditions and under real sun conditions.

N75-32593*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, Ohio.

COST AND SIZE ESTIMATES FOR AN ELECTROCHEMICAL BULK ENERGY STORAGE CONCEPT

Marvin Warshay and Lyle O. Wright 1975 12 p refs Presented at Energy Storage Session of the 148th Meeting of the Electrochemical Soc., Dallas, 5-9 Oct. 1975

(NASA-TM-X-71805; E-8138) Avail: NTIS HC \$3.25 CSCL 10C

Preliminary capital cost and size estimates were made for an electrochemical bulk energy storage concept. The electrochemical system considered was an electrically rechargeable flow cell with a redox couple. On the basis of preliminary capital cost estimates, size estimates, and several other important considerations, the redox-flow-cell system emerges as having great promise as a bulk energy storage system for power load leveling. The size of this system would be less than 2 percent of that of a comparable pumped hydroelectric plant. The capital cost of a 10-megawatt, 60- and 85-megawatt-hour redox system is estimated to be \$190 to \$330 per kilowatt. The other important features of the redox system contributing to its load leveling application are its low adverse environmental impact, its high efficiency, its apparent absence of electrochemically-related cycle life limitations, and its fast response.

N75-32594*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, Ohio.

PRELIMINARY RESULTS OF THE LARGE EXPERIMENTAL WIND TURBINE PHASE OF THE NATIONAL WIND ENERGY PROGRAM

Ronald L. Thomas, Thomas Sholes, and John E. Sholes 1975 25 p refs Presented at Frontiers of Technol. Conf., Stillwater, Oklahoma, 1-2 Oct. 1975; Sponsored by Oklahoma State Univ. (NASA-TM-X-71796; E-8475) Avail: NTIS HC \$3.25 CSCL 108

The preliminary results of two projects in the development phase of reliable wind turbines designed to supply cost-competitive electrical energy were discussed. An experimental 100 kW wind turbine design and its status are first reviewed. The results of two parallel design studies for determining the configurations and power levels for wind turbines with minimum energy costs are also discussed. These studies predict wind energy costs of 1.5 to 7 cents per kW-h for wind turbines produced in quantities of 100 to 1000 per year and located at sites having average winds of 12 to 18 mph.

Author

N75-32595*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, Ohio.

INITIAL COMPARISONS OF SOLAR COLLECTOR PER-FORMANCE DATA OBTAINED OUT-OF DOORS AND WITH A SOLAR SIMULATOR

Richard W. Vernon 1975 14 p refs Presented at 1975 Intern. Solar Energy Soc. Meeting, Los Angeles, 28 Jul. - 1 Aug.

(NASA-TM-X-71626; E-8472) Avail: NTIS HC \$3.25 CSCL 10B

A facility was constructed to evaluate solar collector performance outdoors for conditions that would be encountered by collectors if they were incorporated in a solar heating/ cooling system. In addition to obtaining initial collector performance data, the outdoor facility will enable collector durability and degradation rates to be evaluated for operating periods of several months. The data obtained from the outdoor tests were compared to collector performance predicted on the basis of results obtained with a solar simulator. The performance measured outdoors was less than the predicted performance.

N75-32596# Naval Academy, Annapolis, Md. Environmental Protection Research and Development Team.

CONVERTING CELLULOSIC WASTE TO FUEL: A LITERA-TURE REVIEW Interim Report, 1 Jul. 1974 - 1 Feb. 1975 Mark M. Bundy Feb. 1975 23 p refs (AD-A009400: USNA-EPRD-9) Avail: NTIS CSCL 07/1

Preliminary findings show five processes that will convert discarded cellulosic material into a useable fuel. These processes. virtue of its size and energy density a well-developed hurricane should be able to influence the distribution of trace constituents in the lower stratosphere, at least locally if not on a global basis. The authors describe the results of the first attempt to determine the influence of a hurricane on the vertical profile of aerosol within a 500 mile radius of the center of the storm. Aerosol profiles were obtained over hurricane Gilda in October of 1973. The results show a relatively clean upper troposphere which has been tentatively attributed to a removal process associated with the storm itself.

N75-32598# Naval Postgraduate School, Monterey, Calif. ELECTRICAL ENERGY ALLOCATIONS AT NAVY AND MARINE CORPS BASES M.S. Thesis Alexander Shalar Mar. 1975 123 p refs (AD-A009821) Avail: NTIS CSCL 10/1

Navy and Marine Corps bases in the continental United States derive almost all of their electricity from public utility companies. For this thesis, the conditions of service of select public utility companies in one part of the United States, the West Coast, were investigated. Particular attention was devoted to the utility companies: plans to allocate electricity to their customers if an emergency or a fuel shortage should occur. The second major area investigated was the internal management of electricity within Navy and Marine Corps bases. The load shedding plans of about 80 bases were reviewed, and from these, guidelines were developed for the preparation of an optimal load shedding plan. Also, a unique approach to electrical allocation was developed. The approach is based on the utility theory of economics. GRA

N75-32601# Kell, Alterman, Runstein, and Thomas, Portland.

POWER SHORTAGE CONTINGENCY PROGRAM FOR THE PACIFIC NORTHWEST. LEGISLATIVE, REGULATORY AND INSTITUTIONAL ASPECTS

Leon Jourolmon 1975 402 p refs

(PB-241323/5; W75-06977) Avail: NTIS HC \$10.50 CSCL 10A

Principles are evaluated which are applied when use of electricity must be rationed either because of critical levels of streamflow or because of slippage of generator schedules, or both. The legal structure controlling the marketing of power throughout the Columbia Basin is examined.

N75-32602# Electric Power Research Inst., Palo Alto, Calif. EVALUATION OF FIXED BED, LOW BTU COAL GASIFICA-TION SYSTEMS FOR RETROFITTING POWER PLANTS Interim Report

D. A. Waitzman, H. L. Faucett, E. E. Kindahl, S. V. Tomlinson, and D. E. Nichols Feb. 1975 281 p refs Sponsored by Electric Power Res. Inst., Palo Alto, Calif. (PB-241672/5; TVA-Bull-Y-91; EPRI-203-1) Avail: NTIS HC \$8.75 CSCL 10B

Seven alternative systems are considered: (1) Wellman-Galusha/Benfield System. (2) Wellman-Galusha/Stretford System. (3) Wellman-Galusha/Iron Oxide System, (4) Wellman-Galusha/ Iron Oxide/Fines Gasification System, (5) Lurgi/Benfield System, (6) Lurgi/Stretford System, and (7) Lurgi/Iron Oxide System. Conceptual designs and capital and operational cost estimates are provided for six of the systems including associated coal handling, fines removal and sales (or gasification in the Wellman-Galusha/iron oxide/fines gasification system), air compression and boiler modifications. The report estimates the cost of and describes low-Btu, fixed-bed gasification plants that might be operated in the near future on retrofitted power plants, and compares fixed-bed gasification with stack gas cleaning process-

N75-32603# Bureau of Mines, Pittsburgh, Pa. Pittsburg Mining and Safety Research Center. IN SITU COMBUSTION OF COAL FOR ENERGY Technical **Progress Report** Robert F. Chaiken Nov. 1974 16 p refs Previously announced

as N75-11464

(PB-241892/9; 8M-TPR-84; N75-11464) Avail: NTIS HC \$3.25 CSCL 081

A concept of efficient thermal energy generation through the in situ combustion of coal, and the on-site conversion of that energy to electricity is discussed and shown to offer distinct advantages in the utilization of our coal reserves. Analysis of data from previous underground coal gasification projects suggest that coal can be efficiently burned underground and that the burning process should be maintainable for time periods sufficient to power a commerical electricity generation plant. A discussion is presented related to the requirements of a 100 megawatt (thermal) demonstration in-situ combustor, and some of the important problem areas that have to be resolved prior to implementation of the concept. GRA

N75-32606# Kellogg (M. W.) Co., Houston, Tex. Research and Engineering Development.

IDENTIFICATION AND CHARACTERIZATION OF THE USE OF MIXED CONVENTIONAL AND WASTE FUELS Final Report

Gopal K. Mathur Feb. 1975 65 p (Contract EPA-68-02-1308)

(PB-241821/8; EPA-650/2-75-017) Avail: NTIS HC \$4.25 CSCL 10A

The major objective of this study was to identify and classify types and properties of mixed fuels presently in use, and typesof stationary processes using mixed fuels. Types of fuels presently in use, and types of stationary processes using mixed fuels. Types of mixed fuels include mixed oils; oil and gas; coal and oil; coal and gas; by-product gases and fuels; by-product chemical waste; and mixtures of chemical wastes and conventional fossil fuels. The scope of the task covered industries in the category of utilities, petroleum refineries, petrochemical, chemical processing (excluding fertilizer), glass, cement and textile. A list of manufacturers of mixed fuel burners was developed. GRA

N75-32607# Dow Chemical Co., Freeport, Tex. ENERGY CONSUMPTION: PAPER, STONE/CLAY/GLASS/ CONCRETE, AND FOOD INDUSTRIES Final Report, Aug. 1974 - Mar. 1975

John T. Reding and Burchard P. Shepherd Apr. 1975 60 p

(Contract EPA-68-02-1329)

(PB-241926/5; EPA-650/2-75-032-c) Avail: NTIS HC \$4.25 CSCL 10A

Energy-intensive steps or operations for commonly used manufacturing processes are examined. Results of the analyses are in the form of energy consumption block diagrams, energyintensive equipment schematic diagrams, and tables that indicate the causes of energy losses, as well as possible conservation approaches.

N75-32627# Exxon Research and Engineering Co., Linden, N.J. EVALUATION OF POLLUTION CONTROL IN FOSSIL FUEL CONVERSION PROCESSES. LIQUEFACTION: **SECTION 2. SRC PROCESS Final Report**

C. E. Jahnig Mar. 1975 88 p refs (Contract EPA-02-0629)

(PB-241792/1; GRU.8DJ.75; EPA-650/2-74-009-f) Avail: NTIS HC \$4.75 CSCL 07A

Results are given of a review of the Solvent Refined Coal (SRC) process from the standpoint of its potential for affecting the environment. Estimates are included of the quantities of solid, liquid, and gaseous effluents as well as the thermal efficiency of the process. A number of possible process modifications of alternatives are proposed which could facilitate pollution control or increase thermal efficiency. Technology needs are indicated.

N75-33410# Transportation Systems Center, Cambridge, Mass. STUDY OF POTENTIAL FOR MOTOR VEHICLE FUEL ECONOMY IMPROVEMENT. SAFETY IMPLICATIONS PANEL REPORT NO. 2 Special Congressional Report, Jun. - Oct. 1974

Harold G. Miller 10 Jan. 1975 45 p refs Sponsored in part by Committee on Commerce (U.S. Senate), Committee on Interstate and Foreign Commerce (U.S. House), and EPA, Washington, D.C.

(PB-241772/3; DOT-TSC-OST-75-11) Avail: NTIS HC \$3.75; also available in a set of 8 reports as PB-241769-SET HC \$29.00 CSCL 21D

This report contains four individual analyses related to the safety impact of increased small car usage and automobile weight reductions to improve fuel economy. (1) fuel economy as a function of weight, performance, and driving schedule; (2) traffic control for safety and fuel economy; (3) weight versus safety; and (4) effects of speed limits on fuel economy and safety.

N75-33411# Transportation Systems Center, Cambridge, Mass.

STUDY OF POTENTIAL FOR MOTOR VEHICLE FUEL ECONOMY IMPROVEMENT. TRUCK AND BUS PANEL REPORT NO. 7 Special Congressional Report, Jun. - Oct. 1974

Harold G. Miller 10 Jan. 1975 112 p refs Sponsored in part by Committee on Commerce (U.S. Senate), Committee on Interstate and Foreign Commerce (U.S. House), and EPA, Washington D.C.

(PB-241777/2; DOT-TSC-OST-75-16) Avail: NTIS HC \$5.25; also available in a set of 8 reports as PB-241769-SET HC \$29.00

Special consideration is given to the potential improvement of truck and bus fuel economy implementable by the 1980 production year. Vehicles considered are those with gross vehicle weight ratings of 10,000 pounds or more.

N75-33491# Beychok (Milton R.), Irvine, Calif. PROCESS AND ENVIRONMENTAL TECHNOLOGY FOR PRODUCING SNG AND LIQUID FUELS Environmental **Protection Technology Series**

Milton R. Beychok Mar. 1975 152 p

(Contract EPA-68-03-2136)

(PB-242774/8; EPA-660/2-75-011) Avail: NTIS HC \$6.25: SOD HC as SN-055-001-01017 CSCL 07A

The process technology and environmental factors involved in the emerging industries for providing new supplemental energy supplies from nonconventional sources are discussed. It includes: (1) the production of substitute natural gas (SNG) from coal, crude oil and naphtha, (2) importing overseas gas supplies in

the form of liquefied natural gas (LNG) and as liquid methanol, (3) the regasification of LNG, (4) the production of liquid fuels from oil shale, and (5) the liquefaction of coal to produce clean fuels. The technology of oil and gas processing, heat balances, fuel combustion and stack gases, thermal efficiencies, and water balances is assessed.

N75-33494*# National Aeronautics and Space Administration. Lewis Research Center, Cleveland, Ohio.

INCORPORATING ENERGY CONSERVATION TECHNIQUES IN THE OPERATION OF EXISTING LORC R AND D **FACILITIES**

W. C. Nieberding 1975 20 p Presented at Annual NASA Facilities Conf., Pasadena, Calif., 21-24 Oct. 1975 (NASA-TM-X-71813) Avail: NTIS HC \$3.25 CSCL 10B

A general discussion of various methods which can be used to reduce energy consumption is presented. A very brief description of Lewis Research Center facilities is given and the energy reduction methods are discussed relative to them. Some specific examples (ie; automated equipment and data systems) of the implementation of the energy reduction methods are included.

Author

N75-33495# Committee on Science and Technology (U. S. House).

SOLAR HEATING AND COOLING DEMONSTRATION ACT OF 1974: OVERSIGHT HEARINGS

Washington NASA 1975 986 p refs Hearings before Subcomm. on Energy Res., Develop, and Demonstration of Comm. on Sci. and Technol., 94th Congr., 1st Sess., No. 13, 13-15 May 1975

(GPO-55-414) Avail: Subcomm. on Energy Res., Develop. and Demonstration

Oversight hearings made before the Subcommittee on Energy Research, Development and Demonstration of the Committee on Science and Technology of the U.S. House of Representatives on May 13-15, 1975 were described. These dealt with Public Law 93-409, the Solar Heating and Cooling Demonstration Act of 1974, and included discussions on the following subjects: solar heating, air conditioning, solar energy, electric power, energy consumption, energy costs, energy policy for Florida.

N75-33498# National Academy of Sciences - National Research Council, Washington, D.C.

SEMINAR ON INDUSTRIAL ENERGY CONSERVATION AND SEMINAR ON SOLAR SPACE HEATING AND COOLING Staff Summary Report

1975 28 p Seminar held at Seoul (Republic of Korea). 13-15 Nov. 1974; sponsored jointly by Rep. of Japan and Natl. Acad. of Sci. - Natl. Res. Council, Washington, D. C. (Contract AID/CSD-2584)

(PB-241462/1) Avail: NTIS HC \$3.75 CSCL 10A

The proceedings of two workshops on energy conservation and solar heating and heating are summarized. Topics discussed include: the technical and economic aspects of energy conservation, and application of industrial energy conservation techniques in terms of effectiveness, cost, and social acceptabil-

N75-33499# Michigan Univ., Ann Arbor. Highway Safety Research Inst.

STUDY ON THE EFFECTS OF THE ENERGY CRISIS AND 55 MPH SPEED LIMIT IN MICHIGAN Final Report

James Oday, Daniel J. Minahan, and Dan Golomb Apr. 1975 61 p Prepared in cooperation with Mich. Office of Highway Safety Planning, Lansing

(PB-241843/2; UM-HSRI-SA-75-9) Avail: NTIS HC \$4.25 CSCL 13L

The report is a presentation of the findings and conclusions derived from an analysis of Michigan traffic accident data and related data for the periods before, during, and after the peak energy crisis months of 1974. A major objective of this study was to identify the effect of the speed limits imposed as a result of the energy shortage. Some other causative factors relating to traffic crashes also were investigated. The report differs from others in that it seeks to define the cause-effect relationships specifically within Michigan, rather than nationally. Also by concentrating the study to a single state, it was possible to get more consistent data across several measures--exposure, accident data, speed data--resulting in a more datailed analysis. GRA

N75-33502# Massachusetts Univ., Amherst. Energy Alternatives Program.

HOT WATER HYDRAULICS OF THE GULF STREAM SITED OTGM

Daniel Seluk and Robert H. Kirchhoff Mar. 1975 77 p refs (Grant NSF GI-34979)

(PB-242151/9; NSF/RANN/SE/GI-34979/TR/75/2; NSF/RA/N-75-027) Avail: NTIS HC \$4.75 CSCL 10B

The results are presented of a study to determine if the kinetic energy of the Gulf Stream can be used as a pump for the evaporators in an ocean thermal energy system. The proposed evaporator is of the plate fin heat exchanger type but calculations for the staggered tube type boiler have also been developed. The flow field for both types of evaporators is assumed to be similar to that of a screen submerged in an infinite two dimensional potential flowfield. The problem is then reduced to determining the pressure loss coefficient for each arrangement. Momentum and thermal recovery in the wake of ocean pumped plants are investigated, and graphs are presented to allow the determination of downstream plant spacing.

N75-33503# Dow Chemical Co., Freeport, Tex. ENERGY CONSUMPTION: THE PRIMARY METALS AND PETROLEUM INDUSTRIES Final Report, Aug. 1974 - Mar.

John T. Reding and Burchard P. Shepherd Apr. 1975 59 p refs

(Contract EPA-68-02-1329)

(PB-241990/1; EPA-650/2-75-032-B) Avail: NTIS HC \$4.25

Results are reported of a study of energy consumption in the primary metals and petroleum industries. It analyzes energy-intensive steps or operations for commonly used manufacturing processes. Results of the analyses are in the form of energy consumption block diagrams, energy-intensive equipment schematic diagrams and tables that indicate the causes of energy losses, as well as possible conservation approaches.

N75-33504# Stein (Richard G.) and Associates, New York. RESEARCH DESIGN CONSTRUCTION AND EVALUATION OF A LOW ENERGY UTILIZATION SCHOOL, RESEARCH PHASE 1 Interim Report

Richard G. Stein and Carl Stein 15 Aug. 1974 297 p refs (Grant NSF GI-39612)

(PB-242217/8; NSF/RA/N-74-117) Avail: NTIS HC \$8.75 CSCL 10A

A re-examination of the education determinants that have influenced energy consumption in the past, is presented along with a review of the technical performance of building components. Results indicate that substantial energy savings can be achieved in schools. Since educational buildings represent 7% of the building area in total U.S. construction these savings are considerable.

N75-33505# Mitre Corp., Bedford, Mass. A SYSTEMS APPROACH TO INNOVATIVE SOLUTIONS TO THE ENERGY PROBLEM Final Report

Phillip R. Vance Dec. 1973 279 p refs

(Grant NSF DI-39519)

(PB-242189/9; NSF/RA/R-73-008; NSF/RD1-8) Avail: NTIS HC \$8.75 CSCL 10A

The formation of an institutional mechanism is described whose objectives are to increase the level of non-federal support for energy related research and development, to stimulate the innovation process, and to facilitate the transition of research and development products from laboratory to operational use. Research and development project activities undertaken in cooperation with research directors of the three largest electric

utilities, public officials, and university experts in New England are described. The projects cover such topics as fossil fuel switching systems. Operational and pending agreements for cost-sharing by appropriate companies are cited, as are criteria for the measurement of the impact of the efforts undertaken in this experiment in cooperative research and development. GRA

N75-33506# Massachusetts Inst. of Tech., Cambridge. Energy Lab.

PROJECT INDEPENDENCE REPORT: A REVIEW OF US **ENERGY NEEDS UP TO 1985**

Jerry A. Hausman Apr. 1975 60 p refs

(PB-242142/8; MIT-EL-75-009) Avail: NTIS HC \$4.25 CSCL 10A

A review and assessment of the Federal Energy Adminstration's Project Independence Report is undertaken. Special emphasis is placed in the energy mode and its forecast of U.S. energy needs up through 1985. Biases are pointed out and the uncertainty of the final result is emphasized.

N75-33507# Stanford Research Inst., Menlo Park, Calif. Center for the Study of Social Policy.

PLAUSIBILITY OF A RESTRICTED ENERGY USE SCEN-ARIO

Joe E. Armstrong and Willis W. Harman 8 Jan. 1975 211 p refs

(Contract C-5-35546)

(COM-75-10749/0; CSSP-3705-8) Avail: NTIS HC\$7.25 CSCL 10A

The consequences are examined of high and modest scenario projections of energy usage in the United States with and without adoption of modest energy conservation measures. The objectives of the overall study are: (1) to establish the plausibility that for a variety of reasons the United States may choose or find itself forced to accept at some point in the future a low or even static growth in energy usage (2) to explore the validity of the use of past trends and inter-element relationships for the economic. social, and technical projections up to and beyond 1990; and (3) to assess the feasibility of key characteristics of a comprehensive energy conservation plan.

N75-33508# Massachusetts Univ., Amherst.

AN ANALYSIS OF THE FLUID MOTION INTO THE CONDEN-SER INTAKE OF A 400 mW(e) OCEAN THERMAL DIFFER-**ENCE POWER PLANT**

Peter A. Mangarella Mar. 1975 27 p refs

(Grant NSF GI-34979)

(PB-242569/2; NSF/RANN/SE/GI-34979/TR/75/3; NSF/RA/N-75-029) Avail: NTIS HC \$3.75 CSCL 10B

The report addresses the following questions regarding the operation of an intake device in a complex stratified flow typical of the Gulf Stream: (1) would flow into such an intake create disruption of the thermocline if placed in depths of the order of 300-800 meters thereby withdrawing warm surface waters which would adversely affect the condenser operation, (2) if a finite withdrawal layer is created by such a device, what is the size and configuration of the layer, (3) what is the effect of such a withdrawal layer on the average temperature of the water so withdrawn, and can this average temperature be predicted, and (4) what is the possibility of entraining botton deposits from such an intake device and can some criteria be developed for avoiding scouring.

N75-33509# \ Hawaii Univ., Honolulu. Dept. of Ocean Engineering.

AN EVALUATION OF OCEANOGRAPHIC AND SOCIOECO-NOMIC ASPECTS OF A NEARSHORE OCEAN THERMAL ENERGY CONVERSION PILOT PLANT IN SUBTROPICAL HAWAIIAN WATERS Final Report, 1 May 1974 - 31 Jul. 1975

Karl H. Bathen 30 Apr. 1975 312 p refs (Grant NSF AER74-17521-A01)

(PB-242167/5; NSF/RANN/SE/AER74-17521-A01/FR: NSF/RA/N-75-028) Avail: NTIS HC \$9.25 CSCL 10B

Ocean thermal energy conversion (OTEG) proof-of-concept/

pilot plant studies in subtropical waters are discussed. The three-part socio-economic program is concerned with examining the legal aspects of a nearshore OTEC plant. The applicable law, federal interests, licenses and permits, opposing interests, legislative experience and site considerations are considered. An attempt is made to characterize the existing socio-economic conditions in the Kona (Keahole) area by examining the social infrastructure, local population, labor force, income and education, Konal electrical demand, and potential impact of a new power source. An input-output analysis for the Kona area was completed to model and further predict the impact of a new energy source on the economy of Hawaii County.

N75-33511# Massachusetts Inst. of Tech., Cambridge. Energy

THE FUTURE OF THE US NUCLEAR ENERGY INDUSTRY
Paul L Joskow and Martin L Baughman Apr. 1975 59 p
refs

(Grant NSF SIA-73-07871-A02)

(PB-242164/2; MIT-EL-75-006; NSF/RA/N-75-033) Avail: NTIS HC \$4.25 CSCL 18E

A regional supply-demand-regulatory model of the U.S. electric utility industry is used to evaluate the derived demand for commercial nuclear reactors, raw uranium, and enrichment requirements for the period 1975-1995. The structure of the domestic nuclear energy industry is outlined and the engineering-econometric supply-demand system used for the analyses is described. Conclusions of analysis for alternative assumptions about air quality regulations, peak-load pricing, costs of uranium resources, and future costs of capital to the electric utility industry are included.

GRA

N75-33515# RAND Corp., Santa Monica, Calif. DIRECT AND INDIRECT ENERGY DEMAND MODELS FOR DoD

C. C. Mow: Jun. 1974 32 p. refs Presented at 33d Military Operations Res. Symp. (MORS), West Point, New York, 25-27 Jun. 1974

(AD-A010968; P-5273) Avail: NTIS

To properly assess the impact of the energy shortage on national security, it is essential to have an insight into how energy is used in support of the military. This report presents some of the results of the energy demand models currently being developed under ARPA sponsorship. Two energy models are described: (1) Direct energy model: A USAF Energy Consumption Projection Model; (2) Indirect energy demand model: Energy Consumption by Industries in Support of National Defense.

N75-33749# National Bureau of Standards, Washington, D.C. Applied Mathematics Div.

THE NBS COMPUTERIZED CARPOOL MATCHING SYSTEM: USER'S GUIDE Final Technical Report

Judith F. Gilsinn and Susan Landau Dec. 1974 65 p - (COM-75-10691/4; NBSIR-74-633) Avail: NTIS HC \$4.25 CSCL 13B

The report includes flowcharts, input/output formats, and program listings for the programs, plus details of the manual process for coordinate coding. The matching program produces, for each person desiring it, a list of others residing within a pre-specified distance of him, and is thus applicable to a single work destination having primarily one work schedule. The system is currently operational on the UNIVAC 1108 computer and was run in March of 1974, producing lists for about 950 employees in less than four minutes computer time. Subsequent maintenance of the system will be carried out by the NBS Management and Organization Division.

N75-33931# Center for Naval Analyses, Arlington, Va. Warfare Analysis Group.

THE ECONOMIC IMPACT OF AN INTERRUPTION IN UNITED STATES PETROLEUM IMPORTS: 1975 - 2000 Randall G. Holcombe Nov. 1974 112 p refs (Contract NO0014-68-A-0091)

(AD-A010914; NWAG-Research-Contrib-245) Avail: NTIS CSCL 05/3

The objective of this paper is to estimate the economic impact of a possible interruption in petroleum imports during the period from 1975 to the year 2000. It begins by incorporating the data of the recent oil embargo into an input-output model of the U.S. economy, in order to assess the economic impact of the interruption in imports. The model will be used as a framework for estimating the impact of all sizes of oil import interruptions, from small interruptions to a complete cutoff of imports. Several different scenarios of petroleum supply and demand are developed; indicating the uncertainties in our energy future, but also reflecting the fact that there are many policy options that can be chosen in order to encourage - and discourage -self-sufficiency in energy.

N75-33932# Massachusetts Inst. of Tech., Cambridge. Energy Lab.

THE ECONOMICS OF THE NATURAL GAS SHORTAGE (1960-1980)

Paul W. MacAvoy and Robert S. Pindyck Sep. 1974 264 p refs

(Grant NSF GI-34936)

(PB-242166/7; MIT-EL-74-011; NSF/RA/N-74-204) Avail: NTIS HC \$8.50 CSCL 21D

An econometric policy model of the natural gas industry is described. The structure of the model is given in detail, as is the estimation of the model's equations. The model is then used in a variety of policy simulations to analyze the past and probable future behavior of the natural gas industry under alternative FPC regulatory policies.

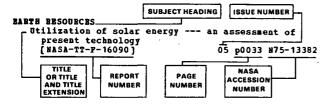
SUBJECT INDEX

ENERGY / A Continuing Bibliography (Issue 8)

FEBRUARY 1976

06 p0079 N75-17197

Typical Subject Index Listing



The subject heading is a key to the subject content of the document. The title or title and title extension provides the user with a brief description of the subject matter. The report number helps to indicate the type of document cited (e.g. NASA report, translation, NASA contractor report). The issue page and accession numbers are located beneath and to the right of the title e.g., 05 p0033 N75-13382. Under any subject heading the accession numbers are arranged in sequence with the IAA accession numbers appearing first.

ABSORBERS (EQUIPMENT) Modeling of solar absorption air conditioning 07 p0117 A75-34932 F-RANN energy abstracts. A monthly abstract journal of energy research, volume 2, no. 4 [ORNL-EIS-74-52-VOL-2-4] 05 p0029 N75-11469 NSF-RANN energy abstracts. NSP-RANN energy abstracts [ORNL-EIS-74-52-VOL-2-5] 06 p0068 N75-16092 AC GREERATORS The Barwell thermo-mechanical generator 05 p0009 A75-10579 Superconducting synchronous machine 06 p0061 A75-27967 Theoretical study of the energy output of two magnetohydrodynamic generators 07 p0125 A75-38568 Space power application of the all purpose mini-Brayton rotating unit /mini-BRU/ 08 p0193 A75-46019 ACOUSTIC INSTABILITY Possible development of acoustical instability in a system consisting of a combustion chamber and

a subsonic MHD generator

06 p0045 A75-19959 ACOUSTICS

Acoustic array methods for instrumentation of in situ coal gasification [UCID-16591] 06 p0104 N75-20875 ADDITIVES

Effect of impurity doping concentration on solar cell output 07 p0124 A75-37404

ADBRSTVRS Investigations and selection of components and materials for flexible solar generator 06 p0050 A75-24182

ABRODYNAMIC COBPFICIENTS Evaluation of the energy perfection of the different forms of transport --- aerodyn aerodynamic coefficients and lift drag ratio 07 p0137 N75-23392 [AD-A006562]

ABRODYNAMIC COMPIGURATIONS Impact on aerodynamic design 06 p0075 N75-16982 Puel conservation possibilities for terminal area

compatible aircraft [NASA-CR-132608] 06 p0091 N75-19224 ARRODYNAMIC STABILITY Unsteady aerodynamics of variable pitch vertical axis windmill [AIAA PAPER 75-649] 06 p0063 A75-28604 ARRODYNAMICS Applied aerodynamics of wind power machines --rotor blades (turbomachinery) [PB-238595/3] 07 p0133 N75-22669 AEROSPACE ENGINEERING The heat pipe - Its development, and its aerospace applications

05 p0015 A75-15054 The application of aerospace technology in the cryogenics field

06 p0048 A75-23239 Applications of aerospace technology in the electric power industry

APROSPACE ENVIRONMENTS The utilization of space as a source of energy for the earth

08 p0183 A75-45893 Nickel-cadmium cells [NASA-CR-143715] 07 p0128 N75-21792 Summary of high efficiency silicon solar cell

meeting held at NASA-Lewis [NASA-TH-X-71729] 07 p0138 N75-23681 Natural environment design criteria for the Solar Electric Propulsion Stage (SEPS)
[NASA-TM-X-64929]

07 p0138 N75-23682 ARROSPACE INDUSTRY

Technology application at Rockwell International 06 p0078 N75-17189 AEROSPACE SCIENCES

Research and technology operating plan summary: Fiscal year 1975 research and technology program --- space programs, energy technology, and aerospace sciences [NASA-TM-X-70410] 06 p0096 N75-20155

ABROSPACE SYSTEMS Mission and organization of the DFVLR: Two years of integrated society of German aeronautical and space flight research

[NASA-TT-F-16086] 05 p0035 N75-13882

Transfer of space technology to industry
06 p0078 N75-17195 AGRICULTURE Solar stills for agricultural purposes

07 p0115 A75-33972 Puel as an agricultural crop 08 p0172 A75-42533

Energy and fixed nitrogen from agricultural residues [BNWL-SA-5070] 06 p0103 N75-20874 Economic impact of shortages on the fertilizer industry

[PB-240418/4] 08 p0204 N75-29953 AIR CONDITIONING

Energy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity 05 p0005 A75-10540 Selection and evaluation of the University of

Selection and evaluation of the University of Plorida's solar powered absorption air conditioning system
[ASME PAPER 74-WA/SOL-6] 05 p0019 A75-16889
Assessment of Rankine cycle for potential application to solar-powered cooling of buildings
[ASME PAPER 74-WA/SOL-7] 05 p0019 A75-16890

Simulation of a solar heating and cooling system --- for houses 06 p0048 A75-23018 Solar operation of ammonia-water multistage air

conditioning cycles in the tropics 06 p0048 A75-23021

Modeling of the CSU heating/cooling system
Colorado State University solar house computer simulation
07 p0109 A75-29473
Pilot solar air-conditioning plant and results of
its use 07 p0111 A75-31512
Technical and economic evaluation of solar heating
and cooling of buildings \
08 p0184 A75-45921
Solar One, two years experience prototype home thermal and electrical system
08 p0184 A75-45922
Operational experience - Solar heating a Boston
school 08 p0184 A75-45923
A large mechanical contracting corporation solar
heats its own offices
08 p0184 A75-45924 Solar heating and cooling of Army buildings
. 08 p0184 A75-45926
An integrated solar heated and cooled mobile home
08 p0184 A75-45927
Design and operation of a solar-powered turbocompressor air-conditioning and heating
system ·
08 p0186 A75-45939
Development of a 540-sq-ft prototype faceted fixed mirror solar concentrator
08 p0186 A75-45940
Solar heating and cooling of buildings, phase 0.
Volume 2: Final report [PB-235423/1] 05 p0042 N75-15190
galam borning and cooling of buildings phase Of
Feasibility and planning study. Volume 3, book 1, appendix A, task 1: Development of
1, appendix A, task 1: Development of requirements. Appendix B, task 2: Systems.
requirements. Appendix B, task 2: Systems definition
[PB-235433/01 05 p0042 N75-15191
Solar heating and cooling of buildings. Phase 0:
Final report, volume 1 [PB-235427/2] 05 p0042 N75-15192
Solar heating and cooling of buildings. Phase O:
Final report. Volume 2: Appendices A-N
[PB-235428/0] 05 p0042 N75-15193 Solar heating and cooling of buildings. Phase O:
Final report. Volume 3: Appendices 0-Y
[PB-235429/8] 05 p0042 N75-15194
Solar heating and cooling of buildings. Phase 0: Final report. Executive summary
[PB-235426/4] 05 p0042 N75-15195
Solar heating and cooling of buildings. Phase 0:
Peasibility and rlanning study. Volume 1: [PB-235431/4] 06 p0069 N75-16101
Solar heating and cooling of buildings. Phase 0:
reasibility and planning study. Volume 2:
Technical report [PB-235432/2] 06 p0069 N75-16102
Solar heating and cooling of buildings, phase 0.
Volume 3: Appendices
[PB-235424/9] 06 p0070 N75-16103 Solar heating and cooling of buildings, phase 0.
Volume 1: Executive Summary
FDR-235422731 06 p0070 N75-16107
Solar heating and cooling of buildings. Phase O. Peasibility and planning study. Volume 3, book
2, appendix c, task 3: Assessment of capture
 appendix c, task 3: Assessment of capture potential. Appendix d, task 4: Social and
environmental study [PB-235434/8] 06 p0070 B75-16108
Air conditioning of office buildings with
all-electric supply. Part 1: Technical
conception
Comparison of computer programs used for modeling
solar heating and air conditioning systems for
buildings
f LBL-30661 06 p0079 N75-17279
[LBL-3066] 06 p0079 N75-17279 Control system design and simulation for solar heated structures
[LBL-3066] 06 p0079 N75-17279 Control system design and simulation for solar heated structures [LA-UR-74-1085] 06 p0082 N75-17813
[LBL-3066] 06 p0079 N75-17279 Control system design and simulation for solar heated structures [LA-UR-74-1085] 06 p0082 N75-17813 Solar heating and cooling of buildings study
[LBL-3066] 06 p0079 N75-17279 Control system design and simulation for solar heated structures [LA-UR-74-1085] 06 p0082 N75-17813 Solar heating and cooling of buildings study conducted for department of the Army. Volume 1: Executive summary and implementation plans
[LBL-3066] 06 p0079 N75-17279 Control system design and simulation for solar heated structures [LA-UR-74-1085] 06 p0082 N75-17813 Solar heating and cooling of buildings study conducted for department of the Army. Volume 1: Executive summary and implementation plans [AD-A002576] 06 p0104 N75-20879
[LBL-3066] 06 p0079 N75-17279 Control system design and simulation for solar heated structures [LA-UR-74-1085] 06 p0082 N75-17813 Solar heating and cooling of buildings study conducted for department of the Army. Volume 1: Executive summary and implementation plans [AD-A002576] 06 p0104 H75-20879 Solar heating and cooling of buildings study
[LBL-3066] 06 p0079 N75-17279 Control system design and simulation for solar heated structures [LA-UR-74-1085] 06 p0082 N75-17813 Solar heating and cooling of buildings study conducted for department of the Army. Volume 1: Executive summary and implementation plans [AD-A002576] 06 p0104 N75-20879

```
Peasibility demonstration of a solar powered turbocompressor air conditioning and heating
       system
       [ PB-238570/6]
                                                        07 p0130 N75-21816
    Solar residential heating and cooling system
       development test program
    [NASA-TM-X-64924] 07 p0135 N75-22903
Modeling of solar heating and air conditioning
       [PB-239189/4]
                                                        07 p0136 N75-22926
    [PB-239189/4] 07 p0136 N75-22926
Formulation of a data base for the analysis,
evaluation and selection of a low temperature
solar powered air conditioning system
[PB-238683/7] 07 p0136 N75-22928
    Development of flat-plate solar collectors for the
       heating and cooling of buildings
[NASA-CR-134804]
    neating and cooling of buildings
[NASA-CR-134804] 07 p0154 B75-26495
Summary of NASA Lewis Research Center solar
heating and cooling and wind energy programs
[NASA-TH-X-71745] 07 p0154 B75-26497
Solar heating and cooling experiment for a school
       in Atlanta
       [PB-240611/4]
    Design and test report for transportable solar
       laboratory program
    [PB-240609/8]
Assessment of a single family residence solar heating system in a suburban development setting [PB-240784/9]
08 p0203 N75-295
                                                        07 p0156 N75-26512
    Solar heating/cooling of buildings: Current building community projects
[PB-24117/1] 08 m0205 275
AIR CONDITIONING EQUIPMENT
    A prototype solar powered, Rankine Cycle system providing residential air conditioning and
       electricity
    05 p0004 A75-10523
Solar air conditioning systems using Rankine power
cycles - Design and test results of prototype
       three ton unit
    07 p0117 A75-34931 Modeling of solar absorption air conditioning
                                                        07 p0117 A75-34932
    The University of Florida solar powered
       intermittent ammonia/water absorption air
       conditioner
                                                        07 p0118 A75-34936
    Cooling with the sun's heat - Design
       considerations and test data for a Rankine Cycle
       prototype
                                                        08 p0167 A75-39409
    Solar absorption air conditioning alternatives
08 p0167 A75-39410
    Cooling a light industrial building in Puerto Rico
       using solar energy
[AIAA PAPER 75-612]
                                                       08 p0170 A75-41178
    The annual cycle energy system --- winter ice for
       summer air conditioning
                                                        08 p0187 A75-45947
    Thermodynamics of multistage air-cooled gas turbine
06 p0050 A75-23817
An ecologic solar heated and cooled home
                                                        07 p0118 A75-34937
    Workshop Proceedings on Solar Cooling for
       buildings, held in conjunction with the
Semiannual Meeting of the American Society of
Heating, Refrigerating and Air Conditioning
       Engineers (ASHRAE)
[PB-239419/5]
                                                        07 p0144 N75-24145
AIR POLLUTION
    Combustion R&D - Key to our energy future ---
pollution reduction using hydrocarbon fuels
                                                       05 p0009 A75-10596
    Meteorological factors and dispersion of pollutants in the atmosphere - A preliminary study about a large power plant
                                                       06 p0045 A75-21150
    Trace elements by instrumental neutron activation analysis for pollution monitoring
                                                        08 p0166 A75-39335
   Utilization of hydrogen as an appliance fuel 08 p0178 A75-44794
    The EPA-Van - A clean energy system for the home
       --- mobile test station for nonpolluting systems
08 p0186 A75-45946
    Development of coal fired fluidized-bed boilers
                                                       06 p0065 N75-15668
      [PB-235899/2]
    Development of coal fired fluidized-bed boilers
                                                        06 p0065 N75-15669
       [PB-235898/4]
```

AIRCRAPT ENGINES SUBJECT INDEX

Reduction of atmospheric pollution by the application of fluidized-bed combustion 06 p0072 N75-16151 [PB-235840/6] Compilation of air pollutant emission factors, second edition, supplement no. 3 --- fuel combustion and consumption [PB-235736/6] 06 p0073 N75-16152
The action of EDF in the prevention of atmospheric pollution --- by expanding nuclear electric power generation [BLL-CE-TRANS-6500-(9022.09)] 06 p0083 N75-17833 Study of industrial uses of energy relative to environmental effects [PB-237215/9] 06 p0084 N75-17853 Operational, maintenance, and environmental problems associated with a fossil fuel-fired potassium steam binary vapor cycle [ORNL-NSP-EP-30] 06 p0090 N75-18769 [ORNL-NSP-EP-30]

The bioenvironmental impact of air pollution from fossil-fuel power plants

[PB-237720/8]

Inspection and maintenance of light-duty gasoline powered motor vehicles: A guide for implementation --- emissions inspection program

[PB-236587/2]

Observable products of p0090 N75-18784 Field surveillance and enforcement guide for petroleum refineries
[PB-236669/8] 06 p0090 N75-18
The collaborative study of EPA methods, 5, 6, and
7 in fossil fuel-fired steam generators 06 p0090 N75-18786 06 p0091 N75-18788 [PB-237695/2] Background information for standards of performance: Coal preparation plants. Volume 2: Summary and test data
[PB-237696/0]
[PB-237696/0]
[PB-237696/0] [PB-237696/0] 06 p0091 N75-18797 Environmental aspects of methanol as vehicular fuel: Health and environmental effects
[UCRL-76076] 06 p009 06 p0095 N75-19867 UCRL-76076]

Bvaluation of pollution control in fossil fuel conversion processess. Gasification, section 1:
Synthane process

[PB-237113/6]

Changes in the global energy balance --atmospheric composition and the effect of air 06 p0095 N75-19879 pollution [PB-238075/6] 06 p0106 N75-20936 Impact of future use of electric cars in the Los
Angeles region. Volume 3: Task reports on
impact and usage analysis

[PB-238879/1]
Interdisciplinary study of atmospheric processes
and constituents of the mid-Atlantic coastal
region. Attachment 3: Data set for Craney
Island oil refinery installation experiment --air pollution monitoring
[MASA-CR-142823]
Interdisciplinary study of atmospheric process
and constituents of the mid-Atlantic coastal
region. Attachment 3: Data set for Craney
Island oil refinery installation experiment --air pollution monitoring
[MASA-CR-142823]
Or p0141 N75-24121
Interdisciplinary study of atmospheric process Interdisciplinary study of atmospheric processes and constituents of the mid-Atlantic coastal region. Attachment 4: Data set for background investigation of atmospheric constituents for Bansemond River site --- a proposed oil refinery site [NASA-CR-142821] 07 p0141 N75-24122 Characterization of sulfur recovery from refinery, fuel gas [PB-239777/6] 07 p0151 N75-25326 Mineral resources and the environment. Appendix to section 3: Report of panel on the implications of mineral production for health and the environment
[PB-239582/0]
Solids emission from power station furnaces
industrial pollution control
[BLL-CE-TRANS-6524-(9022.09)]
07 p0157 N75 07 p0153 N75-26489 [BLL-CE-TRANS-6524-(9022.09)] 07 p0157 N75-26528 Assessment of the potential of clean fuels and energy technology [PB-239970/7] 07 p0162 N75-27583
Engineering and cost study of air pollution control for the petrochemical industry, volume 3: Ethylene dichloride manufacture by oxychlorination 07 p0162 N75-27612 Air pollution: Conference on Low Pollution Power Systems Development [PB-200664 ** [PB-240564/5] 07 p0162 N75-27618

Development of low emission porous plate combustor for automotive gas turbine and Rankine cycle engines --- air pollution control [PB-240776/5] 07 p0162 N75 07 p0162 N75-27619 Report to Congress on control of sulfur oxides [PB-241021/5] 08 p0204 N75-29597 Pinancial incentives and pollution control: case study
[PB-241479/5]
[PB-241479/5]
[Identification and characterization of the use of mixed conventional and waste fuels --- fuel 08 p0208 N75-31610 consumption/air pollution
[PB-241821/8] 08 p0211 N75
Evaluation of pollution control in fossil fuel 08 p0211 N75-32606 conversion processes. Liquefaction: Section 2. SRC process [PB-241792/1] 08 p0212 N75-32627 AIR QUALITY The bioenvironmental impact of air pollution from fossil-fuel power plants [PB-237720/8] 06 p0090 N75-18782 AIR TRANSPORTATION Certain problems of fuel consumption in air transport 05 p0011 A75-11372 Air transportation energy consumption - Yesterday, today, and tomorrow
[AIAA PAPPR 75-319]

Lighter than air - A look at the past, a look at the possibilities 06 p0047 A75-22515 06 p0056 A75-25995 The economics of liquid hydrogen supply for air transportation 08 p0173 A75-43978 Hydrogen for the subsonic transport --- aircraft design and fuel requirements 08 p0178 A75-44791 Transportation vehicle energy intensities. joint DOT/NASA reference paper --- energy consumption of air and ground vehicles [NASA-TM-X-62404] AIRCRAPT CONTROL Impact on aerodynamic design 06 p0075 N75-16982 AIRCRAPT DESIGN Next generation transports will emphasize fuel savings 05 p0011 A75-11426 Fuel outlook dictating technical transport research 05 p0011 A75-11427 Conceptual design of reduced energy transports
[AIAA PAPER 75-303]
'Time is energy' /Henson and Stringfellow Memorial
Lecture/ --- VTOL aircraft developments
07 p0112 A75-32324
The Shell natural gas airship, and other L.T.A. activities by Aerospace Developments
[AIAA PAPER 75-932] 07 pc [AIAA PAPER 75-932] 07 p0121 A75-37008
Design of short haul aircraft for fuel conservation
[SAE PAPER 750587] 08 p0169 A75-40502
Puture hydrogen fueled commercial transports
[SAE PAPER 750615] 08 p0169 A75-40521
Hydrogen for the subsonic transport --- aircraft
design and fuel requirements design and fuel requirements 08 p0178 A75-44791 Weight contribution to fuel conservation for terminal area compatible aircraft [SAWE PAPER 1091] 08 p0196 A 08 p0196 A75-47509 Impact on aerodynamic design 06 p0075 N75-16982 Puture long-range transports: improved fuel efficiency Prospects for Fuel conservation possibilities for terminal area compatible aircraft [MASA-CR-13260] [NASA-CR-132608] 06 p0091 N75-19224 AIRCRÀFT EBGIBES Powerplant energy management --- transport aircraft engine thrust control [AIAA PAPER 74-1066] 05 p0001 05 p0001 A75-10259 [AIAA PAPER 74-1066] 05 p0001 A75-10259
Gas turbine engines - A state-of-the-art review
05 p0009 A75-10840
An engine project engineer's view of advanced
secondary power systems
[SAE PAPER 740884] 05 p0019 A75-16925
Engine development program for the APL remotely
piloted vehicle

[AD-787507]

06 p0065 N75-15658

	75 N75-16981	AIRLINE OPERATIONS The fuel scene and its impact on	the economics of
Preliminary study of advanced turbofans to energy consumption	tor low	airline operations	08 p0165 A75-3901
	34 N75-18241	Fuel conservation possibilities f compatible transport aircraft	
The use of hydrogen in commercial aircrait assessment	ft - An	[AIAA PAPER 75-1036] AIRSHIPS	08 p0171 A75-4169
05 p000 Alternative fuels for aviation	06 A75-10542	Ploating vs flying - A propulsion	energy comparison 06 p0056 A75-2598
07 p012 Bvaluation of the overall fuel mass penal	21 A75-36719	Lighter than air - A look at the the possibilities	past, a look at
aircraft system	-	-	06 p0056 A75-2599
The fuel scene and its impact on the econ airline operations		A non-polluting powerplant for la [AIAA PAPER 75-927] The Shell natural gas airship, an	07 p0121 A75-3700 d other L.T.A.
Puel conservation possibilities for termi	55 A75-39018	activities by Aerospace Develop [AIAA PAPER 75-932]	ments 07 p0121 A75-3700
compatible transfort aircraft		AIRSPACE	-
[AIAA PAPER 75-1036] 08 p017 Aviation usage of liquid hydrogen fuel - and problems	/1 A75-41698 Prospects	Legal economic, and energy consid use of underground space [PB-236755/5]	erations in the 06 p0080 N75-1774
08 p017	2 A75-42282	ALABAMA	-
The economics of liquid hydrogen supply f transportation	or air	Degasification of the Mary Lee co Grove, Jefferson County, Alabam	
	3 A75-43978	borehole in advance of mining	AE -0020 N7E-11#6
Hydrogen for the subsonic transport a design and fuel requirements	ircraft	[BM-RI-7968] Petroleum in Alabama includin	05 p0028 N75-1146 g exploration,
08 p017 Liquid hydrogen as a fuel for future comm	8 A75-44791	production, and economics [PB-237353/8]	06 p0085 N75-1844
aircraft		Coal in Alabama	-
08 p017 Air Force experience in the use of liquid	8 A75-44792 hydrogen	[PB-236583/1] Natural gas in Alabama	06 p0088 N75-1873
as an aircraft fuel	9 A75-44801	[PB-236582/3] ALASKA	06 p0088 N75-1873
Liquid hydrogen - Future aircraft fuel:	3 273 44001	The effect of Alaskan crude oil a	
Background, payoff, and cryogenic engin	eering	hydrocarbon compounds on embryo of the Pacific oyster, Crassost	
challenge 08 p019	5 175-47081	of the facilit dyster, crassost	06 p0090 N75-1876
Liquid hydrogen - Fuel of the future	for	The potential for developing Alasi	kan coals for
aircraft [SAWE PAPER 1065] 08 p019	5 A75-47495	clean export fuels, phase 1 [PB-238539/1]	07 p0127 N75-2178
The 1974 AGARD Annual Meeting: The energing problem: Impacts on military research a		ALKALI BALIDES Corrosion studies of materials for	r auxiliary
development 06 p007	5 N75-16977	equipment in MHD power plants	06 p0055 A75-2438
Alternative fuels for aviation		ALKALIBE BATTERIES Porous matrix structures for alka	line electrolute
Impact of future fuels on military aero-e	5 N75-16980 ngines 5 N75-16981	fuel cells	07 p0123 A75-37243
Impact on aerodynamic design		ALLOCATIONS	-
United States transportation fuel economi	5 N75-16982 cs (1975	Public works for water and power of Atomic Energy Commission Appropr	riation Bill,
- 1995) [NASA-TH-X-3197] 06 p010	7 1175-21154	1975. Part 6: Tennessee Valley	y Authority 05 p0026 N75-10859
Technology assessment of portable energy P, phase 1		Oversight: Mandatory petroleum ai programs, part 1	
	4 N75-22901	[GPO-30-060] Oversight: Handatory petroleum al	05 p0039 N75-15158
Technology assessment of portable energy P, phase 1	RDI AUG	programs, part 2	
[NASA-CR-137653] 07 p013 The long term energy problem and aeronaut	4 N75-22902	[GPO-31-519] Fuel availability and allocation is	05 p0039 N75-15159 in the United
08 p020	2 N75-29012	States	
Fuel-conservative engine technology 08 p020	6 ¥75-31074	[GPO-31-711] Electrical energy allocations at 1	06 p0067 N75-16081 Savy and Marine
AIRCHAFT PARTS P-15 secondary power systems		Corps bases [AD-A009821]	08 p0211 N75-32598
[SAE PAPER 740885] 06 p004	8 A75-22948	ALTERBATING CURRENT	
AIRCRAPT PERFORMANCE Rating aircraft on energy		An assessment of the applicability AC circuit breakers to inductive	energy storage
05 p001 Extended energy management methods for fl	5 A75-14346	ALUMINUM COMPOUNDS	08 p0206 N75-31341
performance optimization		High-efficiency graded band-gap	
[AIAA PAPER 75-30] 05 p002 Ploating vs flying - A propulsion energy	1 A75-18269 comparison	. Al/x/Ga/1-x/As-GaAs solar cell	06 p0058 A75-27519
06 p005	6 A75-25987	ALUMINUM NITRIDES	•
Evaluation of the overall fuel mass penal aircraft system		Aluminum nitride and silicon nitri high-temperature vehicular gas t	urbine engines
07 p012	1 A75-36720 ·	AKHO HIA	05 p0011 A75-11362
Impact on aerodynamic design	r war 40000	The economics of the production of	
06 p007	5 N75-16982	fertilizer by the fixation of at and nitrogen using nuclear power	:
A wind energy conversion system based on	the		08 p0191 A75-46001
tracked-wehicle airfoil concept 05 p000	4 A75-10518	Low to high temperature energy con using ammonia	
****		[NASA-CASE-NPO-13510-1]	06 p0074 B75-16972

SUBJECT INDEX AUTOSOBILE REGINES

Solar kine: Answer to the agricultural energy challenge of our time ATROSPHERIC DIPPUSTOR Meteorological factors and dispersion of pollutants in the atmosphere - A preliminary study about a large power plant 06 p0086 N75-18721 ANISOTROPIC MEDIA Metals and composites in superflywheel energy 06 p0045 A75-21150 storage systems ATMOSPHERIC REFREY SOURCES The economics of the production of liquid fuel and fertilizer by the fixation of atmospheric carbon and nitrogen using nuclear power 06 p0047 A75-22523 The annual cycle energy system --- winter ice for summer air conditioning 08 p0187 A75-45947 ATMOSPHERIC HEATING ABTARCTIC REGIONS Interaction between the fuel-energy complex and Exploration of Antarctica: Past and present [BLL-M-23343-{5828.4F}] 06 p0080 N the environment 06 p0080 N75-17722 07 p0110 A75-29800 ATMOSPHERIC TURBULENCE Limit lead in gasoline The effect of atmospheric turbulence on windmill [GPO-29-660] 05 p0023 N75-10259 performance [GPO-29-bb0]
Impact of motor gasoline lead additive regulations on petroleum refineries and energy resources, 1974-1980, phase 1
[PB-234185/7]
O5 p0025 875-106 08 p0174 A75-44756 ATOM CONCENTRATION Hydrogen distribution profiling --- embrittlement Use 1234185/7] 05 p0025 875-10601 Hydrocarbon power fuel from the gasoline boiling range --- antiknock additives [NASA-TT-F-16390] of storage vessel surfaces 08 p0179 A75-44805 ATS 6 The ATS-6 power system - An optimized design for maximum rower source utilization ABTIRBPLECTION COATINGS RIBEPLECTION COATINGS
High efficiency silicon solar cells
06 p0052 A75-24217 08 p0192 A75-46017 Cost competitiveness of a solar cell array power source for ATS-6 educational TV terminal [NASA-TM-X-71720] 07 p0140 N75-24 Thin film coatings in solar-thermal power systems 06 p0056 A75-25679 07 p0140 N75-24110 A 15% efficient antireflection-coated ATTITUDE CONTROL Prench activity in electric propulsion metal-oxide-semiconductor solar cell 07 p0119 A75-36275 Principles and applications of selective solar 07 p0120 A75-36539 Design and test of a flywheel energy storage unit coatings for spacecraft application 08 p0181 A75-45511 Optical coatings for collection and conservation 08 p0193 A75-46028 AUTOCLAVING Development of a process for producing an ashless, low-sulfur fuel from coal. Volume 2: Laboratory studies. Part 1: Autoclave of solar energy 08 p0181 A75-45512 A comparison of the COMSAT violet and non-reflective cells experiments [PB-236305/9] 08 p0192 A75-46015 05 p0040 N75-15169 Indium tin oxide-coated silicon as a selective AUTOMATIC CONTROL Pundamentals of automatic control of space nuclear power plants --- Russian book absorber --- for solar radiation 08 p0195 A75-46951 06 p0048 A75-23229 Steady state free convection in an unconfined AUTOMATIC TEST EQUIPMENT Laboratory semiautomatic infrared device for determining the composition of petroleum products in sewage geothermal reservoir 05 p0009 A75-11069 ARCHITECTURE Space and energy conservation housing prototype 07 p0125 A75-38648 unit development [NASA-CR-143201] AUTOBOBILE ACCIDENTS 07 p0160 N75-27567 Study on the effects of the energy crisis and 55 mph speed limit in Michigan ABCTIC REGIONS A heat pump powered by natural thermal gradients 05 p0006 A75-10550 [PB-241843/2] 08 p0212 N75-33499 AUTOHOBILE ENGINES 05 p0006 A75-10550
Improving the oil storage system of western Siberia
[AD-A002717] 06 p0092 N75-19705
Submarine tanker concepts and problems
[COM-75-10009/9] 07 p0132 N75-22264
ARID LANDS Peasibility demonstration of a road vehicle fueled 06 p0092 N75-19705 with hydrogen-enriched gasoline 05 p0008 A75-10574 07 p0132 N75-22264 Liquid hydrogen as an automotive fuel 06 p0048 A75-23238 Solar powered pump [WASA-CASE-NPO-13567-1] Methanol as fuel for vehicle engines 07 p0133 N75-22746 06 p0050 A75-23506 The impact of energy development on water resources in arid lands. Literature review and annotated bibliography Methane gas engines for connercial vehicles and busses 06 p0050 A75-23507 The Stirling engine for vehicle propulsion
06 p0050 A75-23509
Automotive hydrogen engines, and onboard storage [PB-240008/3] 07 p0157 N75-26550 ARMED FORCES (UNITED STATES)
Projected regional energy availability in 1985 [AD-A008938] 08 p0205 N75-30659 nethods ARRAYS 08 p0172 A75-42284 State of the art and prospects for electric vehicles
[BLL-OA-TRANS-1250-(6196.3)] 06 p0074 N75-16712
Inspection and maintenance of light-duty gasoline
powered motor vehicles: A guide for
implementation --- emissions inspection program
[PB-236587/2] 06 p0090 N75-18784
A study of technological improvements in Summary of results of solar power arrays for the concentration of energy study [PB-238003/8] 06 p0089 N75-18756 ASYMMETRY Design analysis of asymmetric solar receivers
[SAND-74-0124] 06 p0076 N75-16986 ATLANTIC OCEAN Energy exchange at the surface of the western North Atlantic Ocean automotive fuel consumption. Volume 1: Executive summary [AD-A007296] 07 p0146 H75-242 Atlantic outer continental shelf energy resources: [PB-238693/6] 07 p0132 N75-22481 A study of technological improvements in 07 p0146 N75-24285 An economic analysis [COM-75-10330/9] automobile fuel consumption. Volume 2: 07 p0152 N75-26484 Comprehensive discussion ATHOSPHERIC COMPOSITION 07 p0132 N75-22482 [PB-238694/4] Changes in the global energy balance ---A study of technological improvements in automobile fuel consumption. Volume 3A: Appendixes 1 - 111 atmospheric composition and the effect of air pollution [PB-238075/61 [PB-238695/1] 06 p0106 N75-20936 07 p0133 N75-22483

A study of technological improvements in	Development of lithium/sulfur cells for
automobile fuel consumption. Volume 3B:	application to electric automobiles
Appendixes 4 - 7	
[PB-238696/9] 07 p0133 N75-22484 The role for Federal R and D on alternative	Impact of future use of electric cars in the Los
	Angeles region. Volume 1: Executive summary
automotive power systems	and technical report
[PB-238771/0] 07 p0137 #75-23391	[PB-238877/5] 07 p0131 B75-2219
The oxidation of ethylene in automotive engine	Impact of future use of electric cars in the Los
exhaust gas; an experimental investigation	Angeles region. Volume 2: Task reports on
07 p0138 N75-23719	electric car characterization and baseline
Aerodynamic design of a free power turbine for a	projections
75 KW gas turbine automotive engine	[PB-238878/3] 07 p0131 N75-2220
[NASA-TH-X-71714] 07 p0140 N75-24106	Impact of future use of electric cars in the Los
Air pollution: Conference on Low Pollution Power	Angeles region. Volume 3: Task reports on
Systems Development	impact and usage analysis
[PB-240564/5] 07 p0162 N75-27618	[PB-238879/1] 07 p0131 N75-2220
Development of low emission porous plate combustor	Technological improvements to automobile fuel
for automotive gas turbine and Rankine cycle	consumption. Volume 1: Executive summary
engines air pollution control	[PB-238677/9] 07 p0132 N75-2247
[PB-240776/5] 07 p0162 N75-27619	Technological improvements to automobile fuel
Increased fuel economy in transportation systems	consumption. Volume 2A: Sections 1 through 23
by use of energy management. Volume 1: General	[PB-238678/7] 07 p0132 N75-2247
results and discussion	Technological improvements to automobile fuel
[PB-240220/4] 07 p0163 N75-27970	consumption. Volume 2B: Sections 24 and 25 and
Contribution to the improvement of the regulating	appendixes A through I
process of ignition controlled engines	[PB-238679/5] 07 p0132 N75-2248
[PUBL-165] 08 p0206 N75-31285	Bickel-zinc batteries for hybrid vehicle operation
Study of potential for motor vehicle fuel economy	[PB-239710/7] 07 p0156 N75-2651
improvement. Puel economy test procedure panel	Study of potential for motor vehicle fuel economy
report no. 6	improvement. Safety implications panel report
[PB-241776/4] 08 p0210 N75-32470	no. 2
Study of potential for motor vehicle fuel economy	[PB-241772/3] 08 p0212 H75-3341
improvement. Technology panel report no. 4	AUXILIARY POWER SOURCES
[PB-241774/9] 08 p0210 N75-32471	Progress in development of auxiliary MHD power
AUTOMOBILE PUELS	plant components at Avco Everett Research.
Some LNG vehicle developments for automotive	Laboratory, Inc
conversion systems and fueling stations	[ASME PAPER 74-WA/ENER-6] 05 p0016 A75-1683
06 p0048 A75-23236	An engine project engineer's view of advanced
Peasibility study of alternative fuels for	secondary power systems
automotive transfortation. Volume 1: Executive	[SAE PAPER 740884] 05 p0019 A75-1692
summary	P-15 secondary power systems
[PB-235581/6] 05 p0041 N75-15187	[SAE PAPER 740885] 06 p0048 A75-2294
Peasibility study of alternative fuels for	AXIAL PLOW PUMPS
automotive transportation. Volume 2: Technical	Solar sea power axial flow pumps
section	[PB-236997/3] 06 p0082 N75-1782
[PB-235582/4] 05 p0041 #75-15188	AXIAL PLOW TORBINES
Peasibility study of alternative fuels and	Aerodynamic design of a free power turbine for a
automotive transportation. Volume 3: Appendices	75 KW gas turbine automotive engine
[PB-235583/2] 05 p0041 N75-15189	[NASA-TH-X-71714] 07 p0140 N75-2410
Development of high specific energy batteries for	Ocean thermal difference power plant turbine design
electric vehicles	[PB-239371/8] 07 p0150 N75-2531
[ANL-8058] 06 p0076 N75-16990	
Environmental aspects of methanol as vehicular	D
fuel: Health and environmental effects	, В
[UCRL-76076] 06 p0095 N75-19867	BACKFIRE
Synthetic fuels for ground transportation with	Backfire control techniques for hydrogen-fueled
special emphasis on hydrogen	internal combustion engines
[NASA-TM-X-72652] 06 p0103 N75-20868	08 p0178 A75-44789
AUTOHOBILES	
AUTOBOBILES Energy carriers in space conditioning and	08 p0178 A75-44789 BACTERIA The utilization of solar energy for hydrogen
AUTOMOBILES Energy carriers in space conditioning and automotive applications - A comparison of	BACTERIA The utilization of solar energy for hydrogen production by cell-free system of photosynthetic
AUTOMOBILES Energy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity	BACTERIA The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms
AUTOMOBILES Energy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity 05 p0005 A75-10540	BACTERIA The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms 08 p0176 A75-44770
AUTOMOBILES Energy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity 05 p0005 A75-10540 Energy efficiency of current intercity passenger	BACTERIA The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms 08 p0176 A75-44770 BARIUM TITABATES
AUTOMOBILES Energy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity 05 p0005 A75-10540 Energy efficiency cf current intercity passenger transportation modes	BACTERIA The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms 08 p0176 A75-44770 BARIUM TITABATES Dielectric power conversion
AUTOMOBILES Energy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity 05 p0005 A75-10540 Energy efficiency cf current intercity passenger transportation modes [ATAM PAPER 75-314] 06 p0047 A75-22513	BACTERIA The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms 08 p0176 A75-44770 BARIUM TITABATES Dielectric power conversion 08 p0189 A75-45979
AUTOMOBILES Energy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity 05 p0005 A75-10540 Energy efficiency of current intercity passenger transportation modes [AIAA PAPER 75-314] Time factors in slowing down the rate of growth of	BACTERIA The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms 08 p0176 A75-44770 BARIUM TITAWATES Dielectric power conversion 08 p0189 A75-45979 BEDROCK
AUTOMOBILES Energy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity 05 p0005 A75-10540 Energy efficiency cf current intercity passenger transportation modes [ATAM PAPER 75-314] 06 p0047 A75-22513 Time factors in slowing down the rate of growth of demand for primary energy in the United States	BACTERIA The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms 08 p0176 A75-44776 BARIUM TITANATES Dielectric power conversion 08 p0189 A75-45979 BBDROCK Theory of heat extraction from fractured hot dry
AUTOMOBILES Energy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity 05 p0005 A75-10540 Energy efficiency cf current intercity passenger transportation modes [AIAA PAPER 75-314] 06 p0047 A75-22513 Time factors in slowing down the rate of growth of demand for primary energy in the United States 06 p0059 A75-27780	BACTERIA The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms 08 p0176 A75-44776 BARIUM TITANATES Dielectric power conversion BBDBOCK Theory of heat extraction from fractured hot dry rock
AUTOMOBILES Energy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity 05 p0005 A75-10540 Energy efficiency of current intercity passenger transportation modes [AIAA PAPER 75-314] Time factors in slowing down the rate of growth of demand for primary energy in the United States 06 p0059 A75-27780 Iron titanium hydride as a source of hydrogen fuel	BACTERIA The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms 08 p0176 A75-44770 BARIUM TITAMATES Dielectric power conversion 08 p0189 A75-45975 BEDROCK Theory of heat extraction from fractured hot dry rock 06 p0057 A75-26544
AUTOMOBILES Energy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity 05 p0005 A75-10540 Energy efficiency cf current intercity passenger transportation modes [ATAM PAPER 75-314] 06 p0047 A75-22513 Time factors in slewing down the rate of growth of demand for primary energy in the United States 06 p0059 A75-27780 Iron titanium hydride as a source of hydrogen fuel for stationary and automotive applications	BACTERIA The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms 08 p0176 A75-44770 BARIUM TITANATES Dielectric power conversion 08 p0189 A75-45979 BEDROCK Theory of heat extraction from fractured hot dry rock 06 p0057 A75-26544 BEDS (PROCESS ERGIHERRIFG)
AUTOMOBILES Energy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity 05 p0005 A75-10540 Energy efficiency cf current intercity passenger transportation modes [AIAA PAPER 75-314] 06 p0047 A75-22513 Time factors in slowing down the rate of growth of demand for primary energy in the United States 06 p0059 A75-27780 Iron titanium hydride as a source of hydrogen fuel for stationary and automotive applications [BEL-18651] 05 p0030 N75-12441	BACTERIA The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms 08 p0176 A75-44770 BARIUM TITANATES Dielectric power conversion BBDBOCK Theory of heat extraction from fractured hot dry rock 06 p0057 A75-26544 BEDS (PROCESS ENGINEERING) Gasification of solid wastes in fixed beds
AUTOMOBILES Energy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity 05 p0005 A75-10540 Energy efficiency cf current intercity passenger transportation modes [AIAA PAPER 75-314] 06 p0047 A75-22513 Time factors in slowing down the rate of growth of demand for primary energy in the United States 06 p0059 A75-27780 Iron titanium hydride as a source of hydrogen fuel for stationary and automotive applications [BNL-18651] Transportation vehicle energy intensities. A	BACTERIA The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms 08 p0176 A75-44770 BARIUM TITAMATES Dielectric power conversion 08 p0189 A75-45970 BEDROCK Theory of heat extraction from fractured hot dry rock 06 p0057 A75-26544 BEDS (PROCESS ENGINEERING) Gasification of solid wastes in fixed beds [ASHE PAPER 74-WA/PWR-10] 05 p0018 A75-16882
AUTOMOBILES Energy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity 05 p0005 A75-10540 Energy efficiency cf current intercity passenger transportation modes [ATAA PAPER 75-314] 06 p0047 A75-22513 Time factors in slowing down the rate of growth of demand for primary energy in the United States 06 p0059 A75-27780 Iron titanium hydride as a source of hydrogen fuel for stationary and automotive applications [BNL-18651] .05 p0030 N75-12441 Transportation vehicle energy intensities. A joint pOT/NASA reference paper energy	BACTERIA The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms 08 p0176 A75-44770 BARIUM TITAWATES Dielectric power conversion 08 p0189 A75-45979 BEDROCK Theory of heat extraction from fractured hot dry rock 06 p0057 A75-26540 BEDS (PROCESS ENGINEERING) Gasification of solid wastes in fixed beds [ASHE PAPER 74-WA/PWR-10] BEWARD CELLS
AUTOMOBILES Energy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity 05 p0005 A75-10540 Energy efficiency cf current intercity passenger transportation modes [ATAM PAPER 75-314] 06 p0047 A75-22513 Time factors in slowing down the rate of growth of demand for primary energy in the United States 06 p0059 A75-27780 Iron titanium hydride as a source of hydrogen fuel for stationary and automotive applications [BNL-18651] Transportation vehicle energy intensities. A joint DOT/MASA reference paper energy consumption of air and ground vehicles	BACTERIA The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms 08 p0176 A75-44770 BARIUM TITANATES Dielectric power conversion 08 p0189 A75-45979 BBDROCK Theory of heat extraction from fractured hot dry rock 06 p0057 A75-26540 BEDS (PROCESS ENGINEBRING) Gasification of solid wastes in fixed beds [ASHE PAPPE 74-WA/PWR-10] 05 p0018 A75-16882 BBHAED CELLS Natural convection in enclosed spaces - A review
AUTOMOBILES Energy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity 05 p0005 A75-10540 Energy efficiency cf current intercity passenger transportation modes [AIAA PAPER 75-314] Time factors in slewing down the rate of growth of demand for primary energy in the United States 06 p0059 A75-27780 Iron titanium hydride as a source of hydrogen fuel for stationary and automotive applications [BNL-18651] Transportation vehicle energy intensities. A joint DOT/NASA reference paper energy consumption of air and ground vehicles [NASA-TR-I-62404] 05 p0035 N75-13690	BACTERIA The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms 08 p0176 A75-44770 BARIUM TITAMATES Dielectric power conversion 08 p0189 A75-45970 BEDROCK Theory of heat extraction from fractured hot dry rock 06 p0057 A75-26540 BEDS (PROCESS ENGINEERING) Gasification of solid wastes in fixed beds [ASHE PAPER 74-WA/PWR-10] BEHARD CELLS Natural convection in enclosed spaces - A review of application to solar energy collection
AUTOMOBILES Energy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity 05 p0005 A75-10540 Energy efficiency cf current intercity passenger transportation modes (ATAA PAPER 75-314) 06 p0047 A75-22513 Time factors in slowing down the rate of growth of demand for primary energy in the United States 06 p0059 A75-27780 Iron titanium hydride as a source of hydrogen fuel for stationary and automotive applications (BNL-18651) 05 p0030 N75-12441 Transportation vehicle energy intensities. A joint poT/NASA reference paper energy consumption of air and ground vehicles (NASA-TB-I-62404) 05 p0035 N75-13690 Analytical description of the modern steam	BACTERIA The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms 08 p0176 A75-44770 BARIUM TITAWATES Dielectric power conversion 08 p0189 A75-45979 BEDROCK Theory of heat extraction from fractured hot dry rock 06 p0057 A75-26544 BEDS (PROCESS ENGINEERING) Gasification of solid wastes in fixed beds [ASHE PAPER 74-WA/PWR-10] 05 p0018 A75-16882 BEHARD CELLS Natural convection in enclosed spaces - A review of application to solar energy collection [ASHE PAPER 74-WA/HT-12] 05 p0017 A75-16860
AUTOMOBILES Energy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity 05 p0005 A75-10540 Energy efficiency cf current intercity passenger transportation modes [ATAA PAPER 75-314] 06 p0047 A75-22513 Time factors in slowing down the rate of growth of demand for primary energy in the United States 06 p0059 A75-27780 Iron titanium hydride as a source of hydrogen fuel for stationary and automotive applications [BNL-18651] 05 p0030 N75-12441 Transportation vehicle energy intensities. A joint DOT/NASA reference paper energy consumption of air and ground vehicles [NASA-TB-I-62404] 05 p0035 N75-13690 Analytical description of the modern steam automobile	BACTERIA The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms 08 p0176 A75-44776 BARIUM TITANATES Dielectric power conversion 08 p0189 A75-45776 BEDROCK Theory of heat extraction from fractured hot dry rock 06 p0057 A75-26546 BEDS (PROCESS EBGINERRING) Gasification of solid wastes in fixed beds [ASHE PAPER 74-WA/PWR-10] BENARD CELLS Natural convection in enclosed spaces - A review of application to solar energy collection [ASHE PAPER 74-WA/ET-12] BETA PARTICLES
AUTOMOBILES Energy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity 05 p0005 A75-10540 Energy efficiency cf current intercity passenger transportation modes [AIAA PAPER 75-314] 06 p0047 A75-22513 Time factors in slewing down the rate of growth of demand for primary energy in the United States 06 p0059 A75-27780 Iron titanium hydride as a source of hydrogen fuel for stationary and automotive applications [BNL-18651] 105 p0030 N75-12441 Transportation vehicle energy intensities. A joint DOT/NASA reference paper energy consumption of air and ground vehicles [NASA-TR-I-62404] 05 p0035 N75-13690 Analytical description of the modern steam automobile [NASA-TR-I-72199] 05 p0035 N75-14134	BACTERIA The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms 08 p0176 A75-44776 BARIUM TITANATES Dielectric power conversion 08 p0189 A75-45979 BEDROCK Theory of heat extraction from fractured hot dry rock 06 p0057 A75-26548 BEDS (PROCESS ENGINERRING) Gasification of solid wastes in fixed beds [ASHE PAPER 74-WA/PWR-10] BEHARD CELLS Natural convection in enclosed spaces - A review of application to solar energy collection [ASHE PAPER 74-WA/ET-12] DETA PARTICLES Advanced betavoltaic power sources
AUTOMOBILES Energy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity 05 p0005 A75-10540 Energy efficiency cf current intercity passenger transportation modes [ATAM PAPER 75-314] Time factors in slowing down the rate of growth of demand for primary energy in the United States 06 p0059 A75-27780 Iron titanium hydride as a source of hydrogen fuel for stationary and automotive applications [BNL-18651] Transportation vehicle energy intensities. A joint pot/NASA reference paper energy consumption of air and ground vehicles [NASA-TH-1-62404] Analytical description of the modern steam automobile [NASA-TH-1-72199] O5 p0035 N75-14134 Caltech seminar series on energy consumption in	BACTERIA The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms 08 p0176 A75-44770 BARIUM TITAWATES Dielectric power conversion 08 p0189 A75-45973 BEDROCK Theory of heat extraction from fractured hot dry rock 06 p0057 A75-26544 BEDS (PROCESS ENGINEBRING) Gasification of solid wastes in fixed beds [ASHE PAPER 74-WA/PWR-10] 05 p0018 A75-16882 BEHARD CELLS Natural convection in enclosed spaces - A review of application to solar energy collection [ASHE PAPER 74-WA/HT-12] BETA PARTICLES Advanced betavoltaic power sources 05 p0007 A75-10563
AUTOMOBILES Energy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity 05 p0005 A75-10540 Energy efficiency cf current intercity passenger transportation modes [ATAA PAPER 75-314] 06 p0047 A75-22513 Time factors in slowing down the rate of growth of demand for primary energy in the United States 06 p0059 A75-27780 Iron titanium hydride as a source of hydrogen fuel for stationary and automotive applications [BNL-18651] 05 p0030 N75-12441 Transportation vehicle energy intensities. A joint p0T/NASA reference paper energy consumption of air and ground vehicles [NASA-TR-I-62404] 05 p0035 N75-13690 Analytical description of the modern steam automobile [NASA-TR-I-72199] 05 p0035 N75-14134 Caltech seminar series on energy consumption in private transportation	BACTERIA The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms 08 p0176 A75-44776 BARIUM TITANATES Dielectric power conversion 08 p0189 A75-45979 BBDROCK Theory of heat extraction from fractured hot dry rock 06 p0057 A75-26546 BEDS (PROCESS ENGINEERING) Gasification of solid wastes in fixed beds [ASHE PAPER 74-WA/PWR-10] BBHARD CELLS Natural convection in enclosed spaces - A review of application to solar energy collection [ASHE PAPER 74-WA/HT-12] BBTA PARTICLES Advanced betavoltaic power sources 05 p0007 A75-10563 BIBLIOGRAPHIES
AUTOMOBILES Energy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity 05 p0005 A75-10540 Energy efficiency cf current intercity passenger transportation modes [AIAA PAPER 75-314] 06 p0047 A75-22513 Time factors in slewing down the rate of growth of demand for primary energy in the United States 06 p0059 A75-27780 Iron titanium hydride as a source of hydrogen fuel for stationary and automotive applications [BNL-18651] 05 p0030 N75-12441 Transportation vehicle energy intensities. A joint DOT/NASA reference paper energy consumption of air and ground vehicles [NASA-TR-I-62404] 05 p0035 N75-13690 Analytical description of the modern steam automobile [NASA-TR-I-72199] 05 p0035 N75-14134 Caltech seminar series on energy consumption in private transportation [PP-235348/0] 05 p0040 N75-15179	BACTERIA The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms 08 p0176 A75-44770 BARIUM TITAMATES Dielectric power conversion 08 p0189 A75-45970 BBDROCK Theory of heat extraction from fractured hot dry rock 06 p0057 A75-26540 BEDS (PROCESS ENGINEBRING) Gasification of solid wastes in fixed beds [ASME PAPPE 74-WA/PWR-10] BENARD CRLIS Natural convection in enclosed spaces - A review of application to solar energy collection [ASME PAPPE 74-WA/BT-12] BETA PARTICLES Advanced betavoltaic power sources 05 p0007 A75-10563 BIBLIOGRAPHIES Coal processing: Gasification, liquefaction,
AUTOMOBILES Energy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity	BACTERIA The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms 08 p0176 A75-44770 BARIUM TITAWATES Dielectric power conversion 08 p0189 A75-45973 BEDROCK Theory of heat extraction from fractured hot dry rock 06 p0057 A75-26544 BEDS (PROCESS ENGINEBRING) Gasification of solid wastes in fixed beds [ASHE PAPER 74-WA/PWR-10] 05 p0018 A75-16882 BEHAED CELLS Natural convection in enclosed spaces - A review of application to solar energy collection [ASHE PAPER 74-WA/ET-12] BETA PARTICLES Advanced betavoltaic power sources 05 p0007 A75-10563 BIBLIOGRAPHIES Coal processing: Gasification, liquefaction, desulfurization: A bibliography, 1930 - 1974
Energy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity 05 p0005 A75-10540 Energy efficiency cf current intercity passenger transportation modes [ATAA PAPER 75-314] 06 p0047 A75-22513 Time factors in slowing down the rate of growth of demand for primary energy in the United States 06 p0059 A75-27780 Iron titanium hydride as a source of hydrogen fuel for stationary and automotive applications [BNL-18651] 05 p0030 N75-12441 Transportation vehicle energy intensities. A joint DOT/NASA reference paper energy consumption of air and ground vehicles [NASA-TR-I-62404] 05 p0035 N75-13690 Analytical description of the modern steam automobile [NASA-TR-I-72199] 05 p0035 N75-14134 Caltech seminar series on energy consumption in private transportation 6 p0040 N75-15179 Caltech seminar series on energy consumption in private transportation: Administrative summary	BACTERIA The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms 08 p0176 A75-44770 BARIUM TITANATES Dielectric power conversion 08 p0189 A75-45979 BBDROCK Theory of heat extraction from fractured hot dry rock 06 p0057 A75-26540 BEDS (PROCESS ENGINEBRING) Gasification of solid wastes in fixed beds [ASHE PAPER 74-WA/PWR-10] BBHARD CELLS Natural convection in enclosed spaces - A review of application to solar energy collection [ASHE PAPER 74-WA/HT-12] BBTA PARTICLES Advanced betavoltaic power sources BIBLIOGRAPHIES Coal processing: Gasification, liquefaction, desulfurization: A bibliography, 1930 - 1974 [TID-3349] 05 p0003 N75-10563
AUTOMOBILES Energy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity 05 p0005 A75-10540 Energy efficiency cf current intercity passenger transportation modes [AIAA PAPER 75-314] Time factors in slewing down the rate of growth of demand for primary energy in the United States 06 p0059 A75-27780 Iron titanium hydride as a source of hydrogen fuel for stationary and automotive applications [BNL-18651] Transportation vehicle energy intensities. A joint DOT/NASA reference paper energy consumption of air and ground vehicles [NASA-TR-X-62404] Analytical description of the modern steam automobile [NASA-TR-X-72199] Caltech seminar series on energy consumption in private transportation [PP-235348/0] Caltech seminar series on energy consumption in private transportation: Administrative summary [PB-235349/8] 05 p0041 N75-15184	BACTERIA The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms 08 p0176 A75-44770 BARIUM TITAMATES Dielectric power conversion 08 p0189 A75-45970 BBDROCK Theory of heat extraction from fractured hot dry rock 06 p0057 A75-26540 BEDS (PROCESS ENGINEBRING) Gasification of solid wastes in fixed beds [ASME PAPPE 74-WA/PWR-10] BENARD CRLIS Natural convection in enclosed spaces - A review of application to solar energy collection [ASME PAPPE 74-WA/BT-12] BETA PARTICLES Advanced betavoltaic power sources 05 p0007 A75-10563 BIBLIOGRAPHIES Coal processing: Gasification, liquefaction, desulfurization: A bibliography, 1930 - 1974 [TID-3349] BSF-Bann energy abstracts: A monthly abstract
Energy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity Description of current intercity passenger transportation modes [ATAA PAPER 75-314] Time factors in slowing down the rate of growth of demand for primary energy in the United States Description of hydrogen fuel for stationary and automotive applications [BRL-18651] Transportation vehicle energy intensities. A joint DOT/NASA reference paper energy consumption of air and ground vehicles [NASA-TH-1-62404] Analytical description of the modern steam automobile [NASA-TH-1-72199] Caltech seminar series on energy consumption in private transportation [PB-235348/0] Caltech seminar series on energy consumption in private transportation: Administrative summary [PB-235349/8] High energy battery program at Argonne National	BACTERIA The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms 08 p0176 A75-44770 BARIUM TITAWATES Dielectric power conversion 08 p0189 A75-45973 BEDROCK Theory of heat extraction from fractured hot dry rock 06 p0057 A75-26544 BEDS (PROCESS ENGINEBRING) Gasification of solid wastes in fixed beds [ASHE PAPER 74-WA/PWR-10] 05 p0018 A75-16882 BEHARD CELLS Natural convection in enclosed spaces - A review of application to solar energy collection [ASHE PAPER 74-WA/HT-12] 05 p0017 A75-16860 BETA PARTICLES Advanced betavoltaic power sources 05 p0007 A75-10563 BIBLIOGRAPHIES Coal processing: Gasification, liquefaction, desulfurization: A bibliography, 1930 - 1974 [TID-3349] 05 p0023 B75-10578 BSF-Bann energy abstracts: A monthly abstract
AUTOMOBILES Energy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity 05 p0005 A75-10540 Energy efficiency cf current intercity passenger transportation modes [AIAA PAPER 75-314] Time factors in slewing down the rate of growth of demand for primary energy in the United States 06 p0059 A75-27780 Iron titanium hydride as a source of hydrogen fuel for stationary and automotive applications [BNL-18651] Transportation vehicle energy intensities. A joint DOT/NASA reference paper energy consumption of air and ground vehicles [NASA-TR-X-62404] Analytical description of the modern steam automobile [NASA-TR-X-72199] Caltech seminar series on energy consumption in private transportation [PP-235348/0] Caltech seminar series on energy consumption in private transportation: Administrative summary [PB-235349/8] 05 p0041 N75-15184	BACTERIA The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms 08 p0176 A75-44776 BARIUM TITANATES Dielectric power conversion 08 p0189 A75-45979 BBDROCK Theory of heat extraction from fractured hot dry rock 06 p0057 A75-26544 BEDS (PROCESS ENGINERRING) Gasification of solid wastes in fixed beds [ASME PAPPE 74-WA/PWR-10] BENARD CRLIS Natural convection in enclosed spaces - A review of application to solar energy collection [ASME PAPPE 74-WA/ET-12] BETA PARTICLES Advanced betavoltaic power sources 05 p0007 A75-10563 BIBLIOGRAPHIES Coal processing: Gasification, liquefaction, desulfurization: A bibliography, 1930 - 1974 [TID-3349] BSF-Bann energy abstracts: A monthly abstract

CADMIUM SULPIDES SUBJECT INDEX

Hydrogen future fuel: A literature survey issued	Clinch River Breeder Reactor: A combined power
quarterly, issue no. 6 bibliographies 05 p0027 N75-11110	and fuel source [CONF-740609-4] 05 p0038 N75-14593
NSF-RANK energy abstracts. A monthly abstract	ERINES 05 p0038 873-14393
journal of energy research, volume 2, no. 4	Materials screening program for the LLL geothermal
[ORNL-EIS-74-52-VOL-2-4] 05 p0029 N75-11469 The gasification of coal: A bibliography	project [UCRL-75353] 06 p0082 H75-17815
[PB-234294/7] 05 p0034 N75-13400	BROMIDES
Coal petrography and petrology. A bibliography 1964 - 1973	Study on parameter variations for solar powered lithium bromide absorption cooling
[PB-236351/3] 06 p0072 N75-16123	08 p0186 A75-45938
Development of a process for producing an ashless low sulfur fuel from coal. Volume 4. Product	BUBBLES Investigation of bubble formation in arteries of
studies. Part 2. Annotated bibliography on	gas-controlled heat pipes
mineral fiber production from coal minerals [PB-237763/8] 06 p0095 N75-19839	[AIAA PAPER 75-655] 07 p0114 A75-32913 BUILDINGS
Solar energy: A bibliography	Solar heating and cooling of buildings
[TID-3351] 06 p0103 N75-20871	06 p0059 A75-27783 Cooling by solar heat heating and cooling
NSF-RANN energy abstracts. A monthly abstract journal of energy research	system for buildings
[ORNL-EIS-74-52-VOL-2-NO-6] 07 p0146 N75-24532	[AIAA PAPER 75-609] 06 p0062 A75-28590
Mineral resources and the environment. Appendix to section 4: Report of panel on demand for	Solar heating and cooling 07 p0111 175-31269
fuel and mineral resources	Energy, environment and building Book
[PE-239583/8] 07 p0153 N75-26490 Bydrogen-future fuel-A bibliography (with emphasis	07 p0111 A75-31448 Solar energy and architecture
on cryogenic technology)	07 p0112 A75-31698
[COM-75-10289/7] 07 p0155 N75-26509 Energy: An annotated bibliography	Heating buildings with solar energy 07 p0117 A75-34933
[NASA-TM-X-66766] 07 p0159 N75-27557	Retrofitting existing housing for energy
Energy: An annotated bibliography [NASA-TM-X-72433] 07 p0159 N75-27558	conservation: An economic analysis [COM-75-50049/6] 07 p0135 N75-22914
Energy conversion	Energy conservation: A case study for a large
[AD-A009600] 08 p0208 N75-31580 BINARY MIXTURES	manufacturing plant
Operational, maintenance, and environmental	[PB-239302/3] 07 p0151 N75-25323 Development of flat-plate solar collectors for the
problems associated with a fossil fuel-fired	heating and cooling of buildings
potassium steam binary vapor cycle [ORNL-NSF-EP-30] 06 p0090 M75-18769	[NASA-CR-134804] 07 p0154 N75-26495 Residential energy consumption and small scale
BIOCHEMICAL FUEL CELLS	options of energy systems for space heating
The introduction of the principles of biological energy supply in future technical systems	[PB-239941/8] 07 p0154 N75-26501 Proceedings of the Conference on Energy
06 p0050 A75-23511	Conservation in Commercial, Residential and
Photoproduction of hydrogen via microbial and	Industrial Buildings
biochemical processes 08 p0171 A75-42279	[PB-240306/1] 08 p0200 N75-28539 BURNERS
08 p0171 A75-42279 BIOMASS BURRGY PRODUCTION	BURNERS Oxides of nitrogen control techniques for
08 p0171 A75-42279	BURBERS
08 p0171 A75-42279 BIOMASS REERGY PRODUCTION Energy from agriculture biomass energy conversion 08 p0191 A75-46000	BURNERS Oxides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 Design installation and operation of a 25
08 p0171 A75-42279 BIOMASS BURBRY PRODUCTION Energy from agriculture biomass energy conversion	BURNERS Orides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541
08 p0171 A75-42279 BIOMASS BEERGY PRODUCTION Energy from agriculture biomass energy conversion 08 p0191 A75-46000 BOILERS Theoretical determination of the temperature in a solar water heater/steady state/	BURNERS Orides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] 06 p0087 B75-18734
08 p0171 A75-42279 BIOMASS BEERGY PRODUCTION Energy from agriculture biomass energy conversion 08 p0191 A75-46000 BOILERS Theoretical determination of the temperature in a	BURNERS Orides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification
08 p0171 A75-42279 BIOMASS BEERGY PRODUCTION Energy from agriculture biomass energy conversion 08 p0191 A75-46000 BOILERS Theoretical determination of the temperature in a solar water heater /steady state/ 07 p0112 A75-31513 Application of rocket engine technology to energy 08 p0185 A75-45933	BURNERS Orides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] Development of low emission porous plate combustor for automotive gas turbine and Rankine cycle engines air pollution control
08 p0171 A75-42279 BIOMASS EMERGY PRODUCTION Energy from agriculture biomass energy conversion 08 p0191 A75-46000 BOILERS Theoretical determination of the temperature in a solar water heater /steady state/ 07 p0112 A75-31513 Application of rocket engine technology to energy 08 p0185 A75-45933 Solar thermal subsystem specification study	BURNERS Orides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] 06 p0087 B75-18734 Development of low emission porous plate combustor for automotive gas turbine and Rankine cycle
08 p0171 A75-42279 BIOMASS BURBGY PRODUCTION Energy from agriculture biomass energy conversion 08 p0191 A75-46000 BOILERS Theoretical determination of the temperature in a solar water heater /steady state/ 07 p0112 A75-31513 Application of rocket engine technology to energy 08 p0185 A75-45933 Solar thermal subsystem specification study [PB-238005/3] 06 p0083 W75-17829 Survey of gas and oil burners for use with	BURNERS Orides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] Development of low emission porous plate combustor for automotive gas turbine and Rankine cycle engines air pollution control
08 p0171 A75-42279 BIOMASS EMERGY PRODUCTION Energy from agriculture biomass energy conversion 08 p0191 A75-46000 BOILERS Theoretical determination of the temperature in a solar water heater /steady state/ 07 p0112 A75-31513 Application of rocket engine technology to energy 08 p0185 A75-45933 Solar thermal subsystem specification study [PB-238005/3] Survey of gas and oil burners for use with BSF/RANB-ORNL potassium boiler	BURNERS Orides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] Development of low emission porous plate combustor for automotive gas turbine and Rankine cycle engines air pollution control
08 p0171 A75-42279 BIOMASS BWERGY PRODUCTION Energy from agriculture biomass energy conversion 08 p0191 A75-46000 BOILERS Theoretical determination of the temperature in a solar water heater /steady state/ 07 p0112 A75-31513 Application of rocket engine technology to energy 08 p0185 A75-45933 Solar thermal subsystem specification study [PB-238005/3] Survey of gas and oil burners for use with BSF/RANH-ORNI potassium boiler [ORNI_HSF-EP-45] Where the boilers are: A survey of electric	BURNERS Orides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] Development of low emission procus plate combustor for automotive gas turbine and Rankine cycle engines air pollution control [PB-240776/5] CCADMIUM COMPOUNDS Research on cadmium stannate selective optical
08 p0171 A75-42279 BIOMASS EMERGY PRODUCTION Energy from agriculture biomass energy conversion 08 p0191 A75-46000 BOILERS Theoretical determination of the temperature in a solar water heater /steady state/ 07 p0112 A75-31513 Application of rocket engine technology to energy 08 p0185 A75-45933 Solar thermal subsystem specification study [PB-238005/3] Survey of gas and oil burners for use with BSF/RANH-ORNL potassium boiler [ORNL-NSF-EP-45] Where the boilers are: A survey of electric utility boilers with potential capacity for	BURNERS Orides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] 06 p0087 N75-18734 Development of low emission porous plate combustor for automotive gas turbine and Rankine cycle engines air pollution control [PB-240776/5] CCADHIUM COMPOUNDS Research on cadmium stannate selective optical films for solar energy applications
08 p0171 A75-42279 BIOMASS BWERGY PRODUCTION Energy from agriculture biomass energy conversion 08 p0191 A75-46000 BOILERS Theoretical determination of the temperature in a solar water heater /steady state/ 07 p0112 A75-31513 Application of rocket engine technology to energy 08 p0185 A75-45933 Solar thermal subsystem specification study [PB-238005/3] Survey of gas and oil burners for use with BSF/RANB-OBNL potassium boiler [ORNL-NF-EP-45] Where the boilers are: A survey of electric utility boilers with potential capacity for burning solid waste as fuel [PB-239392/4] 07 p0143 N75-24135	BURNERS Orides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] Development of low emission porous plate combustor for automotive gas turbine and Rankine cycle engines air pollution control [PB-240776/5] CCADHIUM COMPOUNDS Research on cadmium stannate selective optical films for solar energy applications [PB-236208/5] CADMIUM SELEMIDES CADMIUM SELEMIDES
08 p0171 A75-42279 BIOMASS EMERGY PRODUCTION Energy from agriculture biomass energy conversion 08 p0191 A75-46000 BOILERS Theoretical determination of the temperature in a solar water heater /steady state/ 07 p0112 A75-31513 Application of rocket engine technology to energy 08 p0185 A75-45933 Solar thermal subsystem specification study [PB-238005/3] Survey of gas and oil burners for use with BSF/RANH-ORNL potassium boiler [ORNL-NSF-EP-45] Where the boilers are: A survey of electric utility boilers with potential capacity for burning solid waste as fuel [PB-239392/4] Conference proceedings, Steam Power Plant Workshop	BURNERS Orides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] 06 p0087 N75-18734 Development of low emission porous plate combustor for automotive gas turbine and Rankine cycle engines air pollution control [PB-240776/5] C CADHIUM COMPOUNDS Research on cadmium stannate selective optical films for solar energy applications [PB-236208/5] CADHIUM SELEMIDES Efficient CuInse2/CdS solar cells
O8 p0171 A75-42279 BIOMASS BWERGY PRODUCTION Energy from agriculture biomass energy conversion O8 p0191 A75-46000 BOILERS Theoretical determination of the temperature in a solar water heater /steady state/ O7 p0112 A75-31513 Application of rocket engine technology to energy O8 p0185 A75-45933 Solar thermal subsystem specification study [PB-238005/3] Survey of gas and oil burners for use with BSF/RAWB-ORNL potassium boiler [ORNL-NSF-EP-45] O6 p0087 N75-18728 Where the boilers are: A survey of electric utility boilers with potential capacity for burning solid waste as fuel [PB-239392/4] Conference proceedings, Steam Power Plant Workshop [PB-239514/3] Solar energy for process steam generation	BURNERS Orides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] Development of low emission porous plate combustor for automotive gas turbine and Rankine cycle engines air pollution control [PB-240776/5] CCADHIUM COMPOUNDS Research on cadmium stannate selective optical films for solar energy applications [PB-236208/5] CADMIUM SELEMIDES CADMIUM SELEMIDES
O8 p0171 A75-42279 BIOMASS EMERGY PRODUCTION Energy from agriculture biomass energy conversion O8 p0191 A75-46000 BOILERS Theoretical determination of the temperature in a solar water heater /steady state/ O7 p0112 A75-31513 Application of rocket engine technology to energy O8 p0185 A75-45933 Solar thermal subsystem specification study [PB-238005/3] Survey of gas and oil burners for use with BSF/RANH-ORNL potassium boiler [ORNL-HSF-PP-45] Where the boilers are: A survey of electric utility boilers with potential capacity for burning solid waste as fuel [PB-239392/4] Conference proceedings, Steam Power Plant Workshop [PB-239514/3] Solar energy for process steam generation [PB-238109/3] O7 p0144 N75-24154	BURNERS Orides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] Development of low emission porous plate combustor for automotive gas turbine and Rankine cycle engines air pollution control [PB-240776/5] CCADHIUM COMPOUNDS Research on cadmium stannate selective optical films for solar energy applications [PB-236208/5] CADMIUM SELEMIDES Efficient CuInse2/CdS solar cells 07 p0119 A75-36274 CADMIUM SULFIDES CdS-Cu2S cells - An outlook for terrestrial
O8 p0171 A75-42279 BIOMASS BWERGY PRODUCTION Energy from agriculture biomass energy conversion O8 p0191 A75-46000 BOILERS Theoretical determination of the temperature in a solar water heater /steady state/ O7 p0112 A75-31513 Application of rocket engine technology to energy O8 p0185 A75-45933 Solar thermal subsystem specification study [PB-238005/3] Survey of gas and oil burners for use with BSF/RAWB-ORNL potassium boiler [ORNL-NSF-EP-45] O6 p0087 N75-18728 Where the boilers are: A survey of electric utility boilers with potential capacity for burning solid waste as fuel [PB-239392/4] Conference proceedings, Steam Power Plant Workshop [PB-239514/3] Solar energy for process steam generation	BURNERS Orides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] Development of low emission porous plate combustor for automotive gas turbine and Rankine cycle engines air pollution control [PB-240776/5] CCADMIUM COMPOUNDS Research on cadmium stannate selective optical films for solar energy applications [PB-236208/5] CADMIUM SELEMIDES Efficient CuInse2/CdS solar cells 07 p0119 A75-36274 CADMIUM SULFIDES
BIOMASS EMERGY PRODUCTION Energy from agriculture biomass energy conversion BOILERS Theoretical determination of the temperature in a solar water heater /steady state/ 07 p0112 A75-46000 BOILERS Theoretical determination of the temperature in a solar water heater /steady state/ 08 p0185 A75-45933 Solar thermal subsystem specification study [PB-238005/3] Survey of gas and oil burners for use with BSF/RANH-ORNL potassium boiler [ORNL-HSF-EP-45] Where the boilers are: A survey of electric utility boilers with potential capacity for burning solid waste as fuel [PB-239392/4] Conference proceedings, Steam Power Plant Workshop [PB-239514/3] Solar energy for process steam generation [PB-238109/3] BOROSILICATE GLASS Glass-Si heterojunction solar cells [PB-239282/7] 07 p0145 N75-24156	BURNERS Orides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] 06 p0087 N75-18734 Development of low emission porous plate combustor for automotive gas turbine and Rankine cycle engines air pollution control [PB-240776/5] C CADMIUM COMPOUNDS Research on cadmium stannate selective optical films for solar energy applications [PB-236208/5] CADMIUM SELEMIDES Efficient CuInse2/CdS solar cells 07 p0119 A75-36274 CADMIUM SULFIDES CdS-Cu2S cells - An outlook for terrestrial applications 06 p0052 A75-24223 Progress in the development of cadmium sulphide
BIOMASS EMERGY PRODUCTION Energy from agriculture biomass energy conversion 08 p0191 A75-46000 BOILERS Theoretical determination of the temperature in a solar water heater /steady state/ 07 p0112 A75-31513 Application of rocket engine technology to energy 08 p0185 A75-45933 Solar thermal subsystem specification study [PB-238005/3] 06 p0083 N75-17829 Survey of gas and oil burners for use with BF/PRNW-ORNL potassium boiler [ORNL-NSP-EP-45] 06 p0087 N75-18728 Where the boilers are: A survey of electric utility boilers with potential capacity for burning solid waste as fuel [PB-239392/4] 07 p0143 N75-24135 Conference proceedings, Steam Power Plant Workshop [PB-239514/3] 07 p0144 N75-24148 Solar energy for process steam generation [PB-238109/3] BOROSILICATE GLASS Glass-Si heterojunction solar cells [PB-239282/7] BOUNDARY VALUE PROBLESS	BURNERS Orides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] Development of low emission porous plate combustor for automotive gas turbine and Rankine cycle engines air pollution control [PB-240776/5] C CADMIUM COMPOUNDS Research on cadmium stannate selective optical films for solar energy applications [PB-236208/5] CADMIUM SELEMIDES Efficient CuInse2/CdS solar cells CADMIUM SULFIDES CdS-Cu2S cells - An outlook for terrestrial applications 06 p0052 A75-24223
O8 p0171 A75-42279 BIOMASS EMERGY PRODUCTION Energy from agriculture biomass energy conversion O8 p0191 A75-46000 BOILERS Theoretical determination of the temperature in a solar water heater /steady state/ O7 p0112 A75-31513 Application of rocket engine technology to energy O8 p0185 A75-45933 Solar thermal subsystem specification study [PB-238005/3] Survey of gas and oil burners for use with BSF/RANH-ORNL potassium boiler [ORNL-NSF-EP-45] Where the boilers are: A survey of electric utility boilers with potential capacity for burning solid waste as fuel [PB-239392/4] Conference proceedings, Steam Power Plant Workshop [PB-239514/3] Solar energy for process steam generation [PB-238109/3] BOROSILICATE GLASS Glass-Si heterojunction solar cells [PB-239282/7] BOUNDARY VALUE PROBLEMS Effect of inhomogeneity of conductivity on end effect in a sectional HED generator	BUBBERS Orides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] Development of low emission porous plate combustor for automotive gas turbine and Rankine cycle engines air pollution control [PB-240776/5] CC CADHIUM COMPOUNDS Research on cadmium stannate selective optical films for solar energy applications [PB-236208/5] CADMIUM SELEMIDES Efficient CuInse2/CdS solar cells O7 p0119 A75-36274 CADMIUM SULFIDES CdS-Cu2S cells - An outlook for terrestrial applications 06 p0052 A75-24223 Progress in the development of cadmium sulphide terrestrial solar batteries 06 p0052 A75-24224 Purther progress in the technology of silk
O8 p0171 A75-42279 BIOMASS BWERGY PRODUCTION Energy from agriculture biomass energy conversion O8 p0191 A75-46000 BOILERS Theoretical determination of the temperature in a solar water heater /steady state/ O7 p0112 A75-31513 Application of rocket engine technology to energy O8 p0185 A75-45933 Solar thermal subsystem specification study [PB-238005/3] Survey of gas and oil burners for use with NFP/RANN-OBNL potassium boiler [ORNL-NSF-EP-45] Where the boilers are: A survey of electric utility boilers with potential capacity for burning solid waste as fuel [PB-239392/4] Conference proceedings, Steam Power Plant Workshop [PB-239514/3] Solar energy for process steam generation (PB-239514/3) BOROSILICATE GLASS Glass-Si heterojunction solar cells [PB-239282/7] BOUNDARY VALUE PROBLEMS Effect of inhomogeneity of conductivity on end	BURNERS Orides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] Development of low emission porous plate combustor for automotive gas turbine and Hankine cycle engines air pollution control [PB-240776/5] CCADHIUM COMPOUNDS Research on cadmium stannate selective optical films for solar energy applications [PB-236208/5] CADMIUM SELEMIDES Efficient CuInse2/CdS solar cells 07 p0119 A75-36274 CADMIUM SULFIDES CdS-Cu2S cells - An outlook for terrestrial applications 06 p0052 A75-24223 Progress in the development of cadmium sulphide terrestrial solar batteries 06 p0052 A75-24224 Purther progress in the technology of silk screened CdS solar cells
BIOMASS EMERGY PRODUCTION Energy from agriculture biomass energy conversion BOILERS Theoretical determination of the temperature in a solar water heater /steady state/ 07 p0112 A75-31513 Application of rocket engine technology to energy 08 p0185 A75-45933 Solar thermal subsystem specification study [PB-238005/3] 06 p0083 N75-17829 Survey of gas and oil burners for use with BSF/RANH-ORNL potassium boiler [ORNL-NSF-EP-45] Where the boilers are: A survey of electric utility boilers with potential capacity for burning solid waste as fuel [PB-239392/4] Conference proceedings, Steam Power Plant Workshop [PB-239109/3] Solar energy for process steam generation [PB-238109/3] O7 p0144 B75-24154 BOROSILICATE GLASS Glass-Si heterojunction solar cells [PB-239282/7] BOUNDARY VALUE PROBLESS Effect of inhomogeneity of conductivity on end effect in a sectional HED generator 07 p0119 A75-36233 BRAYTOM CYCLE Space power application of the all purpose	BURNERS Orides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] Development of low emission porous plate combustor for automotive gas turbine and Rankine cycle engines air pollution control [PB-240776/5] CC CADMIUM COMPOUNDS Research on cadmium stannate selective optical films for solar energy applications [PB-236208/5] CADMIUM SELEMIDES Efficient CuInse2/CdS solar cells 07 p0119 A75-36274 CADMIUM SULFIDES CdS-Cu2S cells - An outlook for terrestrial applications 06 p0052 A75-24223 Progress in the development of cadmium sulphide terrestrial solar batteries 06 p0052 A75-24224 Purther progress in the technology of silk screened CdS solar cells 06 p0052 A75-24225 Development of very low cost solar cells for
BIOMASS EMERGY PRODUCTION Energy from agriculture biomass energy conversion 08 p0191 A75-46000 BOILERS Theoretical determination of the temperature in a solar water heater /steady state/ 07 p0112 A75-31513 Application of rocket engine technology to energy 08 p0185 A75-45933 Solar thermal subsystem specification study [PB-238005/3] Survey of gas and oil burners for use with HSF/RANH-OBNL potassium boiler [ORNL-HSF-EP-45] Where the boilers are: A survey of electric utility boilers with potential capacity for burning solid waste as fuel (PB-239392/4] Conference proceedings, Steam Power Plant Workshop [PB-239514/3] Solar energy for process steam generation (PB-239514/3) BOROSILICATE GLASS Glass-Si heterojunction solar cells [PB-239282/7] BOUNDARY VALUE PROBLESS Effect of inhomogeneity of conductivity on end effect in a sectional HHD generator 07 p0119 A75-36233 BRAYTOM CYCLE Space power application of the all purpose min-Brayton rotating unit /min-BRU/	BURNERS Orides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] 06 p0087 M75-18734 Development of low emission porous plate combustor for automotive gas turbine and Rankine cycle engines air pollution control [PB-240776/5] CADHIUM COMPOUNDS Research on cadmium stannate selective optical films for solar energy applications [PB-236208/5] 06 p0071 M75-16117 CADMIUM SELEMIDES Efficient CuInse2/CdS solar cells 07 p0119 A75-36274 CADMIUM SULFIDES CdS-Cu25 cells - An outlook for terrestrial applications 06 p0052 A75-24223 Progress in the development of cadmium sulphide terrestrial solar batteries 06 p0052 A75-24224 Purther progress in the technology of silk screened CdS solar cells 06 p0052 A75-24225 Development of very low cost solar cells for terrestrial power generation
BIOMASS EMERGY PRODUCTION Energy from agriculture biomass energy conversion 8 poly 1 A75-46000 BOILERS Theoretical determination of the temperature in a solar water heater/steady state/ 07 pol 12 A75-31513 Application of rocket engine technology to energy 08 pol 85 A75-45933 Solar thermal subsystem specification study [PB-238005/3] Survey of gas and oil burners for use with BSF/RANH-ORNL potassium boiler [ORNL-HSF-EP-45] Where the boilers are: A survey of electric utility boilers with potential capacity for burning solid waste as fuel [PB-239392/4] Conference proceedings, Steam Power Plant Workshop [PB-239514/3] Solar energy for process steam generation [PB-238109/3] BOROSILICATE GLASS Glass-Si heterojunction solar cells [PB-239282/7] BOUNDARY VALUE PROBLESS Effect of inhomogeneity of conductivity on end effect in a sectional HED generator 07 pol 19 A75-36233 BRAYTOW CYCLE Space power application of the all purpose mini-Brayton rotating unit /mini-BRU/ 08 pol 193 A75-46019	BUBBERS Orides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] Development of low emission porous plate combustor for automotive gas turbine and Rankine cycle engines air pollution control [PB-240776/5] CC CADHIUH COMPOUNDS Research on cadmium stannate selective optical films for solar energy applications [PB-236208/5] CADMIUM SELEMIDES Efficient CuInse2/CdS solar cells 07 p0119 A75-36274 CADMIUM SULFIDES CdS-Cu2S cells - An outlook for terrestrial applications 06 p0052 A75-24223 Progress in the development of cadmium sulphide terrestrial solar batteries 06 p0052 A75-24224 Purther progress in the technology of silk screened CdS solar cells 06 p0052 A75-24225 Development of very low cost solar cells for terrestrial power generation 06 p0052 A75-24225 Solar cells for power generation on communication
BIOMASS EMERGY PRODUCTION Energy from agriculture biomass energy conversion 08 p0191 A75-46000 BOILERS Theoretical determination of the temperature in a solar water heater /steady state/ 07 p0112 A75-31513 Application of rocket engine technology to energy 08 p0185 A75-45933 Solar thermal subsystem specification study [PB-238005/3] Survey of gas and oil burners for use with MSF/RANH-ORNL potassium boiler [ORNL-NSF-EP-45] Where the boilers are: A survey of electric utility boilers with potential capacity for burning solid waste as fuel [PB-239392/4] Conference proceedings, Steam Power Plant Workshop [PB-239514/3] Solar energy for process steam generation [PB-239514/3] BOROSILICATE GLASS Glass-Si heterojunction solar cells [PB-239282/7] BOUNDARY VALUE PROBLESS Effect of inhomogeneity of conductivity on end effect in a sectional HHD generator 07 p0119 A75-36233 BRAYTOM CYCLE Space power application of the all purpose min-Brayton rotating unit /min-BRU/ 08 p0193 A75-46019 BREEDER BRACTORS Optimization of fusion power density in the	BURNERS Orides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] 06 p0087 M75-18734 Development of low emission porous plate combustor for automotive gas turbine and Rankine cycle engines air pollution control [PB-240776/5] CCADHIUH COMPOUBDS Research on cadmium stannate selective optical films for solar energy applications [PB-236208/5] 06 p0071 M75-16117 CADMIUM SELEMIDES Efficient CuInse2/CdS solar cells 07 p0119 A75-36274 CADMIUM SULFIDES CdS-Cu25 cells - An outlook for terrestrial applications 06 p0052 A75-24223 Progress in the development of cadmium sulphide terrestrial solar batteries 06 p0052 A75-24224 Purther progress in the technology of silk screened CdS solar cells 06 p0052 A75-24225 Development of very low cost solar cells for terrestrial power generation 06 p0052 A75-24225 Solar cells for power generation on communication satellites
BIOMASS EMERGY PRODUCTION Energy from agriculture biomass energy conversion 8 poly 1 A75-46000 BOILERS Theoretical determination of the temperature in a solar water heater /steady state/ 07 pol 12 A75-31513 Application of rocket engine technology to energy 08 pol 85 A75-45933 Solar thermal subsystem specification study [PB-238005/3] Survey of gas and oil burners for use with BSF/RANH-ORNL potassium boiler [ORNL-HSF-PP-45] Where the boilers are: A survey of electric utility boilers with potential capacity for burning solid waste as fuel [PB-239392/4] Conference proceedings, Steam Power Plant Workshop [PB-239514/3] Solar energy for process steam generation [PB-238109/3] BOROSILICATE GLASS Glass-Si heterojunction solar cells [PB-239282/7] BOUNDARY VALUE PROBLEMS Effect of inhomogeneity of conductivity on end effect in a sectional HBD generator 07 pol 19 A75-36233 BRAYTOM CYCLE Space power application of the all purpose mini-Brayton rotating unit /mini-BRU/ 08 pol 93 A75-46019 BREEDER REACTORS Optimization of fusion power density in the two-energy-component tokamak reactor 07 pol 124 A75-37836	BUBBERS Orides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] 06 p0087 N75-18734 Development of low emission porous plate combustor for automotive gas turbine and Rankine cycle engines air pollution control [PB-240776/5] CC CADHIUM COMPOUNDS Research on cadmium stannate selective optical films for solar energy applications [PB-236208/5] CADMIUM SELEMIDES Efficient CuInse2/CdS solar cells 07 p0119 A75-36274 CADMIUM SULFIDES CdS-Cu2S cells - An outlook for terrestrial applications 06 p0052 A75-24223 Progress in the development of cadmium sulphide terrestrial solar batteries 06 p0052 A75-24224 Purther progress in the technology of silk screened CdS solar cells 06 p0052 A75-24225 Development of very low cost solar cells for terrestrial power generation 06 p0052 A75-24225 Solar cells for power generation on communication satellites 08 p0174 A75-44005 CdS/Cu2S solar cells, their potential and
BIOMASS EMERGY PRODUCTION Energy from agriculture biomass energy conversion 08 p0191 A75-46000 BOILERS Theoretical determination of the temperature in a solar water heater /steady state/ 07 p0112 A75-31513 Application of rocket engine technology to energy 08 p0185 A75-45933 Solar thermal subsystem specification study [PB-238005/3] Survey of gas and oil burners for use with BFF/RRNH-ORNL potassium boiler [ORNL-NSF-EP-45] Where the boilers are: A survey of electric utility boilers with potential capacity for burning solid waste as fuel [PB-239392/4] Conference proceedings, Steam Power Plant Workshop [PB-239392/4] Solar energy for process steam generation [PB-239514/3] Solar energy for process steam generation [PB-239109/3] BOROSILICATE GLASS Glass-Si heterojunction solar cells [PB-239282/7] BOUNDARY VALUE PROBLESS Effect of inhomogeneity of conductivity on end effect in a sectional HHD generator 07 p0119 A75-36233 BRAYTOM CYCLE Space power application of the all purpose mini-Brayton rotating unit /mini-BRD/ 08 p0193 A75-46019 BREEDER REACTORS Optimization of fusion power density in the two-energy-component tokamak reactor 07 p0124 A75-37836 The UP6 Breeder - A solution to the problems of	BURNERS Orides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] 06 p0087 M75-18734 Development of low emission porous plate combustor for automotive gas turbine and Rankine cycle engines air pollution control [PB-240776/5] CCADHIUM COMPOUBDS Research on cadmium stannate selective optical films for solar energy applications [PB-236208/5] 06 p0071 M75-16117 CADMIUM SELEMIDES Efficient CuInse2/CdS solar cells 07 p0119 A75-36274 CADMIUM SULFIDES CdS-Cu2S cells - An outlook for terrestrial applications 06 p0052 A75-24223 Progress in the development of cadmium sulphide terrestrial solar batteries 06 p0052 A75-24224 Purther progress in the technology of silk screened CdS solar cells 06 p0052 A75-24225 Development of very low cost solar cells for terrestrial power generation 06 p0052 A75-24225 Solar cells for power generation on communication satellites 08 p0174 A75-44005 CdS/Cu2S solar cells, their potential and limitations
BIOMASS EMERGY PRODUCTION Energy from agriculture biomass energy conversion 08 p0191 A75-46000 BOILERS Theoretical determination of the temperature in a solar water heater /steady state/ 07 p0112 A75-31513 Application of rocket engine technology to energy 08 p0185 A75-45933 Solar thermal subsystem specification study [PB-238005/3] Survey of gas and oil burners for use with BSF/RANH-ORNL potassium boiler [ORNL-NSF-EP-45] Where the boilers are: A survey of electric utility boilers with potential capacity for burning solid waste as fuel [PB-239392/4] Conference proceedings, Steam Power Plant Workshop [PB-239514/3] Solar energy for process steam generation [PB-239109/3] BOROSILICATE GLASS Glass-Si heterojunction solar cells [PB-239282/7] BOUNDARY VALUE PROBLEMS Effect of inhomogeneity of conductivity on end effect in a sectional HBD generator 07 p0119 A75-36233 BRAYTOM CYCLE Space power application of the all purpose min-Brayton rotating unit /min-BRU/ 08 p0193 A75-46019 BREEDER BRACTORS Optimization of fusion power density in the two-energy-component tokamak reactor 77 p0124 A75-37836 The UP6 Breeder - A solution to the problems of nuclear power	BUBBERS Orides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] 06 p0087 N75-18734 Development of low emission porous plate combustor for automotive gas turbine and Rankine cycle engines air pollution control [PB-240776/5] C CADHIUM COMPOUNDS Research on cadmium stannate selective optical films for solar energy applications [PB-236208/5] CADMIUM SELEMIDES Efficient CuInse2/CdS solar cells 07 p0119 A75-36274 CADMIUM SULFIDES CdS-Cu2S cells - An outlook for terrestrial applications 06 p0052 A75-24223 Progress in the development of cadmium sulphide terrestrial solar batteries 06 p0052 A75-24224 Purther progress in the technology of silk screened CdS solar cells 06 p0052 A75-24225 Development of very low cost solar cells for terrestrial power generation 06 p0052 A75-24225 Solar cells for power generation on communication satellites 08 p0174 A75-44005 CdS/Cu2S solar cells, their potential and limitations 08 p0188 A75-45961 Direct solar energy conversion for large scale
BIOHASS EMERGY PRODUCTION Energy from agriculture biomass energy conversion 80 point A75-46000 BOILERS Theoretical determination of the temperature in a solar water heater /steady state/ 07 point A75-31513 Application of rocket engine technology to energy 08 point A75-45933 Solar thermal subsystem specification study [PB-238005/3] Survey of gas and oil burners for use with MSF/RANN-ORNL potassium boiler [ORNL-NSF-EP-45] Where the boilers are: A survey of electric utility boilers with potential capacity for burning solid waste as fuel [PB-239392/4] Conference proceedings, Steam Power Plant Workshop [PB-239514/3] Solar energy for process steam generation [PB-238109/3] BOROSILICATE GLASS Glass-Si heterojunction solar cells [PB-239282/7] BOUNDARY VALUE PROBLEES Effect of inhomogeneity of conductivity on end effect in a sectional HHD generator 07 pointy A75-36233 BRAYTOB CYCLE Space power application of the all purpose mini-Brayton rotating unit /mini-BRU/ 08 points A75-37836 The UP6 Breeder - A solution to the problems of nuclear power	BURNERS Orides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] Development of low emission porous plate combustor for automotive gas turbine and Rankine cycle engines air pollution control [PB-240776/5] C CADMIUM COMPOUNDS Research on cadmium stannate selective optical films for solar energy applications [PB-236208/5] CADMIUM SELEMIDES Efficient CuInse2/CdS solar cells O7 p0119 A75-36274 CADMIUM SULFIDES CdS-Cu2S cells - An outlook for terrestrial applications 06 p0052 A75-24223 Progress in the development of cadmium sulphide terrestrial solar batteries 06 p0052 A75-24224 Purther progress in the technology of silk screened CdS solar cells 06 p0052 A75-24225 Development of very low cost solar cells for terrestrial power generation 06 p0052 A75-24225 Development of very low cost solar cells for terrestrial power generation 06 p0052 A75-24225 Solar cells for power generation on communication satellites 08 p0174 A75-44005 CdS/Cu2S solar cells, their potential and limitations

Environmental aspects of cadmium sulfide usage in solar energy conversion. Part 1: Toxicological and environmental health considerations, a Proceedings of the Workshop on Needs for Pundamental Research in Catalysis as Related to the Energy Problem [PB-236683/9] 06 p0078 #75-17 bibliography 06 p0078 N75-17006 [PB-238285/1] 06 p0105 N75-20884 CATALYSTS Surface electronic properties and the search for new hydrogen oxidation catalysts CALIBRATING A technique for calibrating photometric curves obtained in solar concentrator tests 08 p0178 A75-44795 08 p0180 A75-45060 Workshop on Pundamental Research in Homogeneous CALIFORNIA catalysis as Related to US Energy Problems [PB-240177/6] 08 p0200 N75-28524 Electricity conservation measures in the commercial sector: The Los Angeles experience CBLL ANODES [R-1592-FEA] 05 p0034 N75-13388 Predicted energy densities for nickel-hydrogen and [N-1592-FEN] US p0034 N75-13388
California energy workshop: Developing a plan of action to meet the energy crisis in California
--- oil recovery, nuclear electric power generation, and offshore energy sources
[PB-237045/0] 06 p0082 N75-17822
Reeting California's energy requirements, 1975 silver-hydrogen cells embodying metallic hydrides for hydrogen storage 05 p0008 A75-10572 Conversion of cellulosic wastes to oil [PB-240839/1] 07 p0161 N75-27572
Converting cellulosic waste to fuel: A literature 07 p0149 ₩75-25297 review [AD-A009400] CALORIMETERS 08 p0211 N75-32596 Method of calibrating a solar power plant with a CEMENTS paraboloidal mirror Industrial energy study of the hydraulic cement 07 p0116 A75-34315 industry [PB-237142/5] 06 p0087 N75-18730 A review of the status of MHD power generation technology including suggestions for a Canadian CRRANTCS Aluminum nitride and silicon mitride for MHD research program high-temperature vehicular gas turbine engines [UTIAS-39] 05 p0035 #75-13641 05 p0011 A75-11362 Conservation in Alberta, 1973 Recuperator development trends for future high temperature gas turbines --- heat exchanger design [ASME PAPER 75-GT-50] 07 p0116 A75-34607 Progress of ISL research on energy conversion in ferroelectric ceramics of the type Pb[ZrLITix]03 [ISL-29/74] 08 p0208 N75-31910 07 p0158 #75-27532 Dielectric power conversion 08 p0189 A75-45979 An investigation of heat-pipe wick characteristics CESIUM ENGINES 05 p0012 A75-12914 Prench activity in electric propulsion 07 p0120 A75-36539 Capillary flow through heat-pipe wicks [AIAA PAPER 75-661] 07 p 07 p0114 A75-32919 CESIUM PLASMA MHD energy conversion systems
[AIAA PAPER 74-1071] 05 p0001 A75-102
Empirical method of designing the current-voltage CARBON DIOXIDE Mineral resources and the environment. Appendito section 3: Report of panel on the implications of mineral production for health 05 p0001 A75-10263 characteristics for the discharge mode of a and the environment [PB-239582/0] thermionic converter 07 p0153 N75-26489 06 p0057 A75-26332 Evaluation of pollution control in fossil fuel conversion processes: Gasification. Section 1: CESIUM VAPOR Collector work function improvements and the CO2 acceptor process
[PB-241141/1] development of low temperature thermionic 08 p0204 N75-29596 converters CARBON DIOXIDE LASERS 08 p0188 A75-45960 Interferometric tuning of a 15-atm CO2 laser Electric power generation system directory from 06 p0058 A75-27518 Conversion of electrical energy into laser laser power [NASA-CASE-NPO-13308-1] 08 p0204 N75-30524 radiation energy in high pressure mixtures of CHANNEL PLOW Recent MHD generator testing at Avco Everett Research Laboratory, Inc [ASME PAPER 74-WA/ENER-7] 05 p0016 A molecular gases 07 p0133 N75-22722 05 p0016 A75-16839 CARBON 12 REON 12 Carbon isotopes in oil-gas geology 07 p0160 N75-27563 Investigation of the optimal MHD-generator characteristics for combinational open-cycle MHD power generators --- using one dimensional channel flow model CARBON 13 RBOW 13 Carbon isotopes in oil-gas geology 07 p0160 N75-27563 07 p0119 A75-36260 CHARCOAL CARBONATES Determination of carbonate minerals of Green River Coal processing by electrofluids [PB-236588/0] formation oil shales, Piceance Creek Basin, 06 p0088 N75-18743 CHEMICAL ANALYSIS Colorado [PB-240669/2] 07 p0159 N75-27554 Laboratory semiautomatic infrared device for CARDIOVASCULAR SISTEM

Development and evaluation of a Stirling-Cycle
energy conversion system
[PB-239086/2] 07 p0136 B75CARGO SHIPS determining the composition of petroleum products in sewage 07 p0125 A75-38648
Report to congress on petrochemicals --- analyzing supply/demand in industry [PB-238064/0] 06 n0007 N75-2000 07 p0136 N75-22918 Puel conservation in ship operations [COM-75-10466/1] 08 p0202 N75-29270 Coal structure and reactivity [TID-26637] 06 p0097 N75-20805 Chemistry of organic sulfur compounds contained in CARROT CYCLE A heat pump powered by natural thermal gradients 05 p0006 A75-10550 petroleums and petroleum products, Volume 7
[TT-70-57759] 07 p0138 H75-23691
The relation of coal characteristics to coal A generalization of the Carnot theorem - The theorem of useful power liquefaction behavior 06 p0057 A75-26448 [PB-239261/1] 07 p0151 N75-25327 CARRIER INJECTION Silicon solar cells for highly concentrated sunlight CHEMICAL COMPOSITION 07 p0120 A75-36363 Waste lubricating oil research. A comparison of bench-test properties of re-refined and wirgin Utilization of hydrogen as an appliance fuel lubricating oils --- materials recovery [PB-238124/2] 06 p0097 E75-20746

08 p0178 A75-44794

SUBJECT INDEX

	•
Dependence of coal liquefaction behavior on coal	Coal gasification - A review of status and
characteristics	technology
[PB-238522/7] 07 p0130 E75-21812	06 p0059 A75-27781
The identification of gamma-valerolactone in waste	Shale from oil shale economically
from an oil-shale in situ retort determination of chemical composition by mass	08 p0168 A75-40182 The utilization of space as a source of energy for
spectroscopy of effluents from crude oil shales	the earth
causing water pollution	08 p0183 A75-45893
[PB-240098/4] 07 p0147 B75-24852	The EPA-Van - A clean energy system for the home
CHEMICAL BURRGY	mobile test station for nonpolluting systems
Closed loop chemical systems for energy	08 p0186 A75-45946
transmission, conversion and storage	Parametric study for a pyrolytic system for
05 p0005 A75-10538	production of fuels from agricultural and
Energy supply in a closed cycle nuclear energy for nonelectrical use	forestry wastes 08 p0187 175-45950
06 p0049 A75-23503	Evaluation of coal conversion processes to provide
Solar tower thermo-chemical energy cycles	clean fuels, part 1 coal conversion to clean
08 p0171 A75-42277	fuels
Chemical to electromagnetic energy conversion	[PB-234202/0] 05 p0025 B75-10600
techniques explosive flux compression	Clean power generation from coal
technology [AD-783901] 05 p0026 M75-10609	[PB-234188/1] 05 p0035 B75-13401 Conference proceedings: Power Generation-Clean
CHEMICAL REGINEERING	Fuels Today
On methods for the large-scale production of	[PB-237661/4] 06 p0087 N75-18735
hydrogen from water	Impact of future use of electric cars in the Los
08 p0176 A75-44773	Angeles region. Volume 1: Executive summary
Analysis of thermochemical water-splitting cycles	and technical report
energy efficiency evaluation 08 p0177 175-44781	[PB-238877/5] 07 p0131 N75-22199 Assessment of the potential of clean fuels and
Applications of fusion power technology to the	energy technology
Chemical industry	[PB-239970/7] 07 p0162 M75-27583
[BML-18815] 05 p0029 N75-11730	CLIMATOLOGY
Data base for the industrial energy study of the	Interaction between the fuel-energy complex and
industrial chemicals group	the environment
[PB-237845/3] 06 p0087 H75-18732 CHEMICAL EXPLOSIONS	07 p0110 A75-29800 Changes in the global energy balance
A practical model law for chemical explosive	atmospheric composition and the effect of air
fracture of oil shale	pollution
06 p0078 N75-17023	[PB-238075/6] 06 p0106 N75-20936
CHEMICAL FUELS	CLOSED CYCLES
Prospects and scientific problems of the	An analysis of hydrogen production via
utilization of methods of direct electric power	closed-cycle schemes thermochemical processings from water
generation from chemical fuels /fuel cells/ 05 p0012 A75-12911	08 p0176 A75-44771
Bethanol as fuel for vehicle engines	Thermochemical hydrogen production research at
06 p0050 A75-23506	Lawrence Livermore Laboratory
Sources and methods for methanol production	08 p0177 A75-44780
08 p0180 A75-44816	Design study for a coal-fueled closed cycle gas
Utilization of plasma exhaust energy for fuel production	turbine system for MIUS applications Modular Integrated Utility System
[COO-3028-7] 05 p0028 H75-11465	08 p0187 A75-45948
CHEMICAL PROPULSION	CLOUD COABB
Propulsion technology needs for advanced space	Determining potential solar power sites in western
transportation systems	hemisphere ocean and land areas based upon
[AIAA PAPER 75-1246] 08 p0182 A75-45656	satellite observations of cloud cover 07 p0118 175-35461
CHEMICAL REACTIONS Efficiencies of electrolytic and thermochemical	COAL
hydrogen production	Evaluation of coal conversion processes to provide
06 p0045 A75-20300	clean fuels, part 1 coal conversion to clean
Recommended research program in geothermal chemistry	fuels
[WASH-1344] 06 p0077 N75-16997	[PB-234202/0] 05 p0025 N75-10600
CHRHICALS Industrial energy study of the Industrial	Evaluation of coal conversion processes to provide clean fuels, part 2
Industrial energy study of the Industrial chemicals group	[PB-234203/8] 05 p0025 N75-10604
[PB-236322/4] 06 p0071 N75-16111	Degasification of the Mary Lee coalbed near Oak
CHROMIUM ALLOYS	Grove, Jefferson County, Alabama, by vertical
Cryogenic properties of Fe-Hn and Fe-Hn-Cr alloys	borehole in advance of mining
[LBL-2764] 06 p0066 H75-15781	[BM-RI-7968] 05 p0028 N75-11462
CIRCUIT BREAKERS An assessment of the applicability of high voltage	Development of a process for producing an ashless, low-sulfur fuel from coal. Volume 2:
AC circuit breakers to inductive energy storage	Laboratory studies. Part 1: Autoclave
08 p0206 N75-31341	experiments
CITIES	[PB-236305/9] 05 p0040 N75-15169
Net radiation and other energy-related maps from	Development of coal fired fluidized-bed boilers
remotely sensed imagery	[PB-235899/2] 06 p0065 N75-15668
07 p0121 A75-36811	Development of coal fired fluidized-bed boilers [PB-235898/4] 06 p0065 N75-15669
CIVIL AVIATION Total energy use for commercial aviation in the US	[PB-235898/4] 06 p0065 N75-15669 Energy conversion from coal utilizing CPU-400
[ORNL-NSF-EP-68] 05 p0023 N75-10039	technology
CLEAR RHERGY	[PB-235817/4] 06 p0068 N75-16093
Coal-gas combustion in industrial gas turbines	Pollution-free electrochemical power generation
[AIAA PAPER 74-1114] 05 p0010 A75-11286	from low grade coal
Progress in coal gasification	[PB-236162/4] 06 p0070 N75-16109 Coal petrography and petrology. A bibliography
05 p0013 175-12993 Tidal power and its integration into the electric	1964 - 1973
System	[PB-236351/3] 06 p0072 N75-16123
05 p0013 A75-12994	Conceptual design of a heat pipe methanator

conversion of synthesis coal gas to methane [LA-5596] 06 p0074 N75-16774

The reserve base of bituminous coal and anthracite for underground mining in the Eastern United Coal processing: Gasification, liquefaction, desulfurization: A bibliography, 1930 - 1974 [TID-3349] 05 p0023 B75-10578 States 06 p0085 B75-18713 Preliminary evaluation of underground coal gasification at Hanna, Wyoming [PB-237815/6] Survey of gas and cil burners for use with MSP/RANN-ORNL potassium boiler [ORNL-NSP-EP-45] 06 p0087 [BM-TPR-82] 05 n0025 N75-10599 06 p0087 N75-18728 Char oil energy development Coal in Alabama [PB-236583/1] [PB-233263/3] 05 p0025 N75-10603 06 p0088 N75-18736 Process environment effects on heat pipes for Fuel and energy consumption in the coal industries fluid-bed gasification of coal [LA-UR-74-984] [PB-237151/6] 06 p0088 N75-18744 05 p0029 N75-12252 Methane in the Pittsburgh coalbed, Washington Bvaluation of coal-gasification technology. Part County, Pennsylvania [PB-237848/7] Pipeline-W quality gas [PB-234036/2] US pools In the gasification of coal: A bibliography 05 p0034 H75-13400 06 p0089 N75-18760 Background information for standards of performance: Coal preparation plants.
2: Summary and test data
[PB-237696/0] 06 p0091 Evaluation of coal-gassification technology. Part 2: Low and intermediate BTU fuel gases [PB-234042/0] 05 p0036 N75-14273 Application study of a nuclear coal solution 06 p0091 N75~18797 Intra industry capability to substitute fuels
[PB-237605/1] 06 p0093 87 06 p0093 875-19814 Coal structure and reactivity gasification process for Oklahoma coal, volume 1 [PB-236156/6] 05 p0037 B75-14279 [TID-26637] 06 p0097 N75-20805
Regional economics: A subset of simulation of the effects of coal-fired power development in the Revised cost estimate for the LLL in situ coal gasification concept [UCRL-51578] 05 p0039 H75-15166
Bureau of Hines energy program, 1973 --- discovery
and production of oil, gas, and fluid fuels
[PB-234682/3] 05 p0040 H75-15172 four corners region 06 p0107 #75-21153 The potential for developing Alaskan coals for clean export fuels, phase 1
[PB-238539/1] 07 p0127 #75-Char oil energy development [PB-234018/0] 07 p0127 N75-21786 . coal combustion and desulfurization in a rotating fluidized bed reactor [PB-234018/0] 05 p0040 875-15173 process for cleaning and removal of sulfur [BNL-19308] 07 p0129 N75-21799 compounds from low Btu gases --- coal gasification [PB-236522/9] 06 p0065 B75-15768 [PB-236522/9] 06 p0065 N7 Hydrogen as a fuel --- analysis of problems involved in generation, transportation, and The direct production of hydrocarbons from coal-steam systems
[PB-239356/9] 07 p0138 N75-23740 pesign optimization in underground coal systems
[PB-239075/5] 07 p0145 N75-24153 utilization [PB-239075/5] [AD-787484] 06 p0066 N75-15818 Prospective regional markets for coal conversion plant products projected to 1980 and 1985.

Volume 1: Market analysis
[PB-236631/8] 06 p0071 M75-10
Low Btu gasification high temperature-low Economic system analysis of coal preconversion technology [PB-239383/3] 07 p0151 #75-25325 methane emission from U.S. Coal mines in 1973, a 06 p0071 N75-16113 survey 07 p0152 N75-25354 [PR-240154/51 temperature H2S removal comparison effect on overall thermal efficiency in a combined cycle [rs-240104/5] U/ p0152 H75-2! Mineral resources and the environment. Appendix to section 3: Report of panel on the implications of mineral production for health and the environment power plant [PB-235780/4] 06 p0072 N75-16125 Prospective regional markets for coal conversion plant products projected to 1980 and 1985.

Volume 2: Current and projected demand, supply and price of energy in the United States [PB-239582/0] 07 p0153 N75-26489 Mineral resources and the environment. Appendix to section 4: Report of panel on demand for fuel and mineral resources [PB-239583/8] [PB-236632/6] 06 p0078 N75-17007 Prospective regional markets for coal conversion 07 p0153 N75-26490 plant products projected to 1980 and 1985. Sulfer in coals [TT-70-57216] [TT-70-57216] 07 p0155 H75-26503 Refractory materials for coal-fueled HHD power Volume 3: Current and projected demand, supply and price of energy in the United States, generation schedules [PB-239607/5] 07 p0157 x75-26524 [PB-236633/4] 06 p0078 N75-17008 analysis of constraints on increased coal Coal refining production [PB-240613/0] [ORNL-TR-2827] 06 p0086 N75-18724 Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification 07 p0157 N75-26525 The influence of the petrology of the Karagandin coals on their methane contents [BLL-RTS-9309] 07 p0158 N75-27511 [PB-237625/9] 06 p0087 Study of potential problems and optimum opportunities in retrofitting industrial 06 p0087 N75-18734 Determine utility of ERTS-1 to detect and monitor area strip mining and reclamation --southeastern Ohic processes to low and intermediate energy gas from coal [PB-237116/9] [E75-10327] 07 p0158 N75-27515 Low-BTU gasification of coal for electric power generation COAL GASIFICATION Coal-gas combustion in industrial gas turbines
[Alah PAPER 74-1114] 05 p0010 A75-11286
Progress in coal gasification [PB-236972/6] 06 p0088 #75-18740 05 p0013 A75-12993 Coal gasification by Atomics International's Coal processing by electrofluids [PB-236588/0] 06 p0088 N75-18743 Rockgas process
[ASME PAPER 74-WA/PWR-11] 05 p0018 A75-16883
The production of gaseous energy carriers from Advanced coal gasification system for electric power generation [PB-236971/8] 06 p0089 N75-18747 Practure-induced permeability: Present situation and prospects for coal [UCID-16593] 06 p0094 N75-198 fossil fuels 06 p0049 A75-23502 Bydrogen as energy carrier in industry and household 06 p0049 A75-23505 Application of thermodynamic and material and 06 p0094 N75-19830 A SASOL type process for gasoline, methanol, SNG, and low-Btu gas from coal energy-balance calculations to gasification [PB-237670/5] 06 p0095 475-19838 Evaluation of pollution control in fossil fuel conversion processess. Gasification, section 1: Synthane process [PB-237113/6] 06 p0095 N75-198 06 p0055 A75-24785 Coal gasification - A review of status and technology 06 p0095 N75-19879 06 p0059 A75-27781 The economics of coal-based synthetic gas

08 p0168 A75-39925

SUBJECT INDEX COLORADO

Evaluation of pollution control in fossil fuel Development of a process for producing an ashless, low-sulfur fuel from coal. Volume 4. Pr studies. Part 5. Developmental and rate studies in processing of coal minerals Product conversion processes: Gasification. Section 1: Lurgi process 06 p0096 N75-19880 06 p0095 N75-19842 Methodical approach to temperature and pressure [PB-237766/1] Dependence of coal liquefaction behavior on coal characteristics measurements for in situ energy-recovery processes [UCID-16631] 06 p0097 N75-20693 [PB-238522/7] Acoustic array methods for instrumentation of in 07 p0130 N75-21812 situ coal gasification [UCID-16591] Large diameter 300 PSI gasifier. engineering report. Volume 1: [PB-238360/2] Solvent refined coal studies [PB-238532/6] 07 p0134 N75-22897 06 p0104 N75-20875 Low-temperature evolution of hydrocarbon gases Preliminary Description from coal 07 p0139 N75-24074 06 p0105 N75-20889 [PB-238322/2] Demonstration plant, clean boiler fuels from coal.
Volume 3: Preliminary design/economics analysis Liquid plugging in in situ coal gasification processes [PB-238529/2] [UCRL-51686] 07 p0127 N75-21480 07 p0142 N75-24127 Technology and use of lignite
[PB-238666/2] 07 p0142 N75-24131
Symposium proceedings: Environmental Aspects of Methyl alcohol production by in situ coal gasification [UCID-51600] 07 p0128 N75-21797 Technical evaluation services, clean liquid and/or Puel Conversion Technology [PB-238304/0] 07 p0145 N75-24179
Preparation of gas turbine engine fuel from
synthetic crude oil derived from coal [PB-238304/0] solid fuels from coal [PB-237216/7] 07 p0129 N75-21803 Low-temperature evolution of hydrocarbon gases [AD-A007923] 07 p0147 N75-24966 The relation of coal characteristics to coal from coal [PB-238322/2] 07 p0139 N75-24074 Hydrogen production from coal [NASA-CR-142816] liquefaction behavior [PB-239261/1] 07 p0151 N75-25327 07 p0141 N75-24113 Demonstration plant, clean boiler fuels from coal. Evaluation of pollution control in fossil fuel Volume 3: Preliminary design/economics analysis conversion processes. Liquefaction, section 1: [PB-238529/2] Technology and use of lignite [PB-238666/2] 07 p0142 N75-24127 COED process [PB-240371/5] 07 p0162 N75-27626 Evaluation of pollution control in fossil fuel conversion processes. Liquefaction: Section 2. 07 p0142 N75-24131 Symposium proceedings: Environmental Aspects of SRC process [PB-241792/1] Fuel Conversion Technology [PB-238304/0] 07 p0145 N75-24
Hass spectrometric analysis of product water from 07 p0145 N75-24179 08 p0212 N75-32627 COAL UTILIZATION coal gasification
[PB-240835/9] 07 p0158 N75-2
Technological feasibility of alternative energy
sources --- a discussion of coal gasification, Small coal burning gas turbine for modular integrated utility systems 07 p0158 N75-27120 05 p0006 A75-10546
The MHD power generation system with directly fired coal geothermal energy, and shale oil 08 p0199 N75-28522 05 p0009 A75-10577 [AD-A005549] Evaluation of pollution control in fossil fuel conversion processes: Gasification. Section 1: The economics of coal-based synthetic gas 08 p0 168 A75-39925 Design study for a coal-fueled closed cycle gas turbine system for MIUS applications --- Hodular Integrated Utility System CO2 acceptor process 08 p0204 N75-29596 FPB-241141/1 Evaluation of fixed bed, low BTU coal gasification systems for retrofitting power plants 08 p0187 A75-45948 [PB-241672/5] 08 p0211 N75-32602 Conceptual design and economics of an MHD pilot COAL LIQUEFACTION LIQUEFACTION

Nal processing: Gasification, liquefaction,
desulfurization: A bibliography, 1930 - 1974

TID-3349 | 05 p0023 N75-10578 08 p0189 A75-45974 The National Coal Conversion Act and the National Coal processing: Crude Oil Refinery Development Act [GPO-28-964] 05 Evaluation of coal-gassification technology. Part
2: Low and intermediate BTU fuel gases
[PB-234042/0] 05 p0036 N75-14273 05 p0027 N75-10861 Clean power generation from coal [PB-234188/1] 05 p0035 N75-13401 Energy conversion from coal utilizing CPU-400 Development of a process for producing an ashless, low-sulfur fuel from coal. Volume 2: Laboratory studies. Part 1: Autoclave technology [PB-237028/6] 06 p0083 N75-17828 Coal refining experiments [ORNL-TR-2827] Sulfer in coals [TT-70-57216] 06 p0086 N75-18724 [PB-236305/9 05 p0040 N75~15169 Synthetic oil from coal [PB-234460/4] 05 p0040 N75-15176 07 p0155 N75-26503 Pressurized fluidized bed combustion In situ combustion of coal for energy [PB-235591/5] 06 p0065 N75-15772 [PB-241892/9] 08 p0211 N75-32603 Prospective regional markets for coal conversion COASTAL WATER plant products projected to 1980 and 1985. Technical and economic feasibility of the ocean thermal differences process as a solar-driven Volume 1: Market analysis
[PB-236631/8]
O6 p0071 N75-16113
Use of methanol in transportation --- coal energy process [PB-236422/2] 06 p0077 N75-17003 liquefaction methods COATINGS [UCID-16528] 06 p0077 N75-16996 Solar selective surfaces made of semiconducting Coal refining powders [ASME PAPER 74-WA/HT-13] 05 p0017 A75-16857 [ORNL-TR-2827] 06 p0086 N75-18724 Development of a process for producing an ashless low sulfur fuel from coal. Volume 4. Product studies. Part 2. Annotated bibliography on mineral fiber production from coal minerals Methodology of research of flat-plate solar collector absorptive coatings 07 p0117 A75-34935 COAXIAL PLOW Energy characteristics of coaxial [AD-787419] [PB-237763/8] 06 p0095 N75-19839 plasma source 06 p0073 B75-16368 Development of a process for producing an ashless, low-sulfur fuel from coal. Volume 4. Product studies. Part 3 Products from coal minerals Bconomic impact of the oil shale industry in [PB-237764/6] western Colorado [GPO-28-608] 06 p0095 N75-19840 05 p0024 N75-10588 Development of a process for producing an ashless, low-sulfur fuel from coal. Volume 4. Product studies. Part 4. Sulfur removal from coal Primary data on economic activity and water use in prototype oil shale development areas of Colorado: An initial inquiry minerals 05 p0037 N75-14277 [PB-236039/4] f PB-237765/31 06 p0095 N75-19841

Determination of carbonate minerals of formation oil shales, Piceance Cree		Future hydrogen fueled commercial [SAZ PAPER 750615]	08 p0169 A75-40521
Colorado [PB-240669/2] 07	p0159 N75-27554	Liquid hydrogen as a fuel for fut aircraft	re commercial
Development of coal fired fluidized-b		Puel conservation capability and	08 p0178 A75-44792 effort by
[PB-235898/4] 06 Energy conversion. 1: Non-propulsiv fuels and pyrotechnics		commercial air carriers [NASA-CR-137624] OMMERCIAL EMERGY	05 p0039 #75-15157
	p0079 N75-17454	Bydrogen as energy carrier in ind	stry and household 06 p0049 A75-23505
featuring gas combustion retorting	p0093 ¥75-19813	Methane gas engines for commercia: busses	
COMBUSTION CHAMBERS Recent MRD generator testing at Avco	Everett	Will superconducting magnetic energy	
Research Laboratory, Inc [ASME PAPER 74-WA/EMER-7] 05 Possible development of acoustical in	p0016 A75-16839 stability in	used on electric utility systems Hydrogen sponge heat pump carr	06 p0056 A75-25832
a system consisting of a combustion a subsonic MHD generator	chamber and	on lanthanum pentanickel	08 p0194 A75-46035
Survey of gas and oil burners for use	p0045 A75-19959 with	Energy use in the commercial and is sectors of the US economy, 1963	
NSF/RANN-ORNL potassium boiler [ORNL-NSF-BP-45] 06 COMBUSTION RPPICIENCY	p0087 N75-18728 CO	[PB-235487/6] DHHUHICATION EQUIPHENT Airborne windmills - Energy source	06 p0070 N75-16104
Feasibility demonstration of a road v with hydrogen-enriched gasoline		communication aerostats [AINA PAPER 75-923]	08 p0165 A75-38868
Use of low grade solid fuels in gas t	urbines	OHHUNICATION SATELLITES A design parameter for assessing was a second of the second o	ricking
Recuperator development trends for fu	p0016 A75-16837 ture high xchanger design	capabilities of heat pipes [AIAA PAPER 74-1266] Latest developments of the circula	05 p0010 A75-11107
temperature gas turbines heat e [ASME PAPER 75-GT-50] 07 Experience in the first step of the m	p0116 A75-34607 astery of the	with deployment structure for antenna communication satellite	r central
U-25 device 06 : COMBUSTION PHYSICS	p0081 ¥75-17793	Development of a flexible, fold-or power to weight ratio for co	06 p0053 A75-24246 t solar array mmunication
Combustion dynamics research for 'Pro Independence'	_	satellites	06 p0053 A75-24252
[AIAA PAPER 74-1069] 05 j Combustion R&D - Key to our energy fur pollution reduction using hydrocarb		Solar cells for power generation of satellites	n communication 08 p0174 A75-44005
05 Pressurised fluidized bed combustion	p0009 A75-10596	A comparison of the COMSAT violet non-reflective cells	and
	p0065 N75-15769	Economic radioisotope thermoelectr	08 p0192 A75-46015 ic generator
Impact of future fuels on military ae 06 Summary report of Workshop on Energy	p0075 N75-16981	study program [IESD-3112-1] Economic radioisotope thermoelectr	05 p0036 N75-14269
Combustion Research [PB-236714/2] 06 j	p0079 N75-17456	study program: Appendices. [IESD-3112-2]	05 p0036 N75-14270
COMBUSTION PRODUCTS The MHD power generation system with of the standard standard system.	directly	SENSE 2: Space applications of nu Volume 1: Commercial communicat [AEC-SNS-3063-3-VOL-1]	ions satellite
fired coal 05 Calculation of the electrical conduct:	p0009 A75-10577 ivity of the	Solar generator and power systems communication satellites	06 p0065 N75-15742 for
combustion products of the working a open-cycle MBD generator	medium in an		08 p0206 N75-31165
Compilation of air pollutant emission second edition, supplement no. 3		Design and qualification of the CT blanket onboard Canadian Com Technology Satellite	
combustion and consumption [PB-235736/6] 06 g	p0073 N75-16152 CO	BPATIBILITY	06 p0053 A75-24248
Impact of future fuels on military aer 06 p COMETS	co-engines p0075 N75-16981	Strontium fluoride research in hea compatibility tests waste ut [BNWL-1845-2]	
Solar electric propulsion spacecraft p subsystem for an Encke comet rendeze		MPONENT RELIABILITY The effect of sunshine testing on	_
CONNERCE	00002 A75-10481		07 p0123 A75-37396
Elimination of duty on methanol import certain uses [H-REPT-93-998] 05 g	00026 N75-10857	The effect of sunshine testing on solar cell system components [NASA-TH-I-71722]	07 p0140 N75-24109
Technology application at Rockwell Int 06 p	cernational COM 00078 N75-17189	MPOSITE MATERIALS Metals and composites in superflyw	-
Commerce today, volume 5, number 10 discussion of international trade, e and energy conservation	economics,	storage systems Low thermal flux glass-fiber/metal	06 p0047 A75-22523 vessels for LH2
[COM-74-50944/10] OT g	00152 175-25775	storage systems	08 p0177 A75-44783
The use of hydrogen in commercial airc assessment	craft - An 0006 A75-10542	Study of the costs and benefits of materials in advanced turbofan e [NASA-CR-134696]	
Wext generation transports will emphas savings		Plywheel energy systems	07 p0129 k75-21802
05 p Advanced subsonic transports - A chall		BPOSITIOF (PROPERTY) The influence of the petrology of t	
1990's [AIAA PAPER 75-304] 06 p	0049 A75-23251	coals on their methane contents [BLL-RTS-9309]	7 p0158 175-27511

SUBJECT INDEX COMPERENCES

COMPRESSED AIR	Urban waste energy resources
Energy storage undergound hydroelectric pumped-storage and combustion turbine facilities	[AIAA PAPER 75-632] 06 p0062 A75-28598 Bodeling of the CSU heating/cooling system
05 p0013 A75-12989 Pumped air storage for electric power generation 05 p0013 A75-12990	Colorado State University solar house computer simulation 07 p0:09 A75-29473
COMPRESSED GAS Prospects for using dynamic thermocompression	A method of simulation of solar processes and its application energy collection processes
converter in solar power plants 05 p0020 175-17076	07 p0109 A75-29474 Numerical modeling of flat plate solar collectors
A technology assessment of the hydrogen economy concept	[AIAA PAPER 75-739] 07 p0113 A75-32861 Hodeling and computer simulation of a
COMPRESSION LOADS	microwave-to-dc energy conversion element 07 p0120 A75-36500
Mechanical properties of oil shale from Anvil Point under conditions of uniaxial compression	Technical and economic evaluation of solar heating and cooling of buildings
[SAND-74-0035] 06 p0092 H75-19390 COMPRESSION TESTS	08 p0184 A75-45921 Solar heat pump comfort heating systems
Hechanical properties of oil shale from Anvil Point under conditions of unlaxial compression	08 p0185 A75-45936 New dimensions in water heating in the Northwest -
[SAND-74-0035] 06 p0092 N75-19390 COMPRESSOR EPPICIENCY	A study of solar energy utilization computer model
A compressor designed for the energy research and	08 p0191 A75-45995
development agency automotive gas turbine program [NASA-TH-X-71719] 07 p0141 B75-24116	The design and development of an interactive energy model
COMPUTER PROGRAMMING The NBS computerized carpool matching system:	[PB-236144/2] 06 p0070 N75-16110 Blectronic model of the U-25 device
Oser's guide	06 p0081 #75-17794
[COM-75-10691/4] 08 p0214 N75-33749 COMPUTER PROGRAMS	Profitability analysis of producing crude oil by waterflooding using a simulation technique
The Energy Systems Optimization Computer Program	[PB-237843/8] 06 p0088 N75-18738 Using systems methods for analysing integrated
/ESOP/ developed for Modular Integrated Utility Systems /MIUS/ analysis	energy supply, summary
05 p0006 A75-10551 Effect of attitude constraints on solar-electric	[BLL-CE-TRANS-6473-(9022.09)] 07 p0153 B75-26491 Increased fuel economy in transportation systems
geocentric transfers	by use of energy management. Volume 1: General
[AIAA PAPER 75-350] 06 p0055 A75-24957 The effect of atmospheric turbulence on windmill	results and discussion [PB-240220/4] 07 p0163 N75-27970
performance 08 p0174 A75-44756	COMSAT PROGRAM The COMSAT non-reflective silicon solar cell - A
A computer program to determine the optimum	second generation improved cell
configuration of solar assisted building heating and cooling systems based upon life-cycle cost	CONDRISERS (LIQUIPIERS) 06 p0053 A75-24245
08 p0186 A75-45941 Comparison of computer programs used for modeling	Transverse header heat pipe [AIAA PAPER 75-656] 07 p0114 A75-32914
solar heating and air conditioning systems for	CONDUCTING PLUIDS
buildings [LBL-3066] 06 p0079 N75-17279	Theoretical study of the energy output of two magnetohydrodynamic generators
Path to self-sufficiency directions and constraints, appendices a computer program	07 p0125 A75-38568 Studies on improvement of the characteristics of
that calculates energy resource requirements	MHD power generating channel conducting fluids
[PB-239100/1] 07 p0145 B75-24155 COMPUTER TECHNIQUES	[REPT-749] 07 p0148 N75-25293 CONDUCTION
The role of computers in future propulsion controls 07 p0137 N75-23582	Solar energy absorber [NASA-CASE-MPS-22743-1] 05 p0024 N75-10585
National Bureau of Standards annual report:	CONDUCTIVE HEAT TRANSPER
Fiscal year 1974 including a discussion of measuring instruments, energy, safety	Solar radiation heat transfer to high temperature heat carriers
engineering, and computers [COM-75-10465/3] 08 p0206 M75-30948	[ASME PAPER 74-WA/HT-14] 05 p0017 A75-16861 Utilization of tubular thermoelectric modules in
COMPUTERIZED DESIGN	solar generators
A planning methodology for the analysis and design of wind-power systems	05 p0020 A75-17067 Heat pipe thermal control set point shift
05 p0004 A75-10517 Solar augmented home heating heat pump system	07 p0115 A75-33271 COMPERRNCES
05 p0004 A75-10524	Intersociety Energy Conversion Engineering
Design study of the energy characteristics of thermionic electric power generating components	Conference, 9th, San Francisco, Calif., August 26-30, 1974, Proceedings
and assemblies 06 p0064 A75-28893	05 p0001 A75-10476 Energy development; Proceedings of the Energy
Design of energy storage reactors for dc-to-dc converters	Sources Conference, Anaheim, Calif., July 14-19, 1974
[NASA-CR-143327] 08 p0204 H75-30438	05 p0012 A75-12986
COMPUTERIZED SIMULATION A wind energy conversion system based on the	Nonconventional energy systems; Meeting, Duesseldorf, West Germany, June 20, 21, 1974,
tracked-vehicle airfoil concept 05 p0004 A75-10518	Reports 06 p0049 A75-23501
Coal-gas combustion in industrial gas turbines	Photovoltaic power generation; Proceedings of the International Conference, Hamburg, West Germany,
[AIAA PAPER 74-1114] 05 p0010 A75-11286 Dynamic simulation for performance analysis of	September 25-27, 1974
solar heated and cooled buildings [ASME PAPER 74-WA/SOL-8] 05 p0019 A75-16891	06 p0051 A75-24213 Corrosion problems in energy conversion and
Simulation of a solar heating and cooling system	generation; Proceedings of the Symposium, New York, N.Y., October 15-17, 1974
06 p0048 A75-23018	06 p0054 A75-24376
SIMSHAC - A simulation program for solar heating and cooling of buildings	Energy Delta: Supply vs. demand; Proceedings of the Energy Symposium, San Francisco, Calif.,
06 p0061 A75-28093	Pebruary 25-27, 1974

06 p0059 A75-27778

CONGRESSIONAL REPORTS SUBJECT INDEX

Remote sensing applied to energy-related problems;	Independent truckers and the energy crisis
Proceedings of the Symposium-Course, Miami,	[GPO-31-412] 05 p0023 #75-10581
Pla., December 2-4, 1974	Economic impact of the oil shale industry in
07 p0118 A75-35451	western Colorado
Energy - Engineering - Environment; Proceedings of	[GPO-28-608] 05 p0024 N75-10588
the Seventh Annual Prontiers of Power Technology	Advanced nuclear research
Conference, Stillwater, Okla., October 9, 10, 1974	[GPO-41-253] 05 p0026 N75-10764
08 p0168 A75-40176	Effects of energy crisis on education, 1974
Hydrogen energy fundamentals; Proceedings of the	[GPO-27-765] 05 p0026 #75-10850
Symposium-Course, Miami Beach, Fla., March 3-5,	Blimination of duty on methanol imported for
1975	certain uses [H-REPT-93-998] 05 p0026 #75-10857
08 p0171 A75-42276 Cryogenic Engineering Conference, Georgia	[H-REPT-93-998] 05 p0026 #75-10857 Public works for water and power development and
Institute of Technology, Atlanta, Ga., August	Atomic Energy Commission Appropriation Bill,
8-10, 1973, Proceedings	1975. Part 6: Tennessee Valley Authority
08 p0173 A75~43976	[GPO-32-403] 05 p0026 N75-10859
Plasma physics and controlled nuclear fusion	National Crude Oil Refinery Development Act, part 2
research 1974; Proceedings of the Fifth	[GPO-35-578] 05 p0027 N75-10860
International Conference, Tokyo, Japan, November	The National Coal Conversion Act and the National
11-15, 1974. Volumes 1 & 2	Crude Oil Refinery Development Act
08 p0174 A75-44736	[GPO-28-964] 05 p0027 N75-10861
Hydrogen energy; Proceedings of the Hydrogen	Oil shale development, part 2
Economy Miami Energy Conference, Miami Beach,	[GPO~30-368] 05 p0027 N75-11455
Pla., March 18-20, 1974. Parts & 8 B	Bioconversion of solar energy and solid waste
08 p0174 A75-44751	energy into useable fuels
Energy 10: Annual Intersociety Energy Conversion	[GPO-37-403] 05 p0028 N75-11463
and Engineering Conference, 10th, University of Delaware, Newark, Del., August 18-22, 1975, Record	Solar sea thermal energy [GPO-37-476] 05 p0030 N75-12430
08 p0183 \$75-45920	Energy and environmental standards
Basic research needs for tertiary oil recovery:	environmental standards and energy policy
Proceedings of a National Science Foundation	[GPO-37-171] 05 p0030 B75-12431
Workshop	Solar photovoltaic energy
[PB-236726/6] 06 p0066 B75-16072	[GPO-39-576] 05 p0032 #75-13379
Proceedings of the Solar Heating and Cooling for	Wind energy
Buildings Workshop. Part 2: Panel sessions,	[GPO-37-390] 05 p0033 N75-13387
Barch 23	Conservation and efficient use of energy
[PB-235483/5] 06 p0069 N75-16095	[H-REPT-93-1634] 05 p0036 H75-14265
Proceedings of the Workshop on Bio-Solar Conversion	Development, growth, and state of the nuclear
[PB-236142/6] 06 p0069 N75-16096 Photovoltaic conversion of solar energy for	industry [GPO-33-873] 05 p0038 N75-15150
Terrestrial Applications. Volume 1: Working	The prospects for gasoline availability: 1974
group and panel reports	[GPO-34-969] 05 p0039 N75-15155
[PB-236163/2] 06 p0072 N75-16121	Oversight: Mandatory petroleum allocation
The 1974 AGARD Annual Beeting: The energy	programs, part 1
problem: Impacts on military research and	[GPO-30-060] 05 p0039 N75-15158
development	Oversight: Mandatory petroleum allocation
06 p0075 N75-16977	programs, part 2
Proceedings of the first 1974 Technology Transfer	[GPO-31-519] 05 p0039 N75-15159
Conference [NASA-CR-142119] 06 p0078 N75-17188	Prototype oil shale leasing program [GPO-28-686] 05 p0039 N75-15160
[NASA-CR-142119] 06 p0078 N75-17188 Utilizing fuel more efficiently in reheating and	An assessment and analysis of the energy emergency
heat treatment furnaces	[GPO-25-382] 06 p0066 H75-16076
[BLL-H-21957-(58 28.4F)] 06 p0080 N75-17467	Market performance and competition in the
Workshop in Gas-Phase Molecular Interactions and	petroleum industry, part 1
the Nation's Energy Problem	[GPO-28-503] 06 p0066 N75-16077
[PB-236712/6] 06 p0086 #75-18718	Puel availability and allocation in the United
Proceedings of the Conference on Research for the	States
Development of Geothermal Energy Resources	[GPO-31-711] 06 p0067 B75-16081
[NASA-CR-142556] 06 p0098 N75-20831	Energy from US and Canadian tar sands: Technical,
Electric power for space satellites	environmental, economic, legislative, and policy
[NASA-TM-X-66808] 07 p0137 N75-23678 Technology and use of lignite	aspects [GPO-43-005] 06 p0067 N75-16083
[PB-238666/2] 07 p0142 H75-24131	Transportation and the new energy policies: Truck
Proceedings of 5th annual symposium: Energy	sizes and weights, part 2
Research and Development solar energy,	[GPO-29-802] 06 p0073 N75-16410
windpower utilization, thermonuclear power	Development of oil and gas on the Continental Shelf
generation	[GPO-31-891] 06 p0075 N75-16973
[AD-A007799] 07 p0144 H75-24142	Synthetic Liquid Fuel Research and Development Act
Proceedings of the Solar Thermal Conversion Workshop	of 1974 energy conservation and cost analyses
[PB-239277/7] 07 p0145 B75-24157	[GPO-44-818] 06 p0103 875-20867
Marine pollution monitoring (petroleum):	Solar energy research and development [GPO-40-684] 07 p0139 N75-24104
Proceedings of a Symposium and Workshop held at the Wational Bureau of Standards	[GPO-40-684] 07 p0139 N75-24104 Energy imports and the OS balance of payments
[COM-75-50071/0] 07 p0146 N75-24183	[GPO-28-965] 07 p0141 N75-24114
Workshop on Fundamental Research in Homogeneous	The economics of energy and natural resource pricing
catalysis as Related to US Energy Problems	[GPO-48-071] 07 p0141 #75-24115
[PB-240177/6] 08 p0200 B75-28524	Energy Reorganization Act of 1974 the Energy
Proceedings of a Wcrkshop on Solar Energy and the	Research and Development Administration and
Law	Nuclear Energy Commission
[PB-241051/2] 08 p0201 N75-28551	[S-REPT-93-1252] 07 p0142 N75-24123
Seminar on Industrial Energy Conservation and Seminar on Solar Space Heating and Cooling	Energy Reorganization Act of 1974 [S-REPT-93-980] 07 p0142 b75-24124
[PB-241462/1] 08 p0212 N75-33498	[S-REPT-93-980] 07 p0142 B75-24124 Energy and foreign policy
CONGRESSIONAL REPORTS	[GPO-22-562] 07 p0142 H75-24125
Limit lead in gasoline	World oil developments and US oil import policies
[GPO-29-660] 05 p0023 N75-10259	
	[GPO-22-893] 07 p0148 #75-25294
Research, development, and the energy crisis	
Research, development, and the energy crisis [GPO-27-032] 05 p0023 H75-10580	[GPO-22-893] 07 p0148 N75-25294

SUBJECT INDEX CONVERGENCE

Energy/policy and resource management	OCS oil and gas: An environmental assessment,
[GPO-33-634] 07 p0149 N75-25300	volume 5
Energy legislation energy conservation and	06 p0084 B75-17840
resources management	Relationships between bidding and hydrocarbon
[GPO-33-571] 07 p0 149 H75-25301	production of the Federal Outer Continental
Current energy shortages oversight series: Oil	Shelf (through 1970) offshore energy sources
brokers, part 7	[PB-238188/7] 07 p0127 H75-21788
[GPO-32-607] 07 p0161 N75-27576	Atlantic outer continental shelf energy resources:
Natural Gas Act, 1 Harch 1974	An economic analysis
08 p0204 H75-30646	[COM-75-10330/9] 07 p0152 N75-26484
Oil and gas development and coastal zone management	Oil and gas development and coastal zone management
[GPO-37-347] 08 p0206 N75-31556	[GPO-37-347] 08 p0206 N75-31556
Energy data requirements of the Federal	Outer continental shelf oil and gas leasing off
Government. Part 4: Propane and crude oil:	
conflicts of interest	southern California: Analysis of issues [GPO-41-659] 08 p0209 N75-31958
	Outer continental shelf oil and gas development and the coastal zone
Solar Energy Research, Development, and	
Demonstration Act of 1974	[GPO-39-356] 08 p0209 #75-31959
[GPO-39-827] 08 p0207 N75-31567	CONTOURS
Effects of the energy crisis on employment	Statistical estimation of wildcat well outcome
dislocation, 1974	probabilities by visual analysis of structure
[GPO-35-761] . 08 p0208 H75-31918	contour maps of Stafford County, Kansas
Providing for a national fuels and energy	06 p0092 N75-19778
conservation policy, establishing an office of	CONTROLLED PUSION
energy conservation in the Department of the	Pusion reactors as future energy sources
Interior, and for other purposes	05 p0011 A75-11735
[H-REPT-93-1546] 08 p0208 H75-31953	Pusion power research - Where do we stand
The need for a national materials policy, part 1	05 p0013 A75-12995
[GPO-39-885] . 08 p0209 N75-31954	Pusion power - Prospects and impact
The need for a national materials policy, part 2	05 p0021 A75-18080
[GPO-40-687] Ö8 p0209 N75-31955	An electron beam initiated fusion neutron generator
The need for a national materials policy, part 3	06 p0045 A75-19657
[GPO-40-687] 08 p0209 N75-31956	Laser compression of matter - Optical power and
Special Energy Research and Development	energy requirements
Appropriation Act, 1975	06 p0046 A75-22352
[PUB-LAW-93-322] 08 p0209 N75-31957	Laser thermonuclear fusion
Outer continental shelf oil and gas leasing off	07 p0112 A75-32617
southern California: Analysis of issues	Electronbeam heating for fusion
[GPO-41-659] 08 p0209 m75-31958	07 p0120 A75-36295
Outer continental shelf oil and gas development	Lasers for fusion
and the coastal zone	08 p0166 A75-39333
	Pusion power by magnetic confinement - Plans and
[GPO-39-356] . 08 p0209 N75-31959 To establish an Energy Research and Development	
Administration and a Nuclear Energy Commission	the associated need for nuclear engineers
	08 p0170 A75-41433
	Cryogenic engineering and fusion power
Science and Technology Applications Act of 1974	superconducting magnet application to reactor
energy sources and environment protection	design
[GPO-41-407] 08 p0209 H75-31961	08 p0173 A75-43979
Energy statistics	Plasma physics and controlled nuclear fusion
[GPO-37-143] 08 p0210 N75-32587	research 1974; Proceedings of the Pifth
Solar Heating and Cooling Demonstration Act of	International Conference, Tokyo, Japan, November
1974: Oversight hearings	11-15, 1974. Volumes 1 & 2
[GPO-55-414] 08 p0212 H75-33495	08 p0174 A75-44736
CONSERVATION	The technology and economies of hydrogen
Caltech seminar series on energy consumption in	production from fusion reactors
private transportation	08 p0176 A75-44767
[PB-235348/0] 05 p0040 H75-15179	Ion-beam implosion of fusion targets
Bineral resources and the environment. Appendix	08 p0181 A75-45386
to section 1: Report of panel on materials	Terrestrial and space applications of the migma
conservation through technology	controlled fusion concept
[PB-239580/4] 07 p0153 N75-26487	controlled fusion concept [AIAA PAPER 75-1263] 08 p0182 A75-45663
[PB-239580/4] 07 p0153 N75-26487 CONSTRUCTION	controlled fusion concept [AIAA PAPER 75-1263] 08 p0182 A75-45663 Thermal power conversion systems for fusion plants
[PB-239580/4] 07 p0153 M75-26487 COMSTRUCTION Erecting gas storage facilities and oil centers	controlled fusion concept (AIAA PAPER 75-1263] 08 p0182 A75-45663 Thermal power conversion systems for fusion plants 08 p0187 A75-45953
[PB-239580/4] 07 p0153 H75-26487 CONSTRUCTION Brecting gas storage facilities and oil centers [AD-A006559] 07 p0134 H75-22783	controlled fusion concept [AIAA PAPER 75-1263] 08 p0182 A75-45663 Thermal power conversion systems for fusion plants 08 p0187 A75-45953 New approaches to CTR: General relativistic power
[PB-239580/4] 07 p0153 H75-26487 CONSTRUCTION Erecting gas storage facilities and oil centers [AD-A006559] 07 p0134 H75-22783 CONSTRUCTION HATERIALS	controlled fusion concept [AIAA PAPER 75-1263] 08 p0182 A75-45663 Thermal power conversion systems for fusion plants 08 p0187 A75-45953 New approaches to CTR: General relativistic power plants
[PB-239580/4] 07 p0153 H75-26487 CONSTRUCTION Brecting gas storage facilities and oil centers [AD-A006559] 07 p0134 H75-22783	controlled fusion concept [AIAA PAPER 75-1263] 08 p0182 A75-45663 Thermal power conversion systems for fusion plants 08 p0187 A75-45953 New approaches to CTR: General relativistic power
[PB-239580/4] 07 p0153 H75-26487 CONSTRUCTION Erecting gas storage facilities and oil centers [AD-A006559] 07 p0134 H75-22783 CONSTRUCTION HATERIALS	controlled fusion concept [AIAA PAPER 75-1263] 08 p0182 A75-45663 Thermal power conversion systems for fusion plants 08 p0187 A75-45953 New approaches to CTR: General relativistic power plants
[PB-239580/4] 07 p0153 H75-26487 CONSTRUCTION Erecting gas storage facilities and oil centers [AD-A006559] 07 p0134 H75-22783 CONSTRUCTION HATERIALS Betals and composites in superflywheel energy storage systems 06 p0047 A75-22523	controlled fusion concept [AIAA PAPER 75-1263] 08 p0182 A75-45663 Thermal power conversion systems for fusion plants 08 p0187 A75-45953 New approaches to CTR: General relativistic power plants [UCRL-75443] 06 p0073 N75-16362
[PB-239580/4] 07 p0153 M75-26487 COBSTRUCTION Brecting gas storage facilities and oil centers [AD-A006559] 07 p0134 M75-22783 COBSTRUCTION HATERIALS Betals and composites in superflywheel energy storage systems 06 p0047 A75-22523 COMTINENTAL SHELVES	controlled fusion concept [AIAA PAPER 75-1263] 08 p0182 A75-45663 Thermal power conversion systems for fusion plants 08 p0187 A75-45953 New approaches to CTR: General relativistic power plants [UCRL-75443] 06 p0073 N75-16362 Han-made sun. Thermonuclear engineering
[PB-239580/4] 07 p0153 H75-26487 COBSTRUCTION Brecting gas storage facilities and oil centers [AD-A006559] 07 p0134 H75-22783 COBSTRUCTION HATERIALS Betals and composites in superflywheel energy storage systems 06 p0047 A75-22523 COBTINENTAL SHELVES	controlled fusion concept [AIAA PAPER 75-1263] 08 p0182 A75-45663 Thermal power conversion systems for fusion plants 08 p0187 A75-45953 New approaches to CTR: General relativistic power plants [UCRL-75443] 06 p0073 N75-16362 Man-made sun. Thermonuclear engineering developments
[PB-239580/4] 07 p0153 H75-26487 CONSTRUCTION Erecting gas storage facilities and oil centers [AD-A006559] 07 p0134 H75-22783 CONSTRUCTION HATERIALS Hetals and composites in superflywheel energy storage systems 06 p0047 A75-22523 CONTINENTAL SHELVES Offshore investigation: Producible shut-in leases as of January 1974, phase 2 an estimation of	controlled fusion concept [AIAA PAPER 75-1263] 08 p0182 A75-45663 Thermal power conversion systems for fusion plants 08 p0187 A75-45953 New approaches to CTR: General relativistic power plants [UCRL-75443] 06 p0073 N75-16362 Han-made sun. Thermonuclear engineering developments [BLL-M-23333-(5828.4F)] 06 p0091 N75-19014
[PB-239580/4] 07 p0153 H75-26487 COBSTRUCTION Erecting gas storage facilities and oil centers [AD-A006559] 07 p0134 H75-22783 COBSTRUCTION MATERIALS Hetals and composites in superflywheel energy storage systems 06 p0047 A75-22523 CONTINENTAL SHELVES Offshore investigation: Producible shut-in leases	controlled fusion concept [AIAA PAPER 75-1263] 08 p0182 A75-45663 Thermal power conversion systems for fusion plants 08 p0187 A75-45953 New approaches to CTR: General relativistic power plants [UCRL-75443] 06 p0073 N75-16362 Man-made sun. Thermonuclear engineering developments [BLL-M-23333-(5828.4F)] 06 p0091 N75-19014 Synthetic fuels from fusion reactors
[PB-239580/4] 07 p0153 H75-26487 COBSTRUCTION Erecting gas storage facilities and oil centers [AD-A006559] 07 p0134 H75-22783 COBSTRUCTION MATERIALS Hetals and composites in superflywheel energy storage systems 06 p0047 A75-22523 CONTINENTAL SHELVES Offshore investigation: Producible shut-in leases as of January 1974, phase 2 an estimation of natural gas reserves in offshore wells 05 p0027 H75-11458	controlled fusion concept [AIAA PAPER 75-1263] 08 p0182 A75-45663 Thermal power conversion systems for fusion plants 08 p0187 A75-45953 New approaches to CTR: General relativistic power plants [UCRL-75443] 06 p0073 N75-16362 Man-made sun. Thermonuclear engineering developments [BLL-M-23333-(5828.4F)] 06 p0091 N75-19014 Synthetic fuels from fusion reactors [BNL-19351] 06 p0106 N75-21098
[PB-239580/4] 07 p0153 H75-26487 COBSTRUCTION Erecting gas storage facilities and oil centers [AD-A006559] 07 p0134 H75-22783 COBSTRUCTION MATERIALS Hetals and composites in superflywheel energy storage systems 06 p0047 A75-22523 CONTINENTAL SHELVES Offshore investigation: Producible shut-in leases as of January 1974, phase 2 an estimation of natural gas reserves in offshore wells 05 p0027 H75-11458	controlled fusion concept [AIAA PAPER 75-1263] 08 p0182 A75-45663 Thermal power conversion systems for fusion plants 08 p0187 A75-45953 Wew approaches to CTR: General relativistic power plants [UCRL-75443] 06 p0073 N75-16362 Han-made sun. Thermonuclear engineering developments [BLL-N-23333-(5828.4P)] 06 p0091 N75-19014 Synthetic fuels from fusion reactors [BNL-19351] 06 p0106 N75-21098 CONVECTIVE FLOW
[PB-239580/4] 07 p0153 H75-26487 COBSTRUCTION Brecting gas storage facilities and oil centers [AD-A006559] 07 p0134 H75-22783 COBSTRUCTION HATERIALS Betals and composites in superflywheel energy storage systems 06 p0047 A75-22523 COMTINENTAL SHELVES Offshore investigation: Producible shut-in leases as of January 1974, phase 2 an estimation of natural gas reserves in offshore wells	CONTROLLED fusion concept [AIAA PAPER 75-1263] 08 p0182 A75-45663 Thermal power conversion systems for fusion plants 08 p0187 A75-45953 New approaches to CTR: General relativistic power plants [UCRL-75443] 06 p0073 N75-16362 Han-made sun. Thermonuclear engineering developments [BLL-H-23333-(5828.4F)] 06 p0091 N75-19014 Synthetic fuels from fusion reactors [BNL-19351] 06 p0106 N75-21098 CONVECTIVE FLOW A hot liquid energy storage system utilizing
[PB-239580/4] 07 p0153 H75-26487 CONSTRUCTION Brecting gas storage facilities and oil centers [AD-A006559] 07 p0134 H75-22783 CONSTRUCTION HATERIALS Betals and composites in superflywheel energy storage systems 06 p0047 A75-22523 CONTINENTAL SHELVES Offshore investigation: Producible shut-in leases as of January 1974, phase 2 an estimation of natural gas reserves in offshore wells Development of oil and gas on the Continental Shelf [GPO-31-891] 06 p0075 H75-16973	controlled fusion concept [AIAA PAPER 75-1263] 08 p0182 A75-45663 Thermal power conversion systems for fusion plants 08 p0187 A75-45953 Wew approaches to CTR: General relativistic power plants [UCRL-75443] 06 p0073 N75-16362 Han-made sun. Thermonuclear engineering developments [BLL-N-23333-(5828.4P)] 06 p0091 N75-19014 Synthetic fuels from fusion reactors [BNL-19351] 06 p0106 N75-21098 CONVECTIVE PLOW A hot liquid energy storage system utilizing natural circulation [ASME PAPER 74-WA/HT-16] 05 p0017 A75-16862
[PB-239580/4] 07 p0153 H75-26487 COBSTRUCTION Erecting gas storage facilities and oil centers [AD-A006559] 07 p0134 H75-22783 COBSTRUCTION MATERIALS Betals and composites in superflywheel energy storage systems 06 p0047 A75-22523 COBTINENTAL SHELVES Offshore investigation: Producible shut-in leases as of January 1974, phase 2 an estimation of natural gas reserves in offshore wells 05 p0027 H75-11458 Development of oil and gas on the Continental Shelf [GPO-31-891] 0CS oil and gas: An environmental assessment,	controlled fusion concept [AIAA PAPER 75-1263] 08 p0182 A75-45663 Thermal power conversion systems for fusion plants 08 p0187 A75-45953 Mew approaches to CTR: General relativistic power plants [UCRL-75443] 06 p0073 N75-16362 Han-made sun. Thermonuclear engineering developments [BLL-M-23333-(5828.4F)] 06 p0091 N75-19014 Synthetic fuels from fusion reactors [BNL-19351] 06 p0106 N75-21098 CONVECTIVE FLOW A hot liquid energy storage system utilizing natural circulation [ASME PAPER 74-WA/HT-16] 05 p0017 A75-16862 The nature of the sunspot phenomenon. III - Energy
[PB-239580/4] 07 p0153 H75-26487 CONSTRUCTION Erecting gas storage facilities and oil centers [AD-A006559] 07 p0134 H75-22783 CONSTRUCTION HATERIALS Hetals and composites in superflywheel energy storage systems 06 p0047 A75-22523 CONSTRUCTION HATERIALS Of p0047 A75-22523 OF p0047 A75-21458 Development of oil and gas on the continental Shelf [GP0-31-891] 06 p0075 B75-16973 OCS oil and gas: An environmental assessment, volume 3 effect of natural phenomena on OCS	controlled fusion concept [AIAA PAPER 75-1263] 08 p0182 A75-45663 Thermal power conversion systems for fusion plants 08 p0187 A75-45953 New approaches to CTR: General relativistic power plants [UCRL-75443] 06 p0073 N75-16362 Man-made sun. Thermonuclear engineering developments [BLL-M-23333-(5828.4F)] 06 p0091 B75-19014 Synthetic fuels from fusion reactors [BNL-19351] 06 p0106 N75-21098 CONVECTIVE FLOW A hot liquid energy storage system utilizing natural circulation [ASME PAPER 74-WA/HT-16] 05 p0017 A75-16862 The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The
[PB-239580/4] 07 p0153 H75-26487 CONSTRUCTION Brecting gas storage facilities and oil centers [AD-A006559] 07 p0134 H75-22783 CONSTRUCTION HATERIALS Betals and composites in superflywheel energy storage systems 06 p0047 A75-22523 CONTINENTAL SHELVES Offshore investigation: Producible shut-in leases as of January 1974, phase 2 an estimation of natural gas reserves in offshore wells 05 p0027 H75-11458 Development of oil and gas on the Continental Shelf [GPO-31-891] 06 p0075 H75-16973 OCS oil and gas: An environmental assessment, volume 3 effect of natural phenomena on OCS gas and oil development	controlled fusion concept [AIAA PAPER 75-1263] 08 p0182 A75-45663 Thermal power conversion systems for fusion plants 08 p0187 A75-45953 Wew approaches to CTR: General relativistic power plants [UCRL-75443] 06 p0073 N75-16362 Han-made sun. Thermonuclear engineering developments [BLL-N-23333-(5828.4P)] 06 p0091 N75-19014 Synthetic fuels from fusion reactors [BNL-19351] 06 p0106 N75-21098 CONVECTIVE PLOW A hot liquid energy storage system utilizing natural circulation [ASME PAPER 74-WA/HT-16] 05 p0017 A75-16862 The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The intrinsic instability of the magnetic
[PB-239580/4] 07 p0153 H75-26487 COBSTRUCTION Erecting gas storage facilities and oil centers [AD-A006559] 07 p0134 H75-22783 COBSTRUCTION HATERIALS Betals and composites in superflywheel energy storage systems 06 p0047 A75-22523 COBTINENTAL SHELVES Offshore investigation: Producible shut-in leases as of January 1974, phase 2 an estimation of natural gas reserves in offshore wells 05 p0027 H75-11458 Development of oil and gas on the Continental Shelf [GPO-31-891] 06 p0075 H75-16973 OCS oil and gas: An environmental assessment, volume 3 effect of natural phenomena on OCS gas and oil development 06 p0083 H75-17836	controlled fusion concept [AIAA PAPER 75-1263] 08 p0182 A75-45663 Thermal power conversion systems for fusion plants 08 p0187 A75-45953 New approaches to CTR: General relativistic power plants [UCRL-75443] 06 p0073 N75-16362 Han-made sun. Thermonuclear engineering developments [BLL-M-23333-(5828.4F)] 06 p0091 N75-19014 Synthetic fuels from fusion reactors [BNL-19351] 06 p0106 N75-21098 CONVECTIVE FLOW A hot liquid energy storage system utilizing natural circulation [ASME PAPER 74-WA/HT-16] 05 p0017 A75-16862 The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The intrinsic instability of the magnetic configuration
[PB-239580/4] 07 p0153 H75-26487 COBSTRUCTION Erecting gas storage facilities and oil centers [AD-A006559] 07 p0134 H75-22783 COBSTRUCTION MATERIALS Hetals and composites in superflywheel energy storage systems 06 p0047 A75-22523 COBTINENTAL SHELVES Offshore investigation: Producible shut-in leases as of January 1974, phase 2 an estimation of natural gas reserves in offshore wells 05 p0027 H75-11458 Development of oil and gas on the Continental Shelf [GPO-31-891] 06 p0075 H75-16973 OCS oil and gas: An environmental assessment, volume 3 effect of natural phenomena on OCS gas and oil development 06 p0083 H75-17836 OCS oil and gas: An environmental assessment,	controlled fusion concept [AIRA PAPER 75-1263] 08 p0182 A75-45663 Thermal power conversion systems for fusion plants 08 p0187 A75-45953 New approaches to CTR: General relativistic power plants [UCRL-75443] 06 p0073 N75-16362 Man-made sun. Thermonuclear engineering developments [BLL-M-23333-(5828.4F)] 06 p0091 N75-19014 Synthetic fuels from fusion reactors [BNL-19351] 06 p0106 N75-21098 CONVECTIVE FLOW A hot liquid energy storage system utilizing natural circulation [ASME PAPER 74-WA/HT-16] 05 p0017 A75-16862 The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The intrinsic instability of the magnetic configuration 06 p0064 A75-29137
[PB-239580/4] 07 p0153 H75-26487 CONSTRUCTION Brecting gas storage facilities and oil centers [AD-A006559] 07 p0134 H75-22783 CONSTRUCTION HATERIALS Betals and composites in superflywheel energy storage systems 06 p0047 A75-22523 CONTINENTAL SHELVES Offshore investigation: Producible shut-in leases as of January 1974, phase 2 an estimation of natural gas reserves in offshore wells 05 p0027 H75-11458 Development of oil and gas on the Continental Shelf [GPO-31-891] 06 p0075 H75-16973 OCS oil and gas: An environmental assessment, volume 3 effect of natural phenomena on OCS gas and oil development 06 p0083 H75-17836 OCS oil and gas: An environmental assessment, Volume 1	controlled fusion concept [AIAA PAPER 75-1263] 08 p0182 A75-45663 Thermal power conversion systems for fusion plants 08 p0187 A75-45953 Wew approaches to CTR: General relativistic power plants [UCRL-75443] 06 p0073 N75-16362 Han-made sun. Thermonuclear engineering developments [BLL-M-23333-(5828.4P)] 06 p0091 N75-19014 Synthetic fuels from fusion reactors [BNL-19351] 06 p0106 N75-21098 CONVECTIVE FLOW A hot liquid energy storage system utilizing natural circulation [ASME PAPER 74-WA/HT-16] 05 p0017 A75-16862 The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The intrinsic instability of the magnetic configuration 06 p0064 A75-29137 CONVECTIVE HEAT TRANSFER
[PB-239580/4] 07 p0153 H75-26487 COBSTRUCTION Erecting gas storage facilities and oil centers [AD-A006559] 07 p0134 H75-22783 COBSTRUCTION HATERIALS Betals and composites in superflywheel energy storage systems 06 p0047 A75-22523 COBTINENTAL SHELVES Offshore investigation: Producible shut-in leases as of January 1974, phase 2 an estimation of natural gas reserves in offshore wells 05 p0027 H75-11458 Development of oil and gas on the Continental Shelf [GPO-31-891] 06 p0075 H75-16973 OCS oil and gas: An environmental assessment, volume 3 effect of natural phenomena on OCS gas and oil development 06 p0083 H75-17836 OCS oil and gas: An environmental assessment, volume 1 06 p0083 H75-17837	CONTROLLED fusion concept [AIAA PAPER 75-1263] 08 p0182 A75-45663 Thermal power conversion systems for fusion plants 08 p0187 A75-45953 New approaches to CTR: General relativistic power plants [UCRL-75443] 06 p0073 N75-16362 Han-made sun. Thermonuclear engineering developments [BLL-M-23333-(5828.4F)] 06 p0091 N75-19014 Synthetic fuels from fusion reactors [BNL-19351] 06 p0106 N75-21098 CONVECTIVE FLOW A hot liquid energy storage system utilizing natural circulation [ASME PAPER 74-WA/HT-16] 05 p0017 A75-16862 The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The intrinsic instability of the magnetic configuration CONVECTIVE HEAT TRANSPER Hatural convection in enclosed spaces - A review
[PB-239580/4] 07 p0153 H75-26487 COBSTRUCTION Erecting gas storage facilities and oil centers [AD-A006559] 07 p0134 H75-22783 COBSTRUCTION HATERIALS Hetals and composites in superflywheel energy storage systems 06 p0047 A75-22523 COBTINENTAL SHELVES Offshore investigation: Producible shut-in leases as of January 1974, phase 2 an estimation of natural gas reserves in offshore wells 05 p0027 H75-11458 Development of oil and gas on the Continental Shelf [GPO-31-891] 06 p0075 H75-16973 OCS oil and gas: An environmental assessment, volume 3 effect of natural phenomena on OCS gas and oil development 06 p0083 H75-17836 OCS oil and gas: An environmental assessment, Volume 1 06 p0083 H75-17837 OCS oil and gas: An environmental assessment,	controlled fusion concept [AIRA PAPER 75-1263] 08 p0182 A75-45663 Thermal power conversion systems for fusion plants 08 p0187 A75-45953 New approaches to CTR: General relativistic power plants [UCRL-75443] 06 p0073 N75-16362 Man-made sun. Thermonuclear engineering developments [BLL-M-23333-(5828.4F)] 06 p0091 N75-19014 Synthetic fuels from fusion reactors [BNL-19351] 06 p0106 N75-21098 CONVECTIVE FLOW A hot liquid energy storage system utilizing natural circulation [ASME PAPER 74-WA/HT-16] 05 p0017 A75-16862 The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The intrinsic instability of the magnetic configuration CONVECTIVE HEAT TRANSFER Hatural convection in enclosed spaces - A review of application to solar energy collection
[PB-239580/4] 07 p0153 H75-26487 COBSTRUCTION Brecting gas storage facilities and oil centers [AD-A006559] 07 p0134 H75-22783 COBSTRUCTION HATERIALS Betals and composites in superflywheel energy storage systems 06 p0047 A75-22523 COBTINENTAL SHBLVES Offshore investigation: Producible shut-in leases as of January 1974, phase 2 an estimation of natural gas reserves in offshore wells 05 p0027 H75-11458 Development of oil and gas on the Continental Shelf [GPO-31-891] 06 p0075 H75-16973 OCS oil and gas: An environmental assessment, volume 3 effect of natural phenomena on OCS gas and oil development 06 p0083 H75-17836 OCS oil and gas: An environmental assessment, volume 1 06 p0083 H75-17837 OCS oil and gas: An environmental assessment, volume 2	CONTROLLED fusion concept [AIRA PAPER 75-1263] 08 p0182 A75-45663 Thermal power conversion systems for fusion plants 08 p0187 A75-45953 Wew approaches to CTR: General relativistic power plants [UCRL-75443] 06 p0073 N75-16362 Han-made sun. Thermonuclear engineering developments [BLL-H-23333-(5828.4P)] 06 p0091 N75-19014 Synthetic fuels from fusion reactors [BNL-19351] 06 p0106 N75-21098 CONVECTIVE FLOW A hot liquid energy storage system utilizing natural circulation [ASME PAPER 74-WA/HT-16] 05 p0017 A75-16862 The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The intrinsic instability of the magnetic configuration 06 p0064 A75-29137 CONVECTIVE HEAT TRANSFER Hatural convection in enclosed spaces - A review of application to solar energy collection [ASME PAPER 74-WA/HT-12] 05 p0017 A75-16860
[PB-239580/4] 07 p0153 H75-26487 COBSTRUCTION Erecting gas storage facilities and oil centers [AD-A006559] 07 p0134 H75-22783 COBSTRUCTION HATERIALS Hetals and composites in superflywheel energy storage systems 06 p0047 A75-22523 COBTINENTAL SHELVES Offshore investigation: Producible shut-in leases as of January 1974, phase 2 an estimation of natural gas reserves in offshore wells Development of oil and gas on the Continental Shelf [GPO-31-891] 06 p0075 H75-11458 OCS oil and gas: An environmental assessment, volume 3 effect of natural phenomena on OCS gas and oil development OCS oil and gas: An environmental assessment, volume 1 OCS oil and gas: An environmental assessment, volume 1 OCS oil and gas: An environmental assessment, volume 2 OCS p0084 H75-17838	CONTROLLED FUSION CONCEPT [AIAA PAPER 75-1263] 08 p0182 A75-45663 Thermal power conversion systems for fusion plants 08 p0187 A75-45953 New approaches to CTR: General relativistic power plants [UCRL-75443] 06 p0073 N75-16362 Han-made sun. Thermonuclear engineering developments [BLL-M-23333-(5828.4F)] 06 p0091 N75-19014 Synthetic fuels from fusion reactors [BNL-19351] 06 p0106 N75-21098 CONVECTIVE FLOW A hot liquid energy storage system utilizing natural circulation [ASME PAPER 74-WA/HT-16] 05 p0017 A75-16862 The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The intrinsic instability of the magnetic configuration 06 p0064 A75-29137 CONVECTIVE HEAT TRANSFER Hatural convection in enclosed spaces - A review of application to solar energy collection [ASME PAPER 74-WA/HT-12] 05 p0017 A75-16860 CONVERGENCE
[PB-239580/4] 07 p0153 H75-26487 COBSTRUCTION Erecting gas storage facilities and oil centers [AD-A006559] 07 p0134 H75-22783 COBSTRUCTION HATERIALS Hetals and composites in superflywheel energy storage systems 06 p0047 A75-22523 COBTINENTAL SHELVES Offshore investigation: Producible shut-in leases as of January 1974, phase 2 an estimation of natural gas reserves in offshore wells 05 p0027 H75-11458 Development of oil and gas on the Continental Shelf [GPO-31-891] 06 p0075 H75-16973 OCS oil and gas: An environmental assessment, volume 3 effect of natural phenomena on OCS gas and oil development 06 p0083 H75-17836 OCS oil and gas: An environmental assessment, volume 1 06 p0083 H75-17837 OCS oil and gas: An environmental assessment, volume 2 06 p0084 H75-17838 OCS oil and gas: An environmental assessment,	CONTROLLED fusion concept [AIRA PAPER 75-1263] 08 p0182 A75-45663 Thermal power conversion systems for fusion plants 08 p0187 A75-45953 New approaches to CTR: General relativistic power plants [UCRL-75443] 06 p0073 N75-16362 Man-made sun. Thermonuclear engineering developments [BLL-M-23333-(5828.4F)] 06 p0091 N75-19014 Synthetic fuels from fusion reactors [BNL-19351] 06 p0106 N75-21098 CONVECTIVE FLOW A hot liquid energy storage system utilizing natural circulation [ASME PAPER 74-WA/HT-16] 05 p0017 A75-16862 The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The intrinsic instability of the magnetic configuration 06 p0064 A75-29137 CONVECTIVE HEAT TRANSFER Hatural convection in enclosed spaces - A review of application to solar energy collection [ASME PAPER 74-WA/HT-12] 05 p0017 A75-16860 CONVERGENCE CONVERGENCE
[PB-239580/4] 07 p0153 H75-26487 COBSTRUCTION Erecting gas storage facilities and oil centers [AD-A006559] 07 p0134 H75-22783 COBSTRUCTION HATERIALS Hetals and composites in superflywheel energy storage systems 06 p0047 A75-22523 COBTINENTAL SHELVES Offshore investigation: Producible shut-in leases as of January 1974, phase 2 an estimation of natural gas reserves in offshore wells Development of oil and gas on the Continental Shelf [GPO-31-891] 06 p0075 H75-11458 OCS oil and gas: An environmental assessment, volume 3 effect of natural phenomena on OCS gas and oil development OCS oil and gas: An environmental assessment, volume 1 OCS oil and gas: An environmental assessment, volume 1 OCS oil and gas: An environmental assessment, volume 2 OCS p0084 H75-17838	CONTROLLED FUSION CONCEPT [AIAA PAPER 75-1263] 08 p0182 A75-45663 Thermal power conversion systems for fusion plants 08 p0187 A75-45953 New approaches to CTR: General relativistic power plants [UCRL-75443] 06 p0073 N75-16362 Han-made sun. Thermonuclear engineering developments [BLL-M-23333-(5828.4F)] 06 p0091 N75-19014 Synthetic fuels from fusion reactors [BNL-19351] 06 p0106 N75-21098 CONVECTIVE FLOW A hot liquid energy storage system utilizing natural circulation [ASME PAPER 74-WA/HT-16] 05 p0017 A75-16862 The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The intrinsic instability of the magnetic configuration 06 p0064 A75-29137 CONVECTIVE HEAT TRANSFER Hatural convection in enclosed spaces - A review of application to solar energy collection [ASME PAPER 74-WA/HT-12] 05 p0017 A75-16860 CONVERGENCE

COOK INLET (AK)	The NASA-Lewis/ERDA Solar Heating and Cooling
Natural gas fields, Cook Inlet Basin, Alaska [PB-235767/1]	Technology Program
COOLING	08 p0197 A75-47803 Solar energy program plan for heating and cooling
An intercell heat pipe for fuel cell and battery	buildings
cooling	[WASH-1337-5-DRAPT] 06 p0077 h75-16993
[AD-782888] 05 p0027 H75-11226	. Heat pumps in large buildings a refrigerating
Solar Reating and Cooling Demonstration Act of	unit for heating and cooling
1974: Oversight hearings	[OA-TRAMS-939] 06 p0078 M75-17184
[GPO-55-414] 08 p0212 N75-33495	Study of active cooling for supersonic transports
COOLING SYSTEMS	[NASA-CR-132573] 06 p0079 H75-17336
Solar energy storage within the absorption cycle	Design and construction of a residential solar
[ASHE PAPER 74-WA/HT-18] 05 p0017 A75-16864	heating and cooling system
Selection and evaluation of the University of	[PB-237042/7] 06 p0082 #75-17823
Plorida's solar powered absorption air conditioning system	Use of solar energy in buildings in New York state
[ASME PAPER 74-WA/SOL-6] 05 p0019 A75-16889	[PB-236974/2] 06 p0083 N75-17825 Assessment of the Rankine cycle for potential
Assessment of Rankine cycle for potential	application to solar powered cooling of buildings
application to solar-powered cooling of buildings	[PB-238069/9] 06 p0089 B75-18755
[ASME PAPER 74-WA/SOL-7] 05 p0019 A75-16890	The development of a solar residential heating and
Dynamic simulation for performance analysis of	cooling system
solar heated and cooled buildings	[NASA-CR-142728] 07 p0140 875-24107
[ASHE PAPER 74-WA/SOL-8] 05 p0019 A75-16891	Seminar on Industrial Energy Conservation and
Solar collector performance evaluated outdoors at	Seminar on Solar Space Heating and Cooling
NASA-Lewis Research Center	[PB-241462/1] 08 p0212 #75-33498
06 p0058 175-27531 Solar heating and cooling of buildings	COPPER SELEMIDES Efficient CuInSe2/CdS solar cells
06 p0059 A75-27783	07 p0119 A75-36274
A high-speed superconducting generator	COPPER SULFIDES
06 p0060 A75-27960	CdS-Cu2S cells - An outlook for terrestrial
SIMSHAC - A simulation program for solar heating	applications
and cooling of buildings	06 p0052 A75-24223
06 p0061 A75-28093	Progress in the development of cadmium sulphide
Cooling by solar heat heating and cooling	terrestrial solar batteries
system for buildings	06 p0052 A75-24224
[AIAA PAPER 75-609] 06 p0062 A75-28590	CdS/Cu2S solar cells, their potential and
Design and construction of a residential solar heating and cooling system	limitations 08 p0188 A75-45961
07 p0109 A75-29472	CORROSION
Solar heating and cooling	Corrosion problems in energy conversion and
07 p0111 A75-31269	generation: Proceedings of the Symposium, New
Pilot solar air-conditioning plant and results of	York, N.Y., October 15-17, 1974
its use	06 p0054 A75-24376
07 p0111 A75-31512	CORROSION PREVENTION
Solar energy and architecture	Concerning the use of a nitrogen-potassium gaseous
07 p0112 A75-31698	mixture for protection of MHD-generator
Solar heating and cooling of buildings using heat pumps /Brief survey/	electrodes by suction 07 p0112 A75-31569
07 p0116 A75-34321	CORROSION RESISTANCE
Modeling of solar absorption air conditioning	Materials screening program for the LLL geothermal
07 p0117 A75-34932	project
Optimization of the operating conditions of a	[UCRL-75353] 06 p0082 N75-17815
combined generator-cooler thermoelement	CORROSION TESTS
07 p0121 A75-37155	Corrosion studies of materials for auxiliary
Summary of NASA-Lewis Research Center solar	equipment in MHD power plants
heating and cooling and wind energy programs 07 p0123 A75-37240	06 p0055 A75-24384
Radiation cooling of structures with infrared	Hydrogen cycle peak-shaving for electric utilities
transparent wind screens	05 p0005 A75-10535
08 p0167 A75-39407	The economics of nuclear power
Cooling with the sun's heat - Design	06 p0047 A75-22734
considerations and test data for a Rankine Cycle	Simulation of a solar heating and cooling system
prototype	for houses
08 p0167 A75-39409	06 p0048 A75-23018
Solar absorption air conditioning alternatives 08 p0167 A75-39410	Parametric performance and cost models for solar concentrators
Use of solar heat rumps for heating and air	07 p0109 175-29476
conditioning - A brief survey	Pabricating paraboloidal high-temperature solar
08 p0170 a75-41534	concentrators from mollified sectors
Technical and economic evaluation of solar heating	07 p0122 A75-37166
and cooling of buildings	The fuel scene and its impact on the economics of
08 p0184 A75-45921	airline operations
Solar heating and cooling of Army buildings	08 p0165 A75-39018
08 p0184 A75-45926	Liquid hydrogen as a fuel for future commercial
An integrated solar heated and cooled mobile home 08 p0184 A75-45927	08 p0178 A75-44792
Study on parameter variations for solar powered	On the role of hydrogen in electric energy storage
lithium bromide absorption cooling	08 p0178 A75-44797
08 p0186 A75-45938	Heat pipe manufacturing study
A computer program to determine the optimum	[NASA-CR-139140] 05 p0023 H75-10347
configuration of solar assisted building heating	Effect of gas turbine efficiency and fuel cost on
and cooling systems based upon life-cycle cost	cost of producing electric power
08 p0186 A75-45941	[PB-234159/2] 05 p0034 N75-13397
Evaluation of solar-assisted Rankine cycle concept for the cooling of buildings	Prototype oil shale leasing program
	[GPO-28-686]
08 n0194 A75-46040	[GPO-28-686] 05 p0039 N75-15160 Study of the costs and benefits of composite
08 p0194 A75-46040 Heat pipe applications development in Europe	[GPO-28-686] 05 p0039 H75-15160 Study of the costs and benefits of composite materials in advanced turbofan engines

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SDRIECT TENEY COST ESTIMATES

The satellite solar power station - A step toward the industrial use of space [IAP PAPER 75-003] 08 p0183 A75-45: A large mechanical contracting corporation solar heats its own offices Evaluation of thermal methods for recovery of viscous oils in Missouri and Kansas [PB-237831/3] 06 p0090 N75-18762 08 p0183 A75-45903 Investment and operating costs of binary cycle geothermal power plants 06 p0101 N75-20855 08 p0184 A75-45924 Synthetic Liquid Fuel Research and Development Act Energy storage by flywheels of 1974 --- energy conservation and cost analyses [GPO-44-818] 06 p0103 H75-20867 08 p0185 A75-45930 A computer program to determine the optimum configuration of solar assisted building heating United States transportation fuel economics (1975 1995) and cooling systems based upon life-cycle cost WASA-TH-X-3197] 08 p0186 A75-45941 Relationships between bidding and hydrocarbon production of the Federal Outer Continental Thermionic topping of electric power plants
08 p0189 175-45973 Production of the reactive office onergy sources [PB-238188/7] 07 p0127 N75-21788 The selection and use of energy storage for solar thermal electric application Benefit-cost methodology study with example application of the use of wind generators 08 p0189 A75-45980 Orbital solar energy technology advances [NASA-CR-134864] 08 p0207 N75-31571 08 p0192 A75-46018 Selected topics on hydrogen fuel [COM-75-10619/5] A technology assessment of the hydrogen economy 08 p0207 N75-31575 concept COST BYPECTIVENESS 08 p0194 A75-46037 Cost effective designing for the economic RTG ---Preliminary results of the large experimental wind turbine phase of the national wind energy program
08 p0196 A75-47798 radioisotope thermoelectric generators 05 p0003 A75-10507
Energy storage undergound --- hydroelectric
pumped-storage and combustion turbine facilities Prospects for magnetohydrodynamic electric power plants in power engineering 06 p0081 N75-17791 05 p0013 A75-12989 Economic and energy conservation relationship relevant to state of New York building design Progress in coal gasification 05 p0013 A75-12993
Effectiveness of using semiconductor heat pumps and contract awards under the conditions of the Turkmen SSR [PB-237006/2] 06 p0082 N75-17824 05 p0020 A75-17083 A SASOL type process for gasoline, methanol, SNG, and low-Btu gas from coal Material considerations involved in solar energy [PB-237670/5] Conversion 06 p0095 N75-19838 Economic-environmental power dispatch 06 p0047 A75-22522 The use of solar cells in the lighthouse service 07 p0128 N75-21791 Brief examination of the status of nuclear power in the republic, using 1974 costs 06 p0054 A75-24255 Lighter than air - A look at the past, a look at the possibilities [PEL-237E] 07.p0135 N75-22909 The high intensity solar cell: photovoltaic power [HASA-TH-I-71718] 06 p0056 A75-25995 Key to low cost Thermoelectric generators --- using semiconductor thermocouples 07 p0140 N75-24108 Utilization analysis of energy systems
[PB-239291/8] 07 p0144 N75-24144 06 p0058 A75-27718 Derivation of a total satellite energy system solar power station for terrestrial consumption
[AIAA PAPER 75-640] 06 p0064 A75-29 Integrated solar powered climate conditioning 06 p0064 A75-29118 systems Solar heating and cooling [PB-239759/4] 08 p0200 N75-28527 [PB-239/37/4]
The benefits/costs of tertiary oil recovery
FDR-240463/01 08 p0201 N75-28552 07 p0111 A75-31269 Optimal solar energy collector system 07 p0115 A75-33970 COST ESTIBATES Wind energy utilization prospects planning methodology for the analysis and design 07 p0117 A75-34928 of wind-power systems 05 p0004 A75-10517
The use of hydrogen as an energy carrier The high intensity solar cell - Key to low cost Photovoltaic power 05 p0015 A75-15795 07 p0123 A75-37400 electricity 08 p0165 A75-38863 Can hydrogen transmission replace An econometric analysis of fuel selection for power deneration Shale from oil shale economically 06 p0055 A75-24751 Evaluation of central solar tower power plant 07 p0116 A75-34531 An energy utility company's view of hydrogen energy 08 p0172 A75-42283 08 p0168 A75-40182 Solar climate control - Evaluating the commercial **Possibilities** 08 p0168 A75-40297 Design of short haul aircraft for fuel conservation Economic analysis of space-based electric power [SAE PAPER 750587] generation and transmission systems
[IAF PAPER 75-006] 08] 08 p0169 A75-40502 Generation schemes for wind power plants
08 p0169 A75-40688 08 p0183 A75-45829 Solar thermal electric power systems Will hydrogen transmission replace electricity [PB-235475/1] 05 p0038 N75-14283 Cost and size estimates for an electrochemical bulk energy storage concept [NASA-TH-X-3192] 05 p0039 N75 08 p0 172 A75-42281 Bconomics of hydrogen energy systems 05 p0039 N75-15161 08 p0 172 A75-42285 Revised cost estimate for the LLL in situ coal A technology assessment of the hydrogen economy concept gasification concept [UCRL-51578] 08 p0 172 A75-42286 05 p0039 N75-15166 generalised analysis of the performance of a variety of drive systems for high Reynolds number, transonic wind tunnels

[RAE-TR-73134] 06 p0073 M75-Getting at the hig facts in transportation --private and public transit efficiencies 08 p0173 A75-42973 Review of the prospects for laser induced thermonuclear fusion [1901-8802] The economics of liquid hydrogen supply for air transportation 08 p0173 A75-43978 Reliability of low cost Cu2S/CdS solar cells for large scale conversion of solar to electrical [AECL-4840] 06 p0106 N75-21099 The potential for developing Alaskan coals for clean export fuels, phase 1 [PB-238539/1] energy 07 p0127 N75-21786 08 p0174 A75-44754 Preliminary investigation into regulatory powers and policies on electric utility peak load pricing [PB-239761/0] 07 p0151 B75-25324 An economic perspective on hydrogen fuel 08 p0176 A75-44769
Outlook for Si photovoltaic devices for
terrestrial color-

terrestrial solar-energy utilization

08 p0181 A75-45509

•	
Cost and size estimates for an electrochemical	Barket performance and competition in the
bulk energy storage concept	petroleum industry, part 1
[NASA-TH-X-71805] 08 p0210 H75-32593 COST INCENTIVES	[GPO-28-503] 06 p0066 H75-16077 Oversight: Mandatory petroleum allocation programs
Technology utilization - Incentives and solar energy	[GPO-31-027] 06 p0081 N75-17806
06 p0048 A75-22913	Intermediate-term energy programs to protect
COST REDUCTION	against crude-petroleum import interruptions:
Next generation transports will emphasize fuel	Peasible alternatives, program costs, and
savings 05 p0011 A75-11426	operational methods of funding [PB-237209/2] 06 p0083 N75-17826
Performance of heat pumps using cold-side energy	Petroleum in Alabama including exploration,
storage and unconventional heat sources	production, and economics
[ASME PAPER 74-WA/HT-17] 05 p0017 A75-16863 High-speed silicon processing for low cost solar	[PB-237353/8] 06 p0085 H75-18442 Effects of changing the proportions of automotive
cells - A comparative analysis	distillate and gasoline produced by petroleum
. 06 p0052 A75-24222	refining
Process development for low cost integrated solar	[PB-236900/7] 06 p0085 H75-18443
arrays 06 p0054-A75-24259	Profitability analysis of producing crude oil by waterflooding using a simulation technique
RTG electrical power for spacecraft	[PB-237843/8] 06 p0088 N75-18738
Radioisotope Thermoelectric Generators	The effect of Alaskan crude oil and selected
06 p0057 A75-26067	hydrocarbon compounds on embryonic development
Gals concentrator solar cell 06 p0058 A75-27520	of the Pacific oyster, Crassostrea gigas 06 p0090 N75-18764
Hinimum cost solar thermal electric power systems	Pield surveillance and enforcement guide for
 A dynamic programming based approach 	petroleum refineries
07 p0112 A75-32097	[PB-236669/8] 06 p0090 N75-18786
Gaseous fuel nuclear reactor research 08 p0168 175-40177	Mechanical properties of oil shale from Anvil Point under conditions of uniaxial compression
Data monitoring and information availability - A	[SAND-74-0035] 06 p0092 H75-19390
key to solar energy utilization	Improving the oil storage system of western Siberia
08 p0169 A75-40618	[AD-A002717] 06 p0092 N75-19705
Concentrated photovoltaic power generation systems 08 p0188 A75-45963	An economic analysis of oil shale operations featuring gas combustion retorting
Electrical generation by wind power	[PB-237851/1] 06 p0093 H75-19813
08 p0193 A75-46024	In situ oil shale conversion and recovery
Low cost solar energy collection system [NASA-CASE-NPO-13579-1] 08 p0199 N75-28519	[SLA-74-0162] 06 p0093 N75-19825 Report to congress on petrochemicals analyzing
COSTS	supply/demand in industry
World oil developments and US oil import policies	[PB-238064/0] 06 p0097 N75-20478
[GPO-22-893] 07 p0148 N75-25294	Benthal decomposition of adsorbed octadecane
CRITICAL PRESSURE Capillary flow through heat-pipe wicks	impact of oil pollution, deoxygenation of waterways
[AIAA PAPER 75-661] 07 p0114 a75-32919	06 p0106 N75-20891
CROP GROWTH	Economic impact on the free world of the oil
The oceanic biomass energy plantation seaweed	crisis, October 1973 - Harch 1974
harvesting for food and fuel [AIAA PAPER 75-635] 06 p0063 A75-28599	[AD-A003136] 06 p0107 H75-21156 Industrial energy study of the petroleum refining
Puel production /biomass energy/ by fuel	industry
plantation development	[PB-238671/2] 07 p0130 N75-21818
07 p0111 A75-31275 Fuel as an agricultural crop	Erecting gas storage facilities and oil centers [AD-A006559] 07 p0134 H75-22783
08 p0172 A75-42533	Protecting the US petroleum market against future
Use of thermally enriched water for growing field	denials of imports
crops in Minnesota [PB-240112] 07 p0159 N75-27549	[AD-A006643] 07 p0137 N75-23387 Chemistry of organic sulfur compounds contained in
CRUDE OIL	petroleums and petroleum products, Volume 7
Laser induced luminescence signatures of refined	[TT-70-57759] 07 p0138 H75-23691
and virgin crude petroleum - Their composition	Energy imports and the US balance of payments
and remote sensing implications 06 p0050 A75-23790	[GPO-28-965] 07 p0141 875-24114 Energy and foreign policy
Laboratory semiautcmatic infrared device for	[GPO-22-562] 07 p0142 N75-24125
determining the composition of petroleum	Petroleum degradation in low temperature marine
products in sewage 07 p0125 A75-38648	and estuarine environments [AD-A007588] 07 p0146 N75-24191
The energy crises	The identification of gamma-valerolactone in waste
08 p0179 A75-44810	from an oil-shale in situ retort
National Crude Oil Refinery Development Act, part 2	determination of chemical composition by mass
[GPO-35-578] 05 p0027 N75-10860 The National Coal Conversion Act and the National	spectroscopy of effluents from crude oil shales causing water pollution
Crude Oil Refinery Development Act	[PB-240098/4] 07 p0147 #75-24852
[GPO-28-964] 05 p0027 N75-10861	Mineral resources and the environment. Appendix
Prospects for utilization of underwater houses and chambers in development of marine oil deposits	to section 2: Report of panel on estimation of mineral reserves and resources
05 p0029 N75-11606	[PB-239581/2] 07 p0153 B75-26488
Oil for the free world in the 1970's demand	Mineral resources and the environment. Appendix
and supply	to section 4: Report of panel on demand for
[AD-779352] 05 p0031 N75-12448 Oversight: Bandatory petroleum allocation	fuel and mineral resources [PB-239583/8] 07 p0153 H75-26490
programs, part 1	Materials and the new dimensions of conflict,
[GPO-30-060] 05 p0039 N75-15158	revised version
Oversight: Mandatory petroleum allocation programs, part 2	[AD-A004263] 07 p0154 H75-26499 A short handbook on fuels and lubricants
[GPO-31-519] 05 p0039 N75-15159	
	[AD-A004358] 07 p0158 N75-27170
Bureau of Mines energy program, 1973 discovery	Carbon isotopes in oil-gas geology
Bureau of Hines energy program, 1973 discovery and production of oil, gas, and fluid fuels [PB-234682/3] 05 p0040 N75-15172	

A simulation model of the development of petroleum	Cryogenic properties of Fe-Mn and Fe-Mn-Cr alloys
refining capacity using recursive linear	[LBL-2764] 06 p0066 N75-15781
programming [AD-A003723] 07 p0161 N75-27569	Hydrogen-future fuel-A bibliography (with emphasis on cryogenic technology)
[AD-A003723] 07 p0161 N75-27569 Current energy shortages oversight series: Oil	[COM-75-10289/7] 07 p0155 N75-26509
brokers, part 7	CRYSTAL GROWTH
[GPO-32-607] 07 p0161 N75-27576	High-speed silicon processing for low cost solar cells - A comparative analysis
Producing SNG by hydrogasifying in situ crude shale oil	06 p0052 A75-24222
[PB-240841/7] 08 p0201 N75-28548	Epitaxial silicon solar cell
Energy data requirements of the Federal	O6 p0056 A75-25086 Solar energy concentrator system for crystal
Government. Part 4: Propane and crude oil; conflicts of interest	growth and zone refining in space
[GPO-41-639] 08 p0207 N75-31566	[NASA-CR-120623] 06 p0086 N75-18719
Outer continental shelf oil and gas leasing off	CURIUM 244 A modular heat source for curium-244 and
southern California: Analysis of issues [GPO-41-659] 08 p0209 N75-31958	plutonium-238
Energy consumption: The primary metals and	05 p0002 A75-10497
petroleum industries [PB-241990/1] 08 p0213 N75-33503	A 10% efficient economic RTG design radioisotope thermoelectric generator
The economic impact of an interruption in United	05 p0003 A75-10506
States petroleum imports: 1975 - 2000	CEOCHRALSKI MRTHOD
[AD-A010914] 08 p0214 N75-33931 CRYOGENIC EQUIPMENT	High-speed silicon processing for low cost solar cells - A comparative analysis
A high-speed superconducting generator	06 p0052 A75-24222
06 p0060 A75-27960	
Main problems met in the study of cryogenic generators	D
06 p0061 A75-27962	DATA ACQUISITION
Cryogenic heat pipe experiment - Flight	National energy flow accounts
performance onboard a sounding rocket [AIAA PAPER 75-729] 07 p0113 A75-32872	[PB-239275/1] 07 p0146 N75+24539 Technology survey of electrical power generation
A flexible cryogenic heat pipe	and distribution for MIUS application
[AIAA PAPER 75-658] 07 p0114 A75-32916	[NASA-TH-x-58127] 08 p0207 N75-31573
<pre>Buclear heat source for cryogenic refrigerators in space Pu-238 battery design</pre>	DATA BASES Design considerations for a comprehensive regional
08 p0191 A75-46006	energy information system
Energy and cryoengineering	[PB-241123/9] 08 p0206 N75-30946
[LA-UR-74-741] 06 p0082 N75-17814	DATA COLLECTION PLATFORMS Remote platform power conserving system
ERTS-C (Landsat 3) cryogenic heat pipe experiment definition	[NASA-CASE-GSC-11182-1] 05 p0032 N75-13007
[NASA-CR-143797] 07 p0138 N75-23882	DATA CORRELATION
CRYOGERIC FLUID STORAGE The use of hydrogen as an energy carrier	Natural environment design criteria for the Solar Electric Propulsion Stage (SEPS)
05 p0015 A75-15795	[NASA-TH-X-64929] 07 p0138 N75-23682
Liquid hydrogen liquefaction, storage,	DATA MANAGEMBUT
transportation, applications 06 p0046 A75-22043	Data monitoring and information availability - A key to solar energy utilization
Automotive hydrogen engines, and onboard storage	08 p0169 A75-40618
methods	DATA PROCESSING
08 p0172 A75-42284 Survey of hydrogen compatibility problems in	Data base for the industrial energy study of the industrial chemicals group
energy storage and energy transmission	[PB-237845/3] 06 p0087 N75-18732
applications [SAND-74-8219] .06 p0087 N75-18726	Energy B/D Data Workshop [PB-237493/2] 07 p0130 N75-21811
[SAND-74-8219] .06 p0087 H75-18726 CRYOGENIC MAGNETS	DATA RECORDERS
Cryogenic engineering and fusion power	Data monitoring and information availability - A
superconducting magnet application to reactor design	key to solar energy utilization 08 p0169 A75-40618
08 p0173 A75-43979	DATA SYSTEMS
CRYOGRNIC STORAGE	Multispectral data systems for energy related
Low thermal flux glass-fiber/metal vessels for LH2	problems strip mining and power plant site monitoring
storage systems 08 p0177 A75-44783	07 p0118 A75-35464
CRYOGRNICS	DECISION HAKING
Some LNG vehicle developments for automotive	The solution of information-deficiency problems of electroenergy technology optimal decision
conversion systems and fueling stations 06 p0048 A75-23236	naking
The application of aerospace technology in the	06 p0062 A75-28508
Cryogenics field 06 p0048 A75-23239	Hydrogen - Mechanisms and strategies of market penetration
Cryogenics safety in a hydrogen fuel society	08 p0180 A75-44811
06 p0061 A75-27973	Energy utilization by households and technology
Research opportunities in cryogenic hydrogen-energy systems	assessment as a way to increase its effectiveness management methods and family decision making
08 p0171 A75-42280	06 p0097 N75-20829
Cryogenic Engineering Conference, Georgia	The energy crisis and decision making in the family
Institute of Technology, Atlanta, Ga., August 8-10, 1973, Proceedings	[PB-238783/5] 06 p0106 H75-21028 Bconomic-environmental power dispatch
08 p0173 A75-43976	07 p0128 N75-21791
Cryogenic H2 and national energy needs	Selected topics on hydrogen fuel
08 p0173 A75-43977 Heat pipe applications development in Europe	[COM-75-10619/5] 08 p0207 H75-31575 DECOMPOSITION
08 p0195 A75-46043	The generation of hydrogen by the thermal
Liquid hydrogen - Puture aircraft fuel:	
Background	decomposition of water
Background, payoff, and cryogenic engineering challenge	decomposition of water 05 p0005 A75-10532

	•		
Benthal decomposition of adsorbed		DEPOSITS	
<pre>impact of oil pollution, deoxy waterways</pre>	Jenation of	Coal in Alabama [PB-236583/1]	06 p0088 N75-18736
-	06 p0106 N75-20891	DESALIHIZATION	
DEGASSING Degasification of the Mary Lee co	alhod noar Oak	Solar stills for agricultural purpo	05es 07 p0115 A75-33972
Grove, Jefferson County, Alaban		DESERTS	77 ports &75~33972
borehole in advance of mining		Some generalizations of sample water	er-supply
[BM-RI-7968] DEGRADATION	05 p0028 N75-11462	calculations for solar-powered pu	umping plants 05 p0020 A75-17077
Petroleum degradation in low temp	erature marine	DESIGN ANALYSIS	75 POOZO Z15 11011
and estuarine environments	07 =0106 N75=20101	Dynamic simulation for performance	
[AD-A007588] DBHYDRATED FOOD	07 p0146 N75-24191	solar heated and cooled buildings [ASME PAPER 74-WA/SOL-8]	5 05 p0019 A75-16891
Research on the application of so food drying industry	olar energy to the	An engine project engineer's view of secondary power systems	
[PB-238073/1] DEICING	06 p0105 N75-20888		05 p0019 A75-16925
Snow and ice removal from pavemen earth energy via heat pipes		calculations for solar-powered pu	
[PB-240623/9]	07 p0162 N75-27581	Progress in heat pipe and porous he	
DEMAND (ECONOMICS) Future United States demand patte	rns and the use	technology	06 p0045 A75-20686
of hydrogen		Poreseeable thermal, mechanical, an	
Oil for the free world in the 107	08 p0179 A75-44806	engineering problems of fusion re	actor power
Oil for the free world in the 197 and supply	U.S demand	plants [SMRT PAPER A2/1] 0	06 p0046 A75-21713
[AD-779352]	05 p0031 N75-12448	Design and qualification of the CTS	
Interfuel substitution in the con		blanket onboard Canadian Comm	unications
energy in the United States. P		Technology Satellite	N
Residential and commercial sect [PB-234536/1]	05 p0040 N75-15178	Solar cell modules for lightweight	06 p0053 A75-24248
A study of the demand for gasolin		onboard communication satelli	
[PB-235254/0]	06 p0070 N75-16105	0	06 p0057 A75-26068
Puel and energy data: United Sta	tes by states and	Design study of the energy characte	
regions, 1972 [PB-236581/5]	06 p0077 N75-17004	thermionic electric power generat and assemblies	rnd combonence
Electric power rights: One appro	ach to rationing		6 p0064 A75-28893
[PB-238537/5]	07 p0 143 N75-24 138	A method of simulation of solar pro	
The residential user and the elec [PB-238535/9]	07 p0145 N75-24152	application energy collection	7 p0109 A75-29474
US energy and fuel demand to 1985		Parametric performance and cost mod	
projection by user within Petro		concentrators	
Administration for Defense (PAD [PB-239343/7]	07 p0151 N75-25322	Designing heat pipe heat sinks	7 p0109 A75-29476
Mineral resources and the environ			7 p0113 A75-32868
to section 4: Report of panel		Glass solar heat collector developm	
fuel and mineral resources	07 -0453 975 2000		7 p0115 175-33758
[PB-239583/8] The study of priorities in the el	07 p0153 N75-26490	Stationary concentrating reflector absorber solar energy collector -	
allocation problem		characteristics	.,
[PB-239762/8]	07 p0156 N75-26516		7 p0120 A75-36307
An analysis of the potential for power demand within daily load		Design and testing of an energy fly Integrated Power/Attitude Control	
[PB-239764/4]	07 p0156 N75-26517		8 p0171 A75-41669
The prospects of energy demand so	heduling	Deployable Symphonie solar generato	r
[PB-239763/6]	07 p0156 N75-26518		8 p0183 A75-45819
Demand for scientific and technic energy-related industries: Uni		A large mechanical contracting corp heats its own offices	Oldilon Solat
1970-1985		_	8 p0184 A75-45924
[PB-240865]	08 p0201 N75-28964	The nation's first private industri	
Oil and US policy [AD-A006473]	08 p0203 N75-29558	heating system - General Blectric Space Center	's valley Forge
Materials technology in the near-		. 01	8 p0184 A75-45925
[PB-240942/3]	08 p0205 N75-30665	Solar heating and cooling of Army b	
Project Independence report: A re	eview of U5	Energy storage by flywheels	8 p0184 A75-45926
energy needs up to 1985 (PB-242142/8)	08 p0213 #75-33506		8 p0185 A75-45930
Direct and indirect energy demand	models for DoD	Development of a 540-sq-ft prototype	
[AD-A010968]	08 p0214 #75-33515	mirror solar concentrator	0 -0106 175 15010
DRHMARK Exploiting wind power for the pro-	duction of	Design considerations in Schottky se	8 p0186 A75-45940
electricity windmill utiliz	ation in Denmark		8 p0188 A75-45962
[NASA-TT-P-16058]	05 p0033 ¥75-13385	Industrial process heat from solar	energy
Coordinated extension of power plants 1980's. A statement submitted		energy storage in water pond	8 p0190 A75-45992
of Commerce, Shipping, and Indu		Nickel-hydrogen secondary battery	, po 130 B/3 43332
Energy Committee of the Power P.	lants	. 08	8 p0191 A75-45997
[NP-20023]	06 p0067 #75-16088	Nickel-hydrogen as an alternative to	
DEMSITY DISTRIBUTION Effect of diffusion on concentrat:	ion profiles in a	nickel-cadmium systems in non-spac	B p0191 A75-45998
solar pond		Hydrogen production by electrolysis	
-	08 p0167 A75-39412	future	
DEOXYGENATION Benthal decomposition of adsorbed	octadecane	08 Moderately concentrating flat-plate	3 p0193 A75-46022 solar energy
impact of oil pollution, decayge		collectors	
waterways			3 p0196 A75-47526
	06 p0106 N75-20891 .		

SUBJECT INDEX DOMESTIC EMERGY

Economic radioisotope thermoelectric generator	DIGITAL TECHNIQUES
study program	Oil exploration needs for digital processing of
[IESD-3112-1] 05 p0036 N75-14269	imagery 05 m0001 275-10027
Test report SEPS solar array root section model [NASA-CR-120606] 06 p0067 N75-16085	DIPOLE ANTENNAS 05 p0001 A75-10437
Nickel-cadmium cells	Modeling and computer simulation of a
[NASA-CR-143715] 07 p0128 N75-21792	microwave-to-dc energy conversion element
Potassium topping cycles for stationary power conceptual analysis	07 p0120 A75-36500 DIRECT CURRENT
[NASA-CR-2518] . 07 p0135 N75-22906	Superconductive d.c. generator
DESULPUBIZIEG	06 p0061 A75-27961
Coal processing: Gasification, liquefaction,	Hodeling and computer simulation of a
desulfurization: A bibliography, 1930 - 1974 [TID-3349] 05 p0023 N75-10578	microwave-to-dc energy conversion element 07 p0120 A75-36500
Evaluation of coal conversion processes to provide	DIRECT POWER GENERATORS
clean fuels, part 1 coal conversion to clean	Study of channel-type systems for solar-energy
fuels [PB-234202/0] 05 p0025 N75-10600	radiative heat transport 05 p0010 A75-11196
Char oil energy development	Numerical simulation of direct energy conversion
[PB-233263/3] 05 p0025 N75-10603	from fusion reactions
Evaluation of coal conversion processes to provide	06 p0045 A75-19660
clean fuels, part 2 [PB-234203/8] 05 p0025 N75-10604	A study of channel systems for radiative solar-heat transfer
A process for cleaning and removal of sulfur	06 p0049 A75-23408
compounds from low Btu gases coal gasification	Solar electric and thermal conversion system in
[PB-236522/9] 06 p0065 N75-15768	close proximity to the consumer solar panels
Low Btu gasification high temperature-low temperature H2S removal comparison effect on	on house roofs [AIAA PAPER 75-628] 06 p0062 A75-28597
overall thermal efficiency in a combined cycle	Problems of direct conversion of thermal and
power plant	nuclear energy to electric energy
[PB-235780/4] 06 p0072 N75-16125 Development of a process for producing an ashless,	07 p0120 A75-36415 Electrochemical heat engines for direct electric
low-sulfur fuel from coal. Volume 4. Product	power generation and energy storage
studies. Part 3 Products from coal minerals	[AIAA PAPER 75-1237] 08 p0182 A75-45649
[PB-237764/6] 06 p0095 N75-19840	Redox thermogalvanic cells for direct energy
Development of a process for producing an ashless, low-sulfur fuel from coal. Volume 4. Product'	conversion 08 p0191 A75-45999
studies. Part 4. Sulfur removal from coal	Direct contact heat exchangers in geothermal power
minerals	production
[PB-237765/3] 06 p0095 N75-19841	[ASME PAPER 75-HT-52] 08 p0196 A75-47525 DART: A simulation code for a direct energy
Development of a process for producing an ashless, low-sulfur fuel from coal. Volume 4. Product	converter for fusion reactors
studies. Part 5. Developmental and rate	[UCRL-51557] 05 p0043 N75-15462
studies in processing of coal minerals	Fuel cells: Direct conversion of electrochemical
[PB-237766/1] 06 p0095 N75-19842 Coal combustion and desulfurization in a rotating	energy into electricity [SAND-74-0125] 06 p0103 N75-20869
fluidized bed reactor	Direct conversion of plasma energy to electricity
[BNL-19308] 07 p0129 N75-21799	for mirror fusion reactors
Chemically active fluid-bed process for sulphur removal during gasification of heavy fuel oil,	[UCRL-76051] 07 p0129 N75-21800 A direct voltage converter without transformer
phase 2	[NASA-TT-F-16174] 07 p0133 N75-22584
[PB-240632/0] 07 p0159 N75-27556	Cycle study of a mercury-colloidal electrofluid
DBUTBRIUM Hydrogen distribution profiling embrittlement	dynamic power generator [AD-A004814] 07 p0159 N75-27559
of storage Vessel surfaces	Direct solar energy conversion for large scale
08 p0179 A75-44805	terrestial use
DICHLORIDES	[PB-241007/4] 08 p0201 N75-28545
Engineering and cost study of air pollution control for the retrochemical industry, volume	Design of energy storage reactors for dc-to-dc converters
3: Ethylene dichloride manufacture by	[NASA-CR-143327] 08 p0204 N75-30438
oxychlorination	DIURNAL VARIATIONS
[PB-240492] 07 p0162 N75-27612	Performance of a solar battery using quasi-cylindrical array of plane mirrors as a
Dielectric power conversion	concentrator
08 p0189 A75-45979	07 p0109 a75-29478
DIESEL ENGINES Project Clear Nir 1972 INC conversion of CM-71	DOCUMENTATION Economic radioisotope thermoelectric generator
Project Clean Air 1972, LNG conversion of GM-71 series diesel engine considering automobile	study program: Appendices.
exhaust gases control	[IESD-3112-2] 05 p0036 N75-14270
[PB-236585/6] 06 p0090 N75-18783	DOCUMENTS
DIESEL FUELS Independent truckers and the energy crisis	NSF-Rann energy abstracts: A monthly abstract journal of energy research
[GPO-31-412] · 05 p0023 N75-10581	[ORNL-EIS-74-52-VOL-2-NO-1] 05 p0024 N75-10592
Project Clean Air 1972, LNG conversion of GM-71	DOMESTIC REERGY
series diesel engine considering automobile exhaust gases control	Utilization of hydrogen as an appliance fuel 08 p0178 A75-44794
[PB-236585/6] 06 p0090 N75-18783	Puture United States demand patterns and the use
DIGITAL SINULATION	of hydrogen
Numerical simulation of direct energy conversion	08 p0179 A75-44806
from fusion reactions 06 p0045 A75-19660	The energy crises 08 p0179 A75-44810
Long term power system dynamics. Volume 1:	The economic incentive for introducing electric
Summary and technical report	storage devices into the national energy system
[PB-240799/7] 07 p0161 N75-27573 Long term power system dynamics. Volume 2:	08 p0184 A75-45929 The EPA-Van - A clean energy system for the home
Long-term power system dynamics simulation program	mobile test station for nonpolluting systems
[PB-240800/3]. 07 p0161 N75-27574	08 p0186 A75-45946

The annual cycle energy system winter ice for	ECONOMIC AMALYSIS Proposics analyses of color energy philipation
summer air conditioning 08 p0187 A75-45947	Economics analyses of solar energy utilization 05 p0004 A75-10520
New dimensions in water heating in the Northwest - A study of solar energy utilization computer model	The Hydrogen Economy - A utility perspective energy technology 05 p0014 A75-12998
08 p0191 A75-45995 Plans and status of the NASA-Lewis Research Center	International energy problems and environmental policy
wind energy project 08 p0197 175-47802	05 p0014 A75-13597 Prospects for tapping solar energy on a large scale
DOMESTIC SATELLITE COMMUNICATIONS SYSTEMS Design and qualification of the CTS solar cell	05 p0015 A75-14014 Potential for large-scale energy storage in
blanket onboard Canadian Communications Technology Satellite	electric utility systems [ASME PAPER 74-WA/ENER-9] 05 p0016 A75-16840
06 p0053 A75-24248	Economics of a hydrogen storage peaking power plant
DRAG REDUCTION Evaluation of the overall fuel mass penalty of an	[ASME PAPER 74-WA/PWE-6] 05 p0018 A75-16880 Energy systems - Modeling and policy analysis
aircraft system 07 p0121 A75-36720 DRAIMAGE	06 p0055 A75-24750 An econometric analysis of fuel selection for power generation
Methane in the Pittsburgh coalbed, Washington	06 p0055 A75-24751
County, Pennsylvania [PB-237848/7] 06 p0089 N75-18760	The future of silicon solar cells for terrestrial use
DRUGS Industrial energy study of the drug manufacturing	Urban waste energy resources 06 p0058 A75-27717
industries for the Federal Energy	[AIAA PAPER 75-632] 06 p0062 A75-28598
Administration/US Department of Commerce (PB-238994/8] 07 p0142 N75-24130	Hydrogen production from solar energy 07 p0109 175-29477
DUCTED PLOW Pluctuations of electric power in MHD channels	<pre>Bnergy's hazy future electric generating capacity scenarios and forecasts</pre>
07 p0110 A75-30949	07 p0110 A75-31195
DYBABIC CHARACTERISTICS Fundamentals of automatic control of space nuclear power plants Russian book	Economic and technical aspects of wind generation systems 07 p0116 A75-34533
O6 p0048 A75-23229	The economics of coal-based synthetic gas 08 p0168 175-39925
Minimum cost solar thermal electric power systems - A dynamic programming based approach	Evaluation of focusing solar energy collectors 08 p0168 175-40300
DYNAMIC RESPONSE	Future hydrogen fueled commercial transports [SAE_PAPER 750615] 08 p0169 A75-40521
Dynamic response of solar heat storage systems	Economics of hydrogen energy systems
[ASME PAPER 74-WA/HT-22] 05 p0018 A75-16867	O8 p0172 A75-42285 The economics of liquid hydrogen supply for air transportation
E	08 p0173 A75-43978
Geothermal energy: A new application of rock	The technology and economies of hydrogen production from fusion reactors
Geothermal energy: A new application of rock mechanics [LA-UR-74-821] 06 p0068 N75-16089	The technology and economies of hydrogen production from fusion reactors 08 p0176 A75-A4767 An economic study of electrical peaking alternatives
BARTH CRUST Geothermal energy: A new application of rock mechanics [LA-UR-74-821] 06 p0068 N75-16089 BARTH MAHTLE Three-dimensional subsurface delineation via a	The technology and economies of hydrogen production from fusion reactors 08 p0176 A75-44767 An economic study of electrical peaking alternatives 08 p0179 A75-44799 Hydrogen - Mechanisms and strategies of market
Geothermal energy: A new application of rock mechanics [LA-UR-74-821] 06 p0068 N75-16089 EARTH MANTLE Three-dimensional subsurface delineation via a novel method for determining the subsurface electrical profile	The technology and economies of hydrogen production from fusion reactors 08 p0176 A75-44767 An economic study of electrical peaking alternatives 08 p0179 A75-44799 Hydrogen - Mechanisms and strategies of market penetration 08 p0180 A75-44811
Geothermal energy: A new application of rock mechanics [LA-UR-74-821] 06 p0068 N75-16089 BARTH HANTLE Three-dimensional subsurface delineation via a novel method for determining the subsurface electrical profile [UCRL-51685] 07 p0127 N75-21781 EARTH HOVEMENTS	The technology and economies of hydrogen production from fusion reactors 08 p0176 A75-44767 An economic study of electrical peaking alternatives 08 p0179 A75-44799 Hydrogen - Mechanisms and strategies of market penetration
Geothermal energy: A new application of rock mechanics [LA-UR-74-821] 06 p0068 N75-16089 EARTH MANTLE Three-dimensional subsurface delineation via a novel method fcr determining the subsurface electrical profile [UCRL-51685] 07 p0127 N75-21781 EARTH MOVEMENTS Heasuring ground movement in geothermal areas of	The technology and economies of hydrogen production from fusion reactors 08 p0176 A75-44767 An economic study of electrical peaking alternatives 08 p0179 A75-44799 Hydrogen - Mechanisms and strategies of market penetration 08 p0180 A75-44811 Report on studies of space to earth microwave power transmission systems [IAF PAPER 75-005] 08 p0183 A75-45814
Geothermal energy: A new application of rock mechanics [LA-UR-74-821] 06 p0068 N75-16089 BARTH MANTLE Three-dimensional subsurface delineation via a novel method fcr determining the subsurface electrical profile [UCRL-51685] 07 p0127 N75-21781 EARTH MOVEMENTS Measuring ground movement in geothermal areas of Imperial Valley, California 06 p0099 N75-20842	The technology and economies of hydrogen production from fusion reactors 08 p0176 A75-44767 An economic study of electrical peaking alternatives 08 p0179 A75-44799 Hydrogen - Mechanisms and strategies of market penetration 08 p0180 A75-44811 Report on studies of space to earth microwave power transmission systems [IAF PAPER 75-005] 08 p0183 A75-45814 Economic analysis of space-based electric power generation and transmission systems
Geothermal energy: A new application of rock mechanics [LA-UR-74-821] 06 p0068 N75-16089 BARTH HANTLE Three-dimensional subsurface delineation via a novel method for determining the subsurface electrical profile [UCRL-51685] 07 p0127 N75-21781 EARTH HOVEMENTS Measuring ground movement in geothermal areas of Imperial Valley, California 06 p0099 N75-20842 EARTH RESOURCES	The technology and economies of hydrogen production from fusion reactors 08 p0176 A75-44767 An economic study of electrical peaking alternatives 08 p0179 A75-44799 Hydrogen - Mechanisms and strategies of market penetration 08 p0180 A75-44811 Report on studies of space to earth microwave power transmission systems [IAP PAPER 75-005] 8 p0183 A75-45814 Economic analysis of space-based electric power generation and transmission systems [IAP PAPER 75-006] 08 p0183 A75-45829
Geothermal energy: A new application of rock mechanics [LA-UR-74-821] 06 p0068 N75-16089 BARTH MANTLE Three-dimensional subsurface delineation via a novel method for determining the subsurface electrical profile [UCRL-51685] 07 p0127 N75-21781 EABTH HOVEMENTS Measuring ground movement in geothermal areas of Imperial Valley, California 06 p0099 N75-20842 EABTH RESOURCES U.S. energy resources - Outlook for the future 05 p0014 A75-12999	The technology and economies of hydrogen production from fusion reactors 08 p0176 A75-44767 An economic study of electrical peaking alternatives 08 p0179 A75-44799 Hydrogen - Mechanisms and strategies of market penetration 08 p0180 A75-44811 Report on studies of space to earth microwave power transmission systems [IAP PAPER 75-005] 08 p0183 A75-45814 Economic analysis of space-based electric power generation and transmission systems [IAP PAPER 75-006] 08 p0183 A75-45829 Space and energy - Some legal problems extraterrestrial resources and solar energy
Geothermal energy: A new application of rock mechanics [LA-UR-74-821] 06 p0068 N75-16089 BARTH MAHTLE Three-dimensional subsurface delineation via a novel method for determining the subsurface electrical profile [UCRL-51685] 07 p0127 N75-21781 EABTH MOVEMENTS Measuring ground movement in geothermal areas of Imperial Valley, California BABTH RESOURCES U.S. energy resources - Outlook for the future 05 p0014 A75-12999 Solar energy in earth processes review 06 p0061 A75-28437	The technology and economies of hydrogen production from fusion reactors 08 p0176 A75-44767 An economic study of electrical peaking alternatives 08 p0179 A75-44799 Hydrogen - Mechanisms and strategies of market penetration 08 p0180 A75-44811 Report on studies of space to earth microwave power transmission systems [IAF PAPER 75-005] 08 p0183 A75-45814 Economic analysis of space-based electric power generation and transmission systems [IAF PAPER 75-006] 08 p0183 A75-45829 Space and energy - Some legal problems
Geothermal energy: A new application of rock mechanics [LA-UR-74-821] 06 p0068 N75-16089 BARTH MANTLE Three-dimensional subsurface delineation via a novel method for determining the subsurface electrical proffile [UCRL-51685] 07 p0127 N75-21781 EABTH MOVEMENTS Heasuring ground movement in geothermal areas of Imperial Valley, California EABTH RESOURCES U.S. energy resources - Outlook for the future 05 p0014 A75-12999 Solar energy in earth processes review 06 p0061 A75-28437 Utilization of solar energy an assessment of	The technology and economies of hydrogen production from fusion reactors 08 p0176 A75-44767 An economic study of electrical peaking alternatives 08 p0179 A75-44799 Hydrogen - Mechanisms and strategies of market penetration 08 p0180 A75-44811 Report on studies of space to earth microwave power transmission systems [IAF PAPER 75-005] 08 p0183 A75-45814 Economic analysis of space-based electric power generation and transmission systems [IAF PAPER 75-006] 08 p0183 A75-45829 Space and energy - Some legal problems extraterrestrial resources and solar energy exploitation 08 p0183 A75-45885 Technical and economic evaluation of solar heating
Geothermal energy: A new application of rock mechanics [LA-UR-74-821] 06 p0068 N75-16089 BARTH MAHTLE Three-dimensional subsurface delineation via a novel method for determining the subsurface electrical profile [UCRL-51685] 07 p0127 N75-21781 EARTH MOVEMENTS Measuring ground movement in geothermal areas of Imperial Valley, California EARTH RESOURCES U.S. energy resources - Outlook for the future 05 p0014 A75-12999 Solar energy in earth processes review 06 p0061 A75-28437 Utilization of solar energy an assessment of present technology [NASA-TT-F-16090] 05 p0033 N75-13382	The technology and economies of hydrogen production from fusion reactors 08 p0176 A75-44767 An economic study of electrical peaking alternatives 08 p0179 A75-44799 Hydrogen - Mechanisms and strategies of market penetration 08 p0180 A75-44811 Report on studies of space to earth microwave power transmission systems [IAF PAPER 75-005] BCONOMIC analysis of space-based electric power generation and transmission systems [IAF PAPER 75-006] Space and energy - Some legal problems extraterrestrial resources and solar energy exploitation 08 p0183 A75-45885 Technical and economic evaluation of solar heating and cooling of buildings
Geothermal energy: A new application of rock mechanics [LA-UR-74-821] 06 p0068 N75-16089 BARTH MANTLE Three-dimensional subsurface delineation via a novel method for determining the subsurface electrical profile [UCRL-51685] 07 p0127 N75-21781 EABTH MOVEMENTS Heasuring ground movement in geothermal areas of Imperial Valley, California EABTH RESOURCES U.S. energy resources - Outlook for the future 05 p0014 A75-12999 Solar energy in earth processes review 06 p0061 A75-28437 Utilization of solar energy an assessment of present technology [NASA-TT-F-16090] 05 p0033 N75-13382 Energy resources and utilization	The technology and economies of hydrogen production from fusion reactors 08 p0176 A75-44767 An economic study of electrical peaking alternatives 08 p0179 A75-44799 Hydrogen - Mechanisms and strategies of market penetration 08 p0180 A75-44811 Report on studies of space to earth microwave power transmission systems [IAF PAPER 75-005] 08 p0183 A75-45814 Economic analysis of space-based electric power generation and transmission systems [IAF PAPER 75-006] 08 p0183 A75-45829 Space and energy - Some legal problems extraterrestrial resources and solar energy exploitation 08 p0183 A75-45885 Technical and economic evaluation of solar heating and cooling of buildings 08 p0184 A75-45921 The economic incentive for introducing electric
Geothermal energy: A new application of rock mechanics [LA-UR-74-821] 06 p0068 N75-16089 BARTH MAHTLE Three-dimensional subsurface delineation via a novel method for determining the subsurface electrical profile [UCRL-51685] 07 p0127 N75-21781 EARTH MOVEMENTS Measuring ground movement in geothermal areas of Imperial Valley, California BARTH RESOURCES U.S. energy resources - Outlook for the future 05 p0014 A75-12999 Solar energy in earth processes review 06 p0061 A75-28437 Utilization of solar energy an assessment of present technology [NASA-TT-F-16090] 05 p0033 N75-13382 Energy resources and utilization 06 p0075 N75-16983 Assessment of uranium and thorium resources in the	The technology and economies of hydrogen production from fusion reactors 08 p0176 A75-44767 An economic study of electrical peaking alternatives 08 p0179 A75-44799 Hydrogen - Mechanisms and strategies of market penetration 08 p0180 A75-44811 Report on studies of space to earth microwave power transmission systems [IAP PAPER 75-005] 8 p0183 A75-45814 Economic analysis of space-based electric power generation and transmission systems [IAP PAPER 75-006] Space and energy - Some legal problems extraterrestrial resources and solar energy exploitation 08 p0183 A75-45829 Technical and economic evaluation of solar heating and cooling of buildings 08 p0184 A75-45921 The economic incentive for introducing electric storage devices into the national energy system 08 p0184 A75-45929
Geothermal energy: A new application of rock mechanics [LA-UR-74-821] 06 p0068 N75-16089 BARTH MANTLE Three-dimensional subsurface delineation via a novel method for determining the subsurface electrical profile [UCRL-51685] 07 p0127 N75-21781 EARTH MOVEMENTS Measuring ground movement in geothermal areas of Imperial Valley, California 06 p0099 N75-20842 EARTH RESOURCES U.S. energy resources - Outlook for the future 05 p0014 A75-12999 Solar energy in earth processes review 06 p0061 A75-28437 Utilization of solar energy an assessment of present technology [NASA-TT-F-16090] 05 p0033 N75-13382 Energy resources and utilization 06 p0075 N75-16983 Assessment of uranium and thorium resources in the United States and the effect of policy alternatives	The technology and economies of hydrogen production from fusion reactors 08 p0176 A75-44767 An economic study of electrical peaking alternatives 08 p0179 A75-44799 Hydrogen - Mechanisms and strategies of market penetration 08 p0180 A75-44811 Report on studies of space to earth microwave power transmission systems [IAP PAPER 75-005] 08 p0183 A75-45814 Economic analysis of space-based electric power generation and transmission systems [IAP PAPER 75-006] 08 p0183 A75-45829 Space and energy - Some legal problems extraterrestrial resources and solar energy exploitation 08 p0183 A75-45885 Technical and economic evaluation of solar heating and cooling of buildings 08 p0184 A75-45921 The economic incentive for introducing electric storage devices into the national energy system 08 p0184 A75-45929 Conceptual design and economics of an MHD pilot plant
Geothermal energy: A new application of rock mechanics [LA-UR-74-821] 06 p0068 N75-16089 BARTH MAHTLE Three-dimensional subsurface delineation via a novel method for determining the subsurface electrical profile [UCRL-51685] 07 p0127 N75-21781 EARTH MOVEMENTS Measuring ground movement in geothermal areas of Imperial Valley, California BARTH RESOURCES U.S. energy resources - Outlook for the future 05 p0014 A75-12999 Solar energy in earth processes review 06 p0061 A75-28437 Utilization of solar energy an assessment of present technology [NASA-TT-F-16090] 05 p0033 N75-13382 Energy resources and utilization Assessment of uranium and thorium resources in the United States and the effect of policy alternatives [PB-238658/9] 07 p0143 N75-24133	The technology and economies of hydrogen production from fusion reactors 08 p0176 A75-44767 An economic study of electrical peaking alternatives 08 p0179 A75-44799 Hydrogen - Bechanisms and strategies of market penetration 08 p0180 A75-44811 Report on studies of space to earth microwave power transmission systems [IAP PAPER 75-005] Beconomic analysis of space-based electric power generation and transmission systems [IAP PAPER 75-006] Space and energy - Some legal problems extraterrestrial resources and solar energy exploitation 08 p0183 A75-45829 Technical and economic evaluation of solar heating and cooling of buildings 08 p0184 A75-45921 The economic incentive for introducing electric storage devices into the national energy system 08 p0184 A75-45929 Conceptual design and economics of an BBD pilot plant
Geothermal energy: A new application of rock mechanics [LA-UR-74-821] 06 p0068 N75-16089 BARTH MAHTLE Three-dimensional subsurface delineation via a novel method for determining the subsurface electrical profile [UCRL-51685] 07 p0127 N75-21781 EARTH MOVEMENTS Measuring ground movement in geothermal areas of Imperial Valley, California 06 p0099 N75-20842 EABTH RESOURCES U.S. energy resources - Outlook for the future 05 p0014 A75-12999 Solar energy in earth processes review 06 p0061 A75-28437 Utilization of solar energy an assessment of present technology [NASA-TT-F-16090] 05 p0033 N75-13382 Energy resources and utilization 06 p0075 N75-16983 Assessment of uranium and thorium resources in the United States and the effect of policy alternatives [PB-238658/9] 07 p0143 N75-24133 National materials policy earth resources	The technology and economies of hydrogen production from fusion reactors 08 p0176 A75-44767 An economic study of electrical peaking alternatives 08 p0179 A75-44799 Hydrogen - Mechanisms and strategies of market penetration 08 p0180 A75-44811 Report on studies of space to earth microwave power transmission systems [IAF PAPER 75-005] Conomic analysis of space-based electric power generation and transmission systems [IAF PAPER 75-006] Space and energy - Some legal problems extraterrestrial resources and solar energy exploitation 08 p0183 A75-45829 Technical and economic evaluation of solar heating and cooling of buildings 08 p0184 A75-45921 The economic incentive for introducing electric storage devices into the national energy system 08 p0184 A75-45929 Conceptual design and economics of an MHD pilot plant 08 p0189 A75-45974 The economics of the production of liquid fuel and fertilizer by the fixation of atmospheric carbon
Geothermal energy: A new application of rock mechanics [LA-UR-74-821] 06 p0068 N75-16089 BARTH MAHTLE Three-dimensional subsurface delineation via a novel method for determining the subsurface electrical profile [UCRL-51685] 07 p0127 N75-21781 EARTH MOVEMENTS Measuring ground movement in geothermal areas of Imperial Valley, California 66 p0099 N75-20842 EARTH RESOURCES U.S. energy resources - Outlook for the future 05 p0014 A75-12999 Solar energy in earth processes review 06 p0061 A75-28437 Utilization of solar energy an assessment of present technology [NASA-TT-F-16090] 05 p0033 N75-13382 Energy resources and utilization 06 p0075 N75-16983 Assessment of uranium and thorium resources in the United States and the effect of policy alternatives [PB-238658/9] 07 p0143 N75-24133 National materials policy earth resources management [PB-240941/5] 08 p0199 N75-28503	The technology and economies of hydrogen production from fusion reactors 08 p0176 A75-44767 An economic study of electrical peaking alternatives 08 p0179 A75-44799 Hydrogen - Bechanisms and strategies of market penetration 08 p0180 A75-44811 Report on studies of space to earth microwave power transmission systems [IAP PAPER 75-005] 8 p0183 A75-45814 Economic analysis of space-based electric power generation and transmission systems [IAP PAPER 75-006] Space and energy - Some legal problems extraterrestrial resources and solar energy exploitation 08 p0183 A75-45829 Technical and economic evaluation of solar heating and cooling of buildings 08 p0184 A75-45921 The economic incentive for introducing electric storage devices into the national energy system 08 p0184 A75-45929 Conceptual design and economics of an MHD pilot plant 08 p0189 A75-45974 The economics of the production of liquid fuel and fertilizer by the fixation of atmospheric carbon and nitrogen using nuclear power
Geothermal energy: A new application of rock mechanics [LA-UR-74-821] 06 p0068 N75-16089 BARTH MAHTLE Three-dimensional subsurface delineation via a novel method for determining the subsurface electrical profile [UCRL-51685] 07 p0127 N75-21781 EARTH MOVEMENTS Measuring ground movement in geothermal areas of Imperial Valley, California 66 p0099 N75-20842 EARTH RESOURCES U.S. energy resources - Outlook for the future 05 p0014 A75-12999 Solar energy in earth processes review 06 p0061 A75-28437 Utilization of solar energy an assessment of present technology [NASA-TT-F-16090] 05 p0033 N75-13382 Energy resources and utilization 06 p0075 N75-16983 Assessment of uranium and thorium resources in the United States and the effect of policy alternatives [PB-238658/9] 07 p0143 N75-24133 National materials policy earth resources management [PB-240941/5] 08 p0199 N75-28503 Uranium resources to meet long term uranium requirements [PB-239515/0] 08 p0199 N75-28508	The technology and economies of hydrogen production from fusion reactors 08 p0176 A75-44767 An economic study of electrical peaking alternatives 08 p0179 A75-44799 Hydrogen - Bechanisms and strategies of market penetration 08 p0180 A75-44811 Report on studies of space to earth microwave power transmission systems [IAP PAPER 75-005] 8 p0183 A75-45814 Economic analysis of space-based electric power generation and transmission systems [IAP PAPER 75-006] Space and energy - Some legal problems extraterrestrial resources and solar energy exploitation 08 p0183 A75-45829 Space and energy - Some legal problems extraterrestrial resources and solar heating and cooling of buildings 08 p0184 A75-45885 Technical and economic evaluation of solar heating and cooling of buildings 08 p0184 A75-45921 The economic incentive for introducing electric storage devices into the national energy system 08 p0184 A75-45929 Conceptual design and economics of an BBD pilot plant 08 p0189 A75-45974 The economics of the production of liquid fuel and fertilizer by the fixation of atmospheric carbon and nitrogen using nuclear power 08 p0191 A75-46001 The economics of using wind power for electricity supply in the Netherlands and for water supply
Geothermal energy: A new application of rock mechanics [LA-UR-74-821] 06 p0068 N75-16089 BARTH MAHTLE Three-dimensional subsurface delineation via a novel method for determining the subsurface electrical profile [UCRL-51685] 07 p0127 N75-21781 EARTH MOVEMENTS Measuring ground movement in geothermal areas of Imperial Valley, California EARTH RESOURCES U.S. energy resources - Outlook for the future 05 p0014 A75-12999 Solar energy in earth processes review 06 p0061 A75-28437 Utilization of solar energy an assessment of present technology [NASA-TT-7-16090] 05 p0033 N75-13382 Energy resources and utilization 06 p0075 N75-16983 Assessment of uranium and thorium resources in the United States and the effect of policy alternatives [PB-238658/9] 07 p0143 N75-24133 National materials policy earth resources management [PB-240941/5] 08 p0199 N75-28503 Uranium resources to meet long term uranium requirements [PB-239515/0] EARTH SURPACE	The technology and economies of hydrogen production from fusion reactors 08 p0176 A75-44767 An economic study of electrical peaking alternatives 08 p0179 A75-44799 Hydrogen - Mechanisms and strategies of market penetration 08 p0180 A75-44811 Report on studies of space to earth microwave power transmission systems [IAF PAPER 75-005] Conomic analysis of space-based electric power generation and transmission systems [IAF PAPER 75-006] Space and energy - Some legal problems extraterrestrial resources and solar energy exploitation 08 p0183 A75-45829 Space and energy - Some legal problems extraterrestrial resources and solar heating and cooling of buildings 08 p0184 A75-45885 Technical and economic evaluation of solar heating and cooling of buildings 08 p0184 A75-45921 The economic incentive for introducing electric storage devices into the national energy system 08 p0184 A75-45929 Conceptual design and economics of an HHD pilot plant 08 p0189 A75-45974 The economics of the production of liquid fuel and fertilizer by the fixation of atmospheric carbon and nitrogen using nuclear power 08 p0191 A75-46001 The economics of using wind power for electricity supply in the Netherlands and for water supply on Curacao
Geothermal energy: A new application of rock mechanics [LA-UR-74-821] 06 p0068 N75-16089 BARTH MAHTLE Three-dimensional subsurface delineation via a novel method for determining the subsurface electrical profile [UCRL-51685] 07 p0127 N75-21781 EMBITE MOVEMENTS Measuring ground movement in geothermal areas of Imperial Valley, California BABTH RESOURCES U.S. energy resources - Outlook for the future 05 p0014 A75-12999 Solar energy in earth processes review 06 p0061 A75-28437 Utilization of solar energy an assessment of present technology [NASA-TT-P-16090] 05 p0033 N75-13382 Energy resources and utilization 06 p0075 N75-16983 Assessment of uranium and thorium resources in the United States and the effect of policy alternatives [PB-238658/9] 07 p0143 N75-24133 National materials policy earth resources management [PB-240941/5] 08 p0199 N75-28503 Uranium resources to meet long term uranium requirements [PB-239515/0] 08 p0199 N75-28508 EARTH SURPACE Prospect for geothermal power [LA-UR-74-1111] 06 p0086 N75-18723	The technology and economies of hydrogen production from fusion reactors 08 p0176 A75-44767 An economic study of electrical peaking alternatives 08 p0179 A75-44799 Hydrogen - Mechanisms and strategies of market penetration 08 p0180 A75-44811 Report on studies of space to earth microwave power transmission systems [IAP PAPER 75-005] 8 p0183 A75-45814 Economic analysis of space-based electric power generation and transmission systems [IAP PAPER 75-006] Space and energy - Some legal problems extraterrestrial resources and solar energy exploitation 08 p0183 A75-45829 Space and energy - Some legal problems extraterrestrial resources and solar heating and cooling of buildings 08 p0184 A75-45885 Technical and economic evaluation of solar heating and cooling of buildings 08 p0184 A75-45921 The economic incentive for introducing electric storage devices into the national energy system 08 p0184 A75-45929 Conceptual design and economics of an MHD pilot plant 08 p0189 A75-45974 The economics of the production of liquid fuel and fertilizer by the fixation of atmospheric carbon and nitrogen using nuclear power 08 p0191 A75-46001 The economics of using wind power for electricity supply in the Metherlands and for water supply on Curacao [MSA-TT-P-15982] 05 p0024 M75-10587 Primary data on economic activity and water use in
Geothermal energy: A new application of rock mechanics [LA-UR-74-821] 06 p0068 N75-16089 BARTH MAHTLE Three-dimensional subsurface delineation via a novel method for determining the subsurface electrical profile [UCRL-51685] 07 p0127 N75-21781 EARTH MOVEMENTS Measuring ground movement in geothermal areas of Imperial Valley, California O6 p0099 N75-20842 EARTH RESOURCES U.S. energy resources - Outlook for the future 05 p0014 A75-12999 Solar energy in earth processes review 06 p0061 A75-28437 Utilization of solar energy an assessment of present technology [NASA-TT-P-16090] 05 p0033 N75-13382 Energy resources and utilization 06 p0075 N75-16983 Assessment of uranium and thorium resources in the United States and the effect of policy alternatives [PB-238658/9] 07 p0143 N75-24133 National materials policy earth resources management [PB-240941/5] 08 p0199 N75-28503 Uranium resources to meet long term uranium requirements [PB-239515/0] 08 p0199 N75-28508 EARTH SURPACE Prospect for geothermal power [LA-UR-74-1111] 06 p0086 N75-18723 Relationships of earth fracture systems to productivity of a gas storage reservoir	The technology and economies of hydrogen production from fusion reactors 08 p0176 A75-44767 An economic study of electrical peaking alternatives 08 p0179 A75-44799 Hydrogen - Mechanisms and strategies of market penetration 08 p0180 A75-44811 Report on studies of space to earth microwave power transmission systems [IAF PAPER 75-005] Conomic analysis of space-based electric power generation and transmission systems [IAF PAPER 75-006] Space and energy - Some legal problems extraterrestrial resources and solar energy exploitation 08 p0183 A75-45829 Technical and economic evaluation of solar heating and cooling of buildings 08 p0184 A75-45921 The economic incentive for introducing electric storage devices into the national energy system 08 p0184 A75-45929 Conceptual design and economics of an MHD pilot plant 08 p0189 A75-45974 The economics of the production of liquid fuel and fertilizer by the fixation of atmospheric carbon and nitrogen using nuclear power 08 p0191 A75-46001 The economics of using wind power for electricity supply in the Netherlands and for water supply on Curacao [NASA-TT-P-15982] 05 p0024 N75-10587
Geothermal energy: A new application of rock mechanics [LA-UR-74-821] 06 p0068 N75-16089 BARTH MAHTLE Three-dimensional subsurface delineation via a novel method for determining the subsurface electrical profile [UCRL-51685] 07 p0127 N75-21781 EMRIH MOVEMENTS Measuring ground movement in geothermal areas of Imperial Valley, California Chapter of p0099 N75-20842 BABTH RESOURCES U.S. energy resources - Outlook for the future 05 p0014 A75-12999 Solar energy in earth processes review 06 p0061 A75-28437 Utilization of solar energy an assessment of present technology [NASA-TT-P-16090] 05 p0033 N75-13382 Energy resources and utilization 06 p0075 N75-16983 Assessment of uranium and thorium resources in the United States and the effect of policy alternatives [PB-238658/9] 07 p0143 N75-24133 National materials policy earth resources management [PB-240941/5] 08 p0199 N75-28503 Uranium resources to meet long term uranium reguirements [PB-239515/0] 08 p0199 N75-28508 EARTH SURPACE Prospect for geothermal power [LA-UR-74-1111] Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] 06 p0089 N75-18759	The technology and economies of hydrogen production from fusion reactors 08 p0176 A75-44767 An economic study of electrical peaking alternatives 08 p0179 A75-44799 Hydrogen - Bechanisms and strategies of market penetration 08 p0180 A75-44811 Report on studies of space to earth microwave power transmission systems [IAP PAPER 75-005] 8 p0183 A75-45814 Economic analysis of space-based electric power generation and transmission systems [IAP PAPER 75-006] Space and energy - Some legal problems extraterrestrial resources and solar energy exploitation 08 p0183 A75-45829 Space and energy - Some legal problems extraterrestrial resources and solar energy exploitation 08 p0183 A75-45885 Technical and economic evaluation of solar heating and cooling of buildings 08 p0184 A75-45921 The economic incentive for introducing electric storage devices into the national energy system 08 p0184 A75-45929 Conceptual design and economics of an BHD pilot plant 08 p0189 A75-45974 The economics of the production of liquid fuel and fertilizer by the fixation of atmospheric carbon and nitrogen using nuclear power 08 p0191 A75-46001 The economics of using wind power for electricity supply in the Netherlands and for water supply on Curacao [NASA-TT-P-15982] 05 p0024 N75-10587 Primary data on economic activity and water use in prototype oil shale development areas of Colorado: An initial inquiry [PB-236039/4] 05 p0037 N75-14277
Geothermal energy: A new application of rock mechanics [LA-UR-74-821] 06 p0068 N75-16089 BARTH MAHTLE Three-dimensional subsurface delineation via a novel method for determining the subsurface electrical profile [UCRL-51685] 07 p0127 N75-21781 EARTH MOVEMENTS Measuring ground movement in geothermal areas of Imperial Valley, California O6 p0099 N75-20842 EABTH RESOURCES U.S. energy resources - Outlook for the future 05 p0014 A75-12999 Solar energy in earth processes review 06 p0061 A75-28437 Utilization of solar energy an assessment of present technology [NASA-TT-P-16090] 05 p0033 N75-13382 Energy resources and utilization 06 p0075 N75-16983 Assessment of uranium and thorium resources in the United States and the effect of policy alternatives [PB-238658/9] 07 p0143 N75-24133 National materials policy earth resources management [PB-240941/5] 08 p0199 N75-28503 Uranium resources to meet long term uranium requirements [PB-237894/1] 08 p0199 N75-28508 EARTH SURPACE Prospect for geothermal power [LA-UR-74-1111] 06 p0086 N75-18723 Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] 706 p0089 N75-18759 ECOLOGY Environmental impact of a geothermal power plant	The technology and economies of hydrogen production from fusion reactors 08 p0176 A75-44767 An economic study of electrical peaking alternatives 08 p0179 A75-44799 Hydrogen - Mechanisms and strategies of market penetration 08 p0180 A75-44811 Report on studies of space to earth microwave power transmission systems [IAP PAPER 75-005] 8 p0183 A75-45814 Economic analysis of space-based electric power generation and transmission systems [IAP PAPER 75-006] 9 po183 A75-45829 Space and energy - Some legal problemsextraterrestrial resources and solar energy exploitation 08 p0183 A75-45829 Technical and economic evaluation of solar heating and cooling of buildings 08 p0184 A75-45885 Technical and economic evaluation of solar heating and cooling of buildings 08 p0184 A75-45921 The economic incentive for introducing electric storage devices into the national energy system 08 p0184 A75-45929 Conceptual design and economics of an MHD pilot plant 08 p0189 A75-45974 The economics of the production of liquid fuel and fertilizer by the firation of atmospheric carbon and nitrogen using nuclear power 08 p0181 A75-46001 The economics of using wind power for electricity supply in the Netherlands and for water supply on Curacao [MASA-TT-P-15982] Primary data on economic activity and water use in prototype oil shale development areas of Colorado: An initial inquiry [PB-236039/4] Total energy supply and demand, volume 1, chapter 6 natural gas, economic analysis
Geothermal energy: A new application of rock mechanics [LA-UR-74-821] 06 p0068 N75-16089 BARTH MANTLE Three-dimensional subsurface delineation via a novel method for determining the subsurface electrical profile [UCRL-51685] 07 p0127 N75-21781 EARTH MOVEMENTS Measuring ground movement in geothermal areas of Imperial Valley, California EARTH RESOURCES U.S. energy resources - Outlook for the future 05 p0014 A75-12999 Solar energy in earth processes review 06 p0061 A75-28437 Utilization of solar energy an assessment of present technology [NASA-TT-7-16090] 05 p0033 N75-13382 Energy resources and utilization 06 p0075 N75-16983 Assessment of uranium and thorium resources in the United States and the effect of policy alternatives [PB-238658/9] 07 p0143 N75-24133 National materials policy earth resources management [PB-240941/5] 08 p0199 N75-28503 Uranium resources to meet long term uranium requirements [PB-239515/0] 08 p0199 N75-28508 EARTH SURPACE Prospect for geothermal power [LA-UR-74-1111] 06 p0086 N75-18723 Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] 06 p0089 N75-18759 ECOLOGY	The technology and economies of hydrogen production from fusion reactors 08 p0176 A75-44767 An economic study of electrical peaking alternatives 08 p0179 A75-44799 Hydrogen - Mechanisms and strategies of market penetration 08 p0180 A75-44811 Report on studies of space to earth microwave power transmission systems [IAF PAPER 75-005] Conomic analysis of space-based electric power generation and transmission systems [IAF PAPER 75-006] Space and energy - Some legal problems extraterrestrial resources and solar energy exploitation 08 p0183 A75-45829 Space and energy - Some legal problems extraterrestrial resources and solar heating and cooling of buildings 08 p0184 A75-45885 Technical and economic evaluation of solar heating and cooling of buildings 08 p0184 A75-45921 The economic incentive for introducing electric storage devices into the national energy system 08 p0184 A75-45929 Conceptual design and economics of an HHD pilot plant 08 p0189 A75-45974 The economics of the production of liquid fuel and fertilizer by the fixation of atmospheric carbon and nitrogen using nuclear power 08 p0191 A75-46001 The economics of using wind power for electricity supply in the Netherlands and for water supply on Curacao [NASA-TT-P-15982] Primary data on economic activity and water use in prototype oil shale development areas of Colorado: An initial inquiry [PB-236039/4] Total energy supply and demand, volume 1, chapter 6

SUBJECT INDEX BLECTRIC BATTERIES

	· .
Legal economic, and energy considerations in the	Economic radioisotope thermoelectric generator
use of underground space	study program: Appendices.
[PB-236755/5] 06 p0080 N75-17749 US energy R and D policy: The role of economics	[IESD-3112-2] 05 p0036 H75-14270 Prospective regional markets for coal conversion
[RPF-WORKING-PAPER-EN-4] 06 p0080 N75-17783	plant products projected to 1980 and 1985.
Economic and system aspects of a superconducting	Volume 2: Current and projected demand, supply
magnetic energy storage device and a dc	and price of energy in the United States
superconducting transmission line [LA-UR-74-1145] 06 p0091 N75-19080	[PB-236632/6] 06 p0078 N75-17007 Prospective regional markets for coal conversion
An economic analysis of oil shale operations	plant products projected to 1980 and 1985.
featuring gas combustion retorting	Volume 3: Current and projected demand, supply
[PB-237851/1] 06 p0093 N75-19813	and price of energy in the United States,
Fuel gas production from solid waste [PB-238068/1] 06 p0095 N75-19843	schedules [PB-236633/4] 06 p0078 N75-17008
Dependence of the United States on essential	Economic modeling and energy policy planning
imported materials, year 2000; volume 1	technology transfer, market research
, [AD-A000842] 06 p0096 N75-20157 Dependence of the United States on essential	06 p0079 N75-17210
imported materials, year 2000. Volume 2:	The effect of recent energy price increases on field crop production costs
Appendices	[PB-238659/7] 06 p0107 N75-21155
[AD-A000843] 06 p0096 N75-20158	Economic impact on the free world of the oil
Nuclear reactor process heat capabilities, potential, and economics	crisis, October 1973 - March 1974 [AD-A003136] 06 p0107 N75-21156
[CONF-741032-1] 07 p0131 k75-22112	Impact of future use of electric cars in the Los
The economics of energy and natural resource pricing	Angeles region. Volume 1: Executive summary
[GPO-48-071] 07 p0141 N75-24115	and technical report [PB-238877/5] 07 p0131 N75-22199
Demonstration plant, clean boiler fuels from coal. Volume 3: Preliminary design/economics analysis	[PB-238877/5] 07 p0131 N75-22199 Survey study of the efficiency and economics of
[PB-238529/2] 07 p0142 N75-24127	hydrogen liquefaction
Economic system analysis of coal preconversion	[NASA-CR-132631] 07 p0133 N75-22486
technology [PB-239383/3] 07 p0151 N75-25325	Insufficient utilization of scientific advances sociopolitical and economic management of
Commerce today, volume 5, number 10 a	technological development
discussion of international trade, economics,	07 p0137 N75-23365
and energy conservation [COM-74-50944/10] 07 p0152 N75-25775	The long term energy problem and aeronautics
[COM-74-50944/10] 07 p0152 N75-25775 The problem of peak load pricing subject to rate	The MCL-Thurow model supplement
of return constraint	[PB-241113/0] 08 p0204 N75-29952
[PB-239765] 07 p0163 N75-27964	Economic impact of shortages on the fertilizer
CONONIC DEVELOPMENT Advanced subsonic transports - A challenge for the	industry [PB-240418/4] 08 p0204 N75-29953
1990's	Benefit-cost methodology study with example
[AIAA PAPER 75-304] 06 p0049 A75-23251	application of the use of wind generators
Energy: A plan for action Book 07 p0110 A75-30375	[NASA-CR-134864] 08 p0207 H75-31571 Plausibility of a restricted energy use scenario
Interfuel substitution in the consumption of	[COM-75-10749/0] 08 p0213 N75-33507
energy in the United States. Part 1:	The economic impact of an interruption in United
Residential and commercial sector [PB-234536/1] 05 p0040 N75-15178	States petroleum imports: 1975 - 2000
[PB-234536/1] 05 p0040 N75-15178 The USA: The scientific and technical revolution	[AD-A010914] 08 p0214 H75-33931 The economics of the natural gas shortage
and trends in foreign policy	(1960-1980)
[NASA-TT-F-16102] 06 p0096 N75-20160	[PB-242166/7] 08 p0214 H75-33932
Regional economics: A subset of simulation of the effects of coal-fired power development in the	BCONOMICS NSF-RANN energy abstracts. A monthly abstract
four corners region	journal of energy research, volume 2, no. 4
06 p0107 H75-21153	[ORNL-EIS-74-52-VOL-2-4] 05 p0029 N75-11469
An overview of alternative energy sources for LDCs [PB-239465/8] 08 p0200 B75-28529	Materials and the new dimensions of conflict, revised version
CONONIC FACTORS	[AD-A004263] 07 p0154 N75-26499
The economics of nuclear power	BDUCATION
06 p0047 A75-22734 A commentary on solar energy	Effects of energy crisis on education, 1974 [GPO-27-765] 05 p0026 N75-10850
07 p0116 A75-34532	EDUCATIONAL TELEVISION
The fuel scene and its impact on the economics of	Cost competitiveness of a solar cell array power
airline operations 08 p0165 A75-39018	source for ATS-6 educational TV terminal [NASA-TH-X-71720] 07 p0140 N75-24110
Buclear water splitting and high temperature	[NASA-TH-X-71720] 07 p0140 N75-24110 RFFICIBHCY
reactors	Summary of high efficiency silicon solar cell
08 p0175 A75-44757	meeting held at WASA-Levis
Social and environmental context of the hydrogen economy	[NASA-TH-X-71729] 07 p0138 H75-23681 BFFLUERTS
08 p0179 A75-44807	The identification of gamma-valerolactone in waste
Technical problems facing the hydrogen economy	from an oil-shale in situ retort
08 p0180 A75-44812 The hydrogen economy and the law	determination of chemical composition by mass spectroscopy of effluents from crude oil shales
08 p0180 A75-44813	causing water pollution
A technology assessment of the hydrogen economy	[PB-240098/4] 07 p0147 H75-24852
COncept 08 p0194 A75-46037	ELECTRIC BATTERIES Enthanol/air scidic fool coll system
Blimination of duty on methanol imported for	Methanol/air acidic fuel cell system 05 p0008 &75-10566
certain uses	Batteries and fuel cells in the electrical
[H-REPT-93-998] 05 p0026 N75-10857	generating industry
Bconomic radioisotope thermoelectric generator program: Program plan	08 p0166 175-39198 The practical lithium/poly-carbonmonofluoride
[IBSD-3112-3] 05 p0034 H75-13393	battery system
Bconomic radioisotope thermoelectric generator	08 p0188 A75-45964
study program [IBSD-3112-1] 05 p0036 H75-14269	An intercell heat pipe for fuel cell and battery cooling
C	[AD-782888] 05 p0027 H75-11226
,	•

i

```
Lead accumulator batteries in telecommunications
                                                                                            Superconducting synchronous machine
     [BLL-TRANS-2943-(9022.81)] 06 p0074 R75-16967 
High energy battery program at Argonne National
                                                                                                                                           06 p0061 A75-27967
                                                                                            Design and testing of an energy flywheel for an Integrated Power/Attitude Control System /IPACS/ [AIAA PAPER 75-1107] 08 p0171 A75-41669
        Laboratory
     [ANL-8064] 06 p0076 N75-16984
Development of lithium/sulfur cells for
                                                                                        ELECTRIC GENERATORS
       application to electric automobiles [CONF-740805-7]
                                                                                            Solar farms utilizing low-pressure closed-cycle
                                                    06 p0094 N75-19829
                                                                                               gas turbines
     Impact of future use of electric cars in the Los
                                                                                                                                           05 p0003 A75-10514
                                                                                            Evaluation of central solar tower power plant
05 p0003 A75-10515
        Angeles region. Volume 1: Executive summary
       and technical report [PB-238877/5]
                                                     07 p0131 N75-22199
                                                                                            A prototype solar powered, Rankine Cycle system providing residential air conditioning and electricity
     Impact of future use of electric cars in the Los
        Angeles region. Volume 2: Task reports on
        electric car characterization and baseline
       projections
[PB-238878/3]
                                                                                            Report on progress in achieving direct conversion of a major fraction of sonic flow kinetic power into electrical power by electrofluid dynamic
     [PB-238878/3] 07 p0131 N75-22200 Impact of future use of electric cars in the Los
        Angeles region. Volume 3: Task reports on
                                                                                               /EFD/ processes
       impact and usage analysis [PB-238879/1]
                                                                                            05 p0009 A75-10576
Prospects and scientific problems of the
utilization of methods of direct electric power
                                                     07 p0131 N75-22201
BLECTRIC COILS
     A high-speed superconducting generator
                                                                                               generation from chemical fuels /fuel cells/
                                                     06 p0060 A75-27960
                                                                                                                                           05 p0012 A75-12911
                                                                                            Utilization of solar energy today
 RESCRIC DISCHARGES
     Empirical method of designing the current-voltage
                                                                                                                                           05 p0012 A75-12987
        characteristics for the discharge mode of a
                                                                                            Pumped air storage for electric power generation
        thermionic converter
                                                                                                                                           05 p0013 A75-12990
                                                                                            The impact of advanced batteries on electric power
                                                     06 p0057 A75-26332
BLECTRIC ENERGY STORAGE
                                                                                              generation
     The impact of advanced batteries on electric power
                                                                                           05 p0013 A75-12991 Tidal power and its integration into the electric
       generation
                                                     05 p0013 A75-12991
                                                                                              system
                                                                                            05 p0013 A75-12994 Windpower - Look backward, then move forward confidently --- for electric power generation in rural areas
     performance of heat pumps using cold-side energy
       storage and unconventional heat sources
[ASME PAPER 74-WA/HT-17] 05 p0017 A75-16863
    will superconducting magnetic energy storage be
used on electric utility systems
                                                                                              rural areas
                                                                                                                                           05 p0014 A75-12997
                                                    06 p0056 A75-25832
                                                                                            A comparison of methods for electric power
    Storing electrical energy on a large scale
08 p0165 175-38864
                                                                                              generation from geothermal hot water deposits
[ASME PAPER 74-WA/ENER-10] 05 p0016 A75-16841
                                                                                            Power from ocean waves
[ASME PAPER 74-WA/PWR-5]
     Batteries and fuel cells in the electrical
        generating industry
                                                                                                                                           05 p0018 A75-16879
                                                                                            Wind energy developments in the 20th century
05 p0020 A75-17503
Material considerations involved in solar energy
                                                     08 p0166 A75-39198
    Design and testing of an energy flywheel for an Integrated Power/Attitude Control System /IPACS/ [AIRA PAPER 75-1107] 08 p0171 A75-41669
    [ATAA PAPER 75-1107] 08 p0171 A75-41
An engineering-scale energy storage reservoir of
iron titanium hydride --- hydrogen-based energy
                                                                                              conversion
                                                                                                                                           06 p0047 A75-22522
                                                                                            A superconducting microwave engine
                                                                                                                                          06 p0056 A75-25831
                                                    08 p0177 A75-44784
                                                                                           Pundamental research on the selection of new
    On the role of hydrogen in electric energy storage 08 p0178 175-44797
                                                                                              electrochemical generators of medium power
                                                                                                                                          06 p0060 A75-27827
    An MHD energy storage system comprising a
                                                                                           A high-speed superconducting generator
       heavy-water producing electrolysis plant and a H2/02/CSOH MHD generator/steam turbine combination to provide a means of transferring nuclear reactor energy from the base-load regime into the intermediate-load and peaking regimes 08 p0179 A75-44800
                                                                                                                                           06 p0060 A75-27960
                                                                                           Superconductive d.c. generator
                                                                                                                                          06 p0061 A75-27961
                                                                                           Main problems met in the study of cryogenic
                                                                                              generators
                                                                                                                                           06 p0061 A75-27962
    Electrochemical heat engines for direct electric
                                                                                           Solar electric and thermal conversion system in
    power generation and energy storage
[AIRA PAPER 75-1237] 08 p0182 A75-1
The economic incentive for introducing electric
                                                                                              close proximity to the consumer --- solar panels
                                                    08 p0182 A75-45649
                                                                                              on house roofs
                                                                                              [AIAA PAPBR 75-628]
                                                                                                                                          06 p0062 A75-28597
       storage devices into the national energy system
08 p0184 A75-45929
                                                                                           Generation of electric power at high reliability
    Energy storage by high-pressure,
moderate-temperature electrolytic techniques
08 p0185 A75-45931
                                                                                              levels using a group of solar power plants in an
                                                                                              energy system
                                                                                                                                          07 p0122 A75-37159
                                                                                           Airborne windmills - Energy source for
    The selection and use of energy storage for solar
                                                                                             communication aerostats
[AIAA PAPER 75-923]
                                                                                           Generation of power from the wind --- windmill electric generator
       thermal electric application
                                                    08 p0189 A75-45980
    DCTH power supply and energy storage review meeting [WASH-1310] 05 p0031 N75-12445
                                                                                              electric generators
                                                                                           08 p0167 A75-39365
Hydrogen-energy storage for electrical utility
       [WASH-1310]
Cost and size estimates for an electrochemical bulk energy storage concept [NASA-TH-X-3192] 05 p0039 N75-19 ELECTRIC RQUIPHERT TESTS
Performance testing of thermoelectric generators
                                                                                              systems
                                                                                                                                          08 p0178 A75-44798
                                                    05 p0039 N75-15161
                                                                                           Solar residential electrification with high performance heat engines
[AIAA PAPER 75-1239] 08 p0182 i
       at JPL
                                                                                                                                          08 p0182 A75-45651
    05 p0002 A75-10503
SNAP 19 Viking RTG flight configuration and
integration testing --- Radioisotope
Thermoelectric Generator
                                                                                           Solar One, two years experience --- prototype home thermal and electrical system
                                                                                                                                          08 p0184 A75-45922
                                                                                           Advanced heat transfer methods for geothermal
                                                    05 p0003 A75-10504
                                                                                             power applications
                                                                                                                                          08 p0185 A75-45934
    Operational testing of the high performance
       thermoelectric generator /HPG-02/
```

05 p0003 A75-10505

SUBJECT INDEX BLECTRIC POWER PLANTS

Design study for a coal-fueled closed cycle gas turbine system for MIUS applications --- Hodular Integrated Utility System 08 p0187 A75-45948 The growth of thermionic energy conversion 08 p0187 A75-45954 Concentrated photovoltaic power generation systems 08 p0188 A75-45963 Study of an electrofluidic generator 08 p0189 A75-45978 Electrical generation by wind power 08 p0193 A75-46024 projections Standardized wind electric power unit 05 p0025 N75-10598 [AD-783764] Effective utilization of solar energy to produce clean fuel [PB-233956/2] 05 p0026 N75-10605 Effect of gas turbine efficiency and fuel cost on cost of producing electric power
[PB-234159/2] 05 p0034 N75-13: 05 p0034 N75-13397 Efficiencies in power generation [PB-234160/0] BLECTRIC POWER PLANTS 05 p0034 N75-13398 Radioisotope space power generator [GA-A-12848] 05 p0038 N75-14832 Pollution-free electrochemical power generation possibilities from low grade coal [PB-236162/4] 06 p0070 N75-16109 Energy conversion from coal utilizing CPU-400 technology [PB-237028/6] 06 p0083 N75-17828 Electric power generation using geothermal brine resources for a groof of concept facility utility use 06 p0101 N75-20857 Results of work on thermoemission of [AD-A002655] O'Electric power for space satellites [NASA-TH-I-66808] conversion 07 p0131 N75-22114 07 p0137 N75-23678 Electric power generation utilizing a heat pipe turbine-generator 07 p0139 N75-24096 Solar energy for process steam generation 07 p0145 N75-24154 [PB-238109/3] [PB-236109/3] 07 p0145 N/5-24154
Study on electrofluid dynamic power generation
[AD-A004762] 07 p0155 N75-26507
Research applied to solar thermal power systems
[PB-241090/0] 08 p0201 N75-28544 Electric power generation system directory from laser power [NASA-CASE-NPO-13308-1] 08 p0204 N75-30524 Technology survey of electrical power generation and distribution for NIUS application
[NASA-TM-X-58127] 08 p0207 N75-3 systems 08 p0207 N75-31573 BLECTRIC HOTORS Impact of future use of electric cars in the Los Angeles region. Volume 1: Executive summary and technical report [PB-238877/5] 07 p0131 N75-22199 Impact of future use of electric cars in the Los Angeles region. Volume 2: Task reports on electric car characterization and baseline performance projections 07 p0131 N75-22200 [PB-238878/3] Impact of future use of electric cars in the Los Angeles region. Volume 3: Task reports on impact and usage analysis [PB-238879/1] 07 p0131 N75-22201 RLECTRIC POWER Space power systems - Retrospect and prospect
[IMF PAPER 74-082] 05 p0014 A75-13714
Energy's hazy future --- electric generating concentrators capacity scenarios and forecasts system 07 p0110 A75-31195 Effect of impurity doping concentration on solar cell output 07 p0124 A75-37404 Multimegawatt fuel cell power system 07 p0124 A75-37656 Satellites for energy transmission to earth -Technical and socioeconomic studies Reactor 07 p0125 A75-38644 Geothermal energy as a resource in a hydrogen energy economy 08 p0174 A75-44755

An economic study of electrical peaking alternatives
08 p0179 A75-44799

Ultimate energy, the ultimate fuel, and the hydrogen link in the electrical energy system 08 p0180 A75-44815

Regional economics: A subset of simulation of the effects of coal-fired power development in the four corners region 06 p0107 N75-21193 Impact of future use of electric cars in the Los Angeles region. Volume 1: Executive summary and technical report
[PB-238877/5]
07 p0131 N75-2 07 p0131 N75-22199 Impact of future use of electric cars in the Los Angeles region. Volume 2: Task reports on electric car characterization and baseline [PB-238878/3] 07 p0131 B75-22200 Conversion of electrical energy into laser radiation energy in high pressure mixtures of molecular gases 07 p0133 N75-22722 Technology survey of electrical power generation and distribution for MIUS application [NASA-TH-X-58127] 08 p0207 N75-31573 Hydrogen cycle peak-shaving for electric utilities 05 p0005 A75-10535 Hydrogen for the electric utilities - Long range 05 p0005 A75-10536 Energy storage for utilities via hydrogen systems
05 p0005 A75-10537 Independent energy systems for better efficiency 05 p0006 A75-10549 The FCG-1 fuel cell powerplant for electric 05 p0013 A75-12992 Potential for large-scale energy storage in electric utility systems
[ASME PAPER 74-WA/ENER-9] 05 p0016 A75-16840 [ASME PAPER /4-MA/KNER-7] 05 p0016 A/5-16840 Economics of a hydrogen storage peaking power plant [ASME PAPER 74-MA/FWR-6] 05 p0018 A75-16880 Prospects for using dynamic thermocompression converter in solar power plants 05 p0020 A75-17076 Meteorological factors and dispersion of pollutants in the atmosphere - A preliminary study about a large power plant 06 p0045 A75-21150 Environmental impact of a geothermal power plant 06 p0049 A75-23291 Considerations regarding a utilization of solar energy --- thermal, electric and wind energy 06 p0050 A75-23510 The solution of information-deficiency problems of electroenergy technology --- optimal decision 06 p0062 A75-28508 Systems aspects of ocean thermal energy conversion
[AIAA PAPER 75-615] 06 p0062 A75-28593
100 MWe solar power plant design configuration and [AIAA PAPER 75-623] 06 p0062 A75-28595 central receiver solar power plant in a hybrid mode of operation --- solar/fossil-fueled steam power plant
[AIAA PAPER 75-624] 06 p0062 A75-28596 Solar thermal conversion mission analysis
[AIAA PAPER 75-619] 06 p006 06 p0064 A75-29117 Parametric performance and cost models for solar 07 p0109 A75-29476 Analysis of gas dissociation solar thermal power 07 p0115 A75-33974 Complex utilization of a solar power plant 07 p0116 A75-34320 Evaluation of central solar tower power plant 07 p0116 A75-34531 Component design considerations for gas turbine HTGR power plant --- High-Temperature Gas-cooled [ASME PAPER 75-GT-67] 07 p0116 A75-34620 Generation of electric power at high reliability levels using a group of solar power plants in an energy system 07 p0122 A75-37159 Generalizations of composite studies involving combined use of wind and solar energy 07 p0122 A75-37161

Pull-scale tests of 'photovolt' high-voltage photocells at high light flux levels	Prospects for magnetohydrodynamic electric power plants in power engineering
O7 p0122 A75-37162 Ocean thermal gradient hydraulic power plant	O6 p0081 #75-17791 Some developments of industrial
MHD power generation	magnetohydrodynamic electric power plants 06 p0081 N75-17792
08 p0166 A75-39197 The utilization of ocean energy for electrical energy generation	Experience in the first step of the mastery of the U-25 device 06 p0081 N75-17793
08 p0168 A75-40181 Solar energy powered systems - History and current	Electronic model of the U-25 device 06 p0081 B75-17794
status 08 p0168 175-40298	Solar sea power axial flow pumps [PB-236997/3] 06 p0082 H75-17821
Generation schemes for wind power plants 08 p0169 175-40688	Low-BTU gasification of coal for electric power generation
Comprehensive utilization of a solar installation 08 p0170 A75-41533	[PB-236972/6] 06 p0088 N75-18740 Organic Bankine cycle silent power plant 1.5 kW,
On the role of hydrogen in electric energy storage 08 p0178 A75-44797	28 volts dc [AD-A000900] 06 p0088 N75-18745
A potassium topping cycle for public utility power plants	Advanced coal gasification system for electric power generation
[AIAA PAPER 75-1235] 08 p0181 A75-45647 1.5 and 3KW indirect methanol-air fuel cell power plants	[PB-236971/8] 06 p0089 N75-18747 The generator of the future development of the magnetohydrodynamic generators
08 p0186 A75-45944 Application of fuel cells with heat recovery for	[AD-A001515] 06 p0089 N75-18754 The bioenvironmental impact of air pollution from
integrated utility systems 08 p0187 A75-45949	fossil-fuel power plants [PB-237720/8] 06 p0090 N75-18782
The UP6 Breeder - A solution to the problems of nuclear power	The collaborative study of EPA methods, 5, 6, and 7 in fossil fuel-fired steam generators
08 p0187 A75-45951	[PB-237695/2] 06 p0091 N75-18788
Thermal power conversion systems for fusion plants 08 p0187 A75-45953	Blectric power generation using geothermal brine resources for a proof of concept facility
Topping cycle applications of thermionic conversion 08 p0188 A75-45972	Geothermal steam condensate reinjection
Thermionic topping of electric power plants 08 p0189 A75-45973 Conceptual design and economics of an MBD pilot	06 p0102 N75-20863 Utility company views of geothermal development 06 p0102 N75-20864
plant 08 p0189 A75-45974	Problems in electric power production and environmental pollution
High-efficiency electrochemical plant 08 p0189 A75-45977	[ISS-T-73/16] 07 p0128 B75-21793 Energy statistics. A supplement to the summary of
The design of a solar cavity steam generator for electrical power generation	National Transportation statistics [PB-236767/8] 07 p0130 N75-21817
08 p0190 A75-45982 Electrical generation by wind power	Peasibility study of a 100 megawatt open cycle ocean thermal difference power plant
08 p0193 A75-46024 Electrical generating equipment and electric	[PB-238571/4] 07 p0130 H75-21821 Potassium topping cycles for stationary power
utility requirements for high-power wind generator systems	conceptual analysis [NASA-CR-2518] 07 p0135 N75-22906
08 p0193 A75-46025 Wind power system optimization	Electric power systems analysis research [PB-239236/3] 07 p0143 N75-24139
08 p0193 A75-46026 High efficiency power conversion cycles using	Conference proceedings, Steam Power Plant Workshop [PB-239514/3] 07 p0144 H75-24148
hydrogen compressed by absorption on metal hydrides	Byaluation of power facilities; A reviewer's handbook electric and nuclear power plants
08 p0194 A75-46034 Solar-thermal electric power generation using a	[PB-239221/5] 07 p0146 N75-24198 Study of fuel cell powerplant with heat recovery
system of distributed parabolic trough collectors [NICHE PAPER 12] 08 p0196 A75-47511	[NASA-CR-141854] 07 p0148 N75-25296 Solids emission from power station furnaces
Standardized wind electric power unit [AD-763764] 05 p0025 H75-10598	industrial pollution control [BLL-CE-TRANS-6524-(9022.09)] 07 p0157 N75-26528
Solar Sea Power Plants (SSPP): A critical review and survey	US and Soviet MHD technology: A Comparative overview
[HASA-TH-X-70783] 05 p0028 H75-11459 Energy plantations: Should we grow trees for	[AD-A004614] 07 p0162 R75-27901 Report to Congress on control of sulfur oxides
power plant fuel? [VP-X-129] 05 p0030 N75-12436	[PB-241021/5] 08 p0204 N75-29597 Liquid-metal binary cycles for stationary power
Energy storage for the electric power industry [LA-UR-74-918] 05 p0031 N75-12447	[NASA-TH-D-7955] 08 p0205 N75-30649 Seaward extension of urban systems: The
Clean power generation from coal [PB-234188/1] 05 p0035 N75-13401	feasibility of offshore coal-fired electrical power generation
Photovoltaic conversion of solar energy for terrestrial applications. Volume 2: Invited	[COM-75-10592/4] 08 p0208 N75-31579 Proceedings of the Workshop on Research Needs
papers [PB-236164/0] 06 p0072 N75-16122	Related to Water for Energy [PB-241346/6] 08 p0208 B75-31581
Low Btu gasification high temperature-low temperature H2S removal comparison effect on	Evaluation of fixed bed, low BTU coal gasification systems for retrofitting power plants
overall thermal efficiency in a combined cycle power plant	[#B-241672/5] 08 p0211 H75-32602 RIBCTRIC POWER SUPPLIES
[PB-235780/4] 06 p0072 H75-16125 Technical and economic feasibility of the ocean	Electrical power generation subsystem for Space Shuttle Orbiter
thermal differences process as a solar-driven	05 p0002 A75-10477
energy process [PB-236422/2] 06 p0077 N75-17003	Technology considerations for Organic Rankine Cycle Electric Power Systems
Pirst Joint Soviet-American Colloquium on the Problems of MRD Energy Conversion	05 p0002 A75-10484 WASA objectives for improved solar power plants

SUBJECT INDEX BLECTRICAL PROPERTIES

Energy storage for utilities via hydrogen systems [BNL-19266] 06 p0086 N75-18725 Solar cell and array standardization for Air Force spacecraft 05 p0002 A75-10486 Conference proceedings: Power Generation-Clean Performance testing of thermoelectric generators Fuels Today [PB-237661/4] 06 p0087 N75-18735 at JPL 05 p0002 A75-10503
SNAP 19 Wiking RTG flight configuration and integration testing --- Radioisotope Electric power rights: One approach to rationing [PB-238537/5] 07 p0143 N75-24138 n approach to the power shortage problem:
Optimal allocation of existing excess reserves
through interregional transmission
[PB-238578/9]
O7 p0144 N75-2 Thermoelectric Generator 05 p0003 A75-10504 Development of a thermal battery for emergency radio power under arctic conditions 07 p0144 N75-24151 The residential user and the electrical load factor 05 p0007 A75-10560 [PB-238535/9] 07 p0145 N75-24152 Development of an electrical generator and Metal hydride fuel cell power source 05 p0008 A75-10564 electrolysis cell for a wind energy conversion Billiwatt fuel cell system for sensors system 05 p0008 A75-10565 [PB-239272/8] 07 p0150 N75-25315 Preliminary investigation into regulatory powers and policies on electric utility peak load pricing [PB-239761/0] 07 p0151 N75-25324 60 watt bydride-air fuel cell system 05 p0008 A75-10567 High energy density sintered plate type sealed nickel cadmium battery cells. I - The positive electrode/plaque relationships An overview of alternative energy sources for LDCs 08 p0200 N75-28529 [PB-239465/8] Solar generator and power systems for communication satellites 05 p0008 A75-10569 High energy density sintered plate type nickel-cadmium battery cells. II -Electrochemical impregnation methods to produce ELECTRIC POWER TRANSMISSION The Electric Power Research Institute's role in applying superconductivity to future utility nickel oxide electrodes 05 p0008.A75-10570 A novel negative-limited sealed nickel-cadmium cell systems 05 p0008 A75-10571 06 p0056 A75-25827 Electrically rechargeable redox flow cells 05 p0008 A75-10573 Testing of a photoelectric generator in a mountainous region of the Azerbaidzhan SSR Advances in space power generation [IAF PAPER 74-086] 06 p0057 A75-26714 05 p0015 A75-13718 Photoelectric generator testing in the Effectiveness of using semiconductor heat pumps under the conditions of the Turkmen SSR Azerbaidzhan SSR mountains 07 p0122 A75-37165 05 p0020 A75-17083 An energy utility company's view of hydrogen energy 08 p0172 A75-42283 Historic development of photovoltaic power generation Economic analysis of space-based electric power generation and transmission systems
[IAF PAPER 75-006] 08 p 06 p0051 A75-24215 08 p0183 A75-45829 The use of solar cells in the lighthouse service 06 p0054 A75-24255 approach to the power shortage problem: optimal allocation of existing excess reserves through interregional transmission Terrestrial applications of PEP-encapsulated solar cell modules --- power systems using Fluorinated [PB-238578/9] Ethylene Propylene encapsulation 07 p0144 N75-24151 Long term power system dynamics. Summary and technical report 06 p0054 A75-24258 Volume 1: The Mitre solar energy demonstration system
06 p0055 A75-24676
MBD energy conversion for high power electrical [PB-240799/7]
Long term power system dynamics. 07 p0161 N75-27573 ong term power system dynamics. Volume 2:
Long-term power system dynamics simulation program
[PB-240800/3] needs 07 p0124 A75-37657 BLECTRIC PROPULSION Estimates of the reliability of energy-supply Hission applications of electric propulsion [AIAA PAPER 74-1085] 05 p0010 systems employing solar energy [AIAA PAPER 74-1085] 05 p0010 A75-11284
Recent advances in components of space power systems
[IAF PAPER 74-083] 05 p0014 A75-13715 08 p0181 A75-45064 Harnessing wind power in developing countries 08 p0191 A75-46009 Efficient thermo-mechanical generation of Prench activity in electric propulsion 07 p0120 A75-36539 electricity from the heat of radioisotopes 08 p0192 A75-46013 Power processor design considerations for a solar A 100 watt Stirling electric generator for solar or solid fuel heat sources electric propulsion spacecraft [NASA-CR-140842] 05 p0029 N75-12064 08 p0192 A75-46014 High energy battery program at Argonne National The economics of using wind power for electricity supply in the Netherlands and for water supply Laboratory [ANL-8064] 06 p0076 N75-16984 on Curacao BLECTRIC PULSES [BASA-TT-F-15982] 05 p0024 N75-10587 Chemical to electromagnetic energy conversion techniques --- explosive flux compression Evaluation of coal conversion processes to provide clean fuels, part 1 --- coal conversion to clean technology fuels 05 p0026 N75-10609 [PB-234202/0] ELECTRIC REACTORS 05 p0025 N75-10600 Energy and the environment: Electric power 05 p0030 N75-12438 Design of energy storage reactors for dc-to-dc converters Electricity conservation measures in the commercial sector: The Los Angeles experience [NASA-CR-143327] BLECTRICAL BEGINEERING 08 p0204 N75-30438 State of the art and prospects for electric vehicles
[BLL-OA-TRANS-1250-(6196.3)] 06 p0074 N75-16712 [R-1592-FEA] 05 p0034 N75-13388 Pressurized fluidized bed combustion [PB-235591/5] 06 p0065 N75-15 Solar thermal electric power systems [PB-236368/7] 06 p0071 N75-16 Development of high specific energy batteries for 06 p0065 N75-15772 US and Soviet MHD technology: A Comparative overview 06 p0071 N75-16118 [AD-A004614] 07 p0162 N75-27901 ELECTRICAL PROPERTIES electric vehicles Radiation effects on high efficiency silicon-solar [ABL-8058] 06 p0076 N75-16990 Applications of aerospace technology in the cells 06 p0051 A75-24197 Dependence of the basic parameters of Al/x/Ga/1-x/As-GaAs solar converters on Steps into the future. Development of the power industry in the USSR [BLL-H-23330-(5828.4F)] 06 p0085 R75-1271 electric power industry temperature and optical intensity 07 p0112 A75-32824

SUBJECT INDEX

Investigation of the electrical and temperature characteristics of a silicon photoelectric converter under natural conditions	Predicted energy densities for nickel-hydrogen and silver-hydrogen cells embodying metallic hydrides for hydrogen storage
07 p0116 A75-34314 Surface electronic properties and the search for	05 p0008 A75-1057 Electrically rechargeable redox flow cells
new hydrogen oxidation catalysts 08 p0178 A75-44795 ELECTRICAL RESISTANCE	O5 p0008 &75-1057 Fundamental research on the selection of new electrochemical generators of medium power
Dynamic method for calculating the series resistance of a semiconductor photoelectric	06 p0060 A75-2782 Photogalvanic cells
converter 06 p0057 175-26713	08 p0167 A75-3940 Bassive production of hydrogen by a
Dynamic calculation of semiconductor photoconverter series resistance 07 p0122 A75-37164	thermo-electrochemical method 08 p0172 A75-4253 Hydrogen generation through static-feed water
BLECTRICITY	electrolysis
Wind power projects of the Prench electrical authority [NASA-TT-P-16057] 05 p0033 N75-13384	08 p0177 A75-4477 Hydrogen generation by solid-polymer electrolyte water electrolysis
Exploiting wind power for the production of electricity windmill utilization in Denmark	08 p0177 A75-4477 Electrochemical heat engines for direct electric
[NASA-TT-F-16058] 05 p0033 N75-13385	power generation and energy storage
Dynamic conversion of solar generated heat to electricity	[AIAA PAPER 75-1237] 08 p0182 A75-4564 High-efficiency electrochemical plant
[HASA-CR-134724] 06 p0066 H75-16079 Fuel cells: Direct conversion of electrochemical	08 p0189 A75-4597 Nickel-hydrogen secondary battery
energy into electricity [SABD-74-0125] 06 p0103 H75-20869	08 p0191 A75-4599 Fickel-hydrogen as an alternative to lead-acid and
Direct conversion of plasma energy to electricity for mirror fusion reactors [UCRL-76051] 07 p0129 N75-21800	nickel-cadmium systems in non-space applications 08 p0191 A75-4599 Redox thermogalwanic cells for direct energy
The 1973 fuel and electrical energy requirements of selected mineral industries activities	conversion 08 p0191 A75-4599
O7 p0134 H75-22899 Solar photothermal power conversion	Cost and size estimates for an electrochemical bulk energy storage concept
07 p0139 N75-24100 Puel use in the US electrical utility industry, 1971 - 1990	[NASA-TM-X-3192] 05 p0039 N75-1516 Development of high specific energy batteries for electric vehicles
07 p0154 N75-26493 Research on solar cell arrays and electric energy	[ANL-8058] 06 p0076 H75-16999 Blectrochemical power sources heat and mass
[PB-239338/7] 07 p0155 N75-26504 The study of priorities in the electrical energy	transfer in porous media [AD-A001610] 06 p0094 N75-1983
allocation problem	Cost and size estimates for an electrochemical
[PB-239762/8] 07 p0156 NT5-26516 An analysis of the potential for shifting electric	bulk energy storage concept [NASA-TH-X-71805] 08 p0210 N75-3259 ELECTROCHEMICAL CORROSION
[PB-239764/4] 07 p0 156 N75-26517	Corrosion and related problems in high-temperature cells
The prospects of energy demand scheduling [PB-239763/6] Conservation and better utilization of electric	06 p0055 A75-2437
power by means of thermal energy storage and solar heating	Hydrazine as a fuel for a fuel cell 08 p0166 A75-3913;
[PB-239395/7] 07 p0157 H75-26521	BLECTROCHEMISTRY
Conservation and better utilization of electric power by means of thermal energy storage and	Pollution-free electrochemical power generation from low grade coal
solar heating, executive summary [PB-239394/0] 07 p0157 H75-26522	[PB-236162/4] 06 p0070 N75-16109 Development of advanced fuel cell system, phase 3
Electrical energy allocations at Navy and Marine Corps bases	[NASA-CR-134818] 07 p0 154 N75-26496
[AD-A009821] 08 p0211 N75-32598 Power shortage contingency program for the Pacific	Calculation of the electrical conductivity of the combustion products of the working medium in an
Forthwest. Legislative, regulatory and institutional aspects	open-cycle MHD generator 07 p0112 A75-31568
[PB-241323/5] 08 p0211 H75-32601	Effect of inhomogeneity of conductivity on end
ELECTRIFICATION Energy systems analysis and technology assessment	effect in a sectional MHD generator 07 p0119 A75-36233
program [BHL-18984] 06 p0094 H75-19831	<pre>BLECTRODES</pre>
ELECTROCATALISTS	nickel-cadmium battery cells. II -
Bydrazine as a fuel for a fuel cell 08 p0166 A75-39132	Blectrochemical impregnation methods to produce nickel oxide electrodes
Development of advanced fuel cell system, phase 3 [HASA-CR-134818] 07 p0154 H75-26496	05 p0008 A75-10570 A novel negative-limited sealed nickel-cadmium cell
ELECTROCHEMICAL CELLS Development and performance of a miniature,	05 p0008 A75-10571 Electrochemical power sources heat and mass
high-voltage thermal battery 05 p0007 175-10559	transfer in porous media
High energy density sintered plate type sealed	Sulfur-based lithium-organic electrolyte secondary
nickel cadmium battery cells. I - The positive electrode/plaque relationships	batteries [AD-A003309] 06 p0104 B75-20882
05 p0008 A75-10569 High energy density sintered plate type	ELECTROHYDRODYNAMICS Heasurements of the performance of an
nickel-cadmium battery cells. II -	electrohydrodynamic heat pipe
Rlectrochemical impregnation methods to produce nickel oxide electrodes	(AIAA PAPER 75-659) 07 p0114 A75-32917 Study on electrofluid dynamic power generation
05 p0008 A75-10570 A novel negative-limited sealed nickel-cadmium cell 05 p0008 A75-10571	[AD-A004762] 07 p0 155 N75-26507 Cycle study of a mercury-colloidal electrofluid dynamic power generator
•	fan=annn9161 07 nn159 #75-27559

SUBJECT INDEX EMERGY COMMENTATION

ELECTROLYSIS	hammadanian)	ELECTRON IBRADIATION	4 -4
Efficiencies of electrolytic and t hydrogen production	nermochemical	The effects of irradiation on high-eff silicon solar cells	iciency
	06 p0045 A75-20300		0051 175-24199
Production of hydrogen by the elec		Rlectron and proton irradiation of hig	h-efficiency
	06 p0046 175-22044	silicon solar cells	0053 A75-24233
Can hydrogen transmission replace	08 p0165 A75-38863	ELECTRONIC EQUIPMENT	0055 A/5-24255
On methods for the large-scale pro		Designing heat pipe heat sinks	
hydrogen from water			0113 A75-32868
	08 p0176 A75-44773	ELECTROPLATING	
Electrolytic hydrogen generators	08 p0176 A75-44774	Thin film coatings in solar-thermal po	0056 A75-25679
Blectrolysis of sea water for		ELECTROSTATIC GENERATORS	
production		Electrostatic voltage generation from	
	08 p0176 A75-44775		0009 A75-10580
Bydrogen generation through static electrolysis	-reed water	EMPLOYMENT Effects of the energy crisis on employ	ment
-	08 p0177 A75-44776	dislocation, 1974	
Bydrogen generation by solid-polym	er electrolyte		0208 #75-31918
water electrolysis	08 p0177 A75-44777	BHCAPSULATING	nlated color
Hydrogen-energy storage for electr		Terrestrial applications of FEP-encaps cell modules power systems using	
systems		Bthylene Propylene encapsulation	
•	08 p0178 A75-44798	06 p	0054 A75-24258
An MHD energy storage system compr		BICLOSURES	
heavy-water producing electrolys H2/O2/CSOH MHD generator/steam t		Solar 10 kW turboalternator silent pow [AD-A006549] 08 p	0203 N75-29555
combination to provide a means of		EMERGY	0203 873 23333
nuclear reactor energy from the		HSF-Rann energy abstracts: A monthly	abstract
into the intermediate-load and p		journal of energy research	
	08 p0 179 A75-44 800		0024 875-10592
Environmental impact of a suitable reactor used to provide a proces		Biological conversion of organic refus [PB-235468/6] 05 p	0041 N75-15183
synthesize fuels	a nege ajacen ee	Energy R/D Data Workshop	0041 275 15105
-	08 p0179 A75-44808	[PB-237493/2] 07 p	0130 875-21811
Energy storage by high-pressure,		ENERGY ABSORPTION	-11
moderate-temperature electrolyti	C techniques 08 p0185 A75-45931	Selection and evaluation of the Universe Plorida's solar powered absorption as	
High-efficiency electrochemical pl		conditioning system	
	08 p0189 A75-45977		0019 475-16889
Water-splitting system synthesized		A resonant point absorber of ocean-wave	
photochemical and thermoelectric	utilizations of	BEERGY ABSORPTION FILES	0170 175-41425
solar energy	08 p0190 A75-45994	Solar characteristics of new absorptive	e coatings
Hydrogen production by electrolysi		used on solar collectors	
future			0117 475-34934
	08 p0193 A75-46022	Thick semiconductor films for photothe	rmal solar
Hydrogen production by water elect Methods for approaching ideal ef		energy conversion	0165 A75-38956
	08 p0193 A75-46023	Semi-transparent solar collector window	
BLECTROLYTES			0167 A75-39405
Electrolyte for hydrocarbon air fu	el cells 07 p0136 N75-22917	Principles and applications of selective	ve solar
[AD-A007220] ELECTROLITIC CELLS	07 po 130 B73 22317	coatings 08 pc	0181 A75-45511
Methanol/air acidic fuel cell syst	en	Optical coatings for collection and con	
	05 p0008 A75-10566	of solar energy	
Porous matrix structures for alkal	ine electrolyte	ENERGY BUDGETS	0181 475-45512
fuel cells	07 p0123 A75-37243	Conservation and efficient use of energy	av
Photogalvanic cells			0036 N75-14265
	08 p0167 A75-39403	A generalised analysis of the performan	nce of a
Prospects for electrolytic hydroge	n for	variety of drive systems for high Re	ynolds
, chemical/industrial plants	08 p0168 A75-40179	number, transonic wind tunnels [RAE-TR-73134] 06 pt	0073 175-16572
Energy storage by high-pressure,	00 pu 100 275 40179	Projected regional energy availability	
moderate-temperature electrolyti			0205 N75-30659
	08 p0185 A75-45931	BUBRGY CONSERVATION	
Solid polymer electrolysis fuel ce	11 status report 08 p0186 A75-45942	Solar energy and energy conservation is state-assisted housing for the elder	
The practical lithium/poly-carbonm			0062 A75-28591
battery system		Energy: A plan for action Book	
	08 p0188 175-45964	07 pC	0110 A75-30375
Photochemical conversion of solar		An ecologic solar heated and cooled hom	
of iron-thionine photogalvanic c [PB-235474/4]	elis 05 p0038 N75-14282	Design of short haul aircraft for fuel	0118 A75-34937
Development of an electrical gener			0169 A75-40502
electrolysis cell for a wind ene		Efficient use of energy	
system	07 =04E0 97E 25345		0169 475-41125
[PB-239272/8] BLECTROHAGHETIC ABSORPTION	07 p0150 ¥75-25315	Fuel conservation possibilities for ter compatible transport aircraft	.mrngT qL6g
The COMSAT non-reflective silicon	solar cell - A		17.1 A75-41698
second generation improved cell		Optical coatings for collection and con	
	06 p0053 A75-24245	of solar energy	1101 176-85549
An electron beam initiated fusion	neutron generator	US PU The EPA-Van - A clean energy system for	0181 A75-45512 c the home
	06 p0045 A75-19657	mobile test station for nonpollut	
Electronbeam heating for fusion			0186 A75-45946
	07 p0120 A75-36295		

Application of fuel cells with heat recovery for	Energy legislation energy conservation and
integrated utility systems	resources management
08 p0187 A75-45949 Reat pipe thermal recovery units for process	[GPO-33-571] 07 p0149 B75-25301 An interdisciplinary engineering approach to a
exhaust energy utilization	facility design study with emphasis on energy
08 p0194 A75-46041 Bigh temperature heat pipes for energy conservation	conservation. Volume 1: Executive summary [AD-A006803] 07 p0149 H75-25304
thermal waste recovery system	An interdisciplinary engineering approach to a
08 p0194 A75-46042	facility design study with emphasis on energy
Initial comparisons of solar collector performance data obtained cut-of doors and with a solar	conservation. Volume 3: Appendices [AD-A006805] 07 p0149 N75-25305
simulator	Energy conservation: A case study for a large
08 p0197 A75-47804	manufacturing plant
Residential energy conservation [TID-26534] 05 p0031 N75-12442	[PB-239302/3] 07 p0151 H75-25323 Dimensions/NBS, volume 59, number 2, February 1975
Remote platform power conserving system	energy conservation, safety management,
[NASA-CASE-GSC-11182-1] 05 p0032 N75-13007 BEGASTAB: The meaning of growth. An assessment	toxic hazards [COM-75-50141/02] 07 p0151 N75-25330
of systems, technologies, and requirements	Pive year program planning document for end use
methodology for display and analysis of energy	energy conservation, research, development, and
production and consumption [NASA-CR-120338] 05 p0033 N75-13381	.demonstration [PB-240406/9] 07 p0152 N75-25331
Electricity conservation measures in the	Commerce today, volume 5, number 10 a
commercial sector: The Los Angeles experience	discussion of international trade, economics,
[R-1592-FPA] 05 p0034 N75-13388 Conservation and efficient use of energy	and energy conservation [COM-74-50944/10] 07 p0152 N75-25775
[H-REPT-93-1634] \ 05 p0036 N75-14265	Mineral resources and the environment energy
Fuel conservation capability and effort by commercial air carriers	conservation and energy policy [PB-239579/6] 07 p0153 N75-26486
[NASA-CR-137624] 05 p0039 N75-15157	Papers and proceedings of two energy crisis seminars
Evaluation of advanced lift concepts and potential	for urban transportation
fuel conservation for short-haul aircraft [NASA-CR-2502] 06 p0073 N75-16557	[PB-239164/7] 07 p0156 N75-26513 Conservation and better utilization of electric
Legal economic, and energy considerations in the	power by means of thermal energy storage and
use of underground space [PB-236755/5] 06 p0080 N75-17749	solar heating [PB-239395/7] 07 p0157 N75-26521
Oversight: Mandatory petroleum allocation programs	Conservation and better utilization of electric
[GPO-31-027] 06 p0081 N75-17806	power by means of thermal energy storage and
Economic and energy conservation relationship relevant to state of New York building design	solar heating, executive summary [PB-239394/0] 07 p0157 N75-26522
and contract awards	An analysis of constraints on increased coal
[PB-237006/2] 06 p0082 N75-17824	production
Report and recommendations of the Solar Energy Data Workshop	[PB-240613/0] 07 p0157 N75-26525 Conservation in Alberta, 1973
[PB-238066/5] 06 p0089 N75-18757	07 p0158 N75-27532
Synthetic Liquid Fuel Research and Development Act of 1974 energy conservation and cost analyses	Space and energy conservation housing prototype unit development
[GPO-44-818] 06 p0103 N75-20867	[NASA-CR-143201] 07 p0160 N75-27567
Management of power plant waste heat in cold regions	Project conserve, a pilot project in homeowner
[AD-A003217] 06 p0104 N75-20881 The energy crisis and decision making in the family	energy conservation [PB-240407/7] 07 p0161 N75-27577
[PB-238783/5] 06 p0106 N75-21028	The household energy game
A comparative analysis of the energy consumption for several urban passenger ground	[COM-75-10304/4] 07 p0161 N75-27578 Energy rationing and energy conservation:
transportation systems	Poundations for a social policy
[PB-238041/8] 06 p0107 N75-21160	[PB-239766] 07 p0162 N75-27579 Transportation energy conservation: A program
Ainse Engineering Conference energy report [CONF-740814-ABSTS] 07 p0129 N75-21801	plan of policy-oriented research
Industrial energy study of the petroleum refining	[PB-240734/4] 08 p0200 H75-28528
industry [PB-238671/2] 07 p0130 N75-21818	Proceedings of the Conference on Energy Conservation in Commercial, Residential and
Technological improvements to automobile fuel	Industrial Buildings
consumption. Volume 2A: Sections 1 through 23 [PB-238678/7] 07 p0132 N75-22479	[PB-240306/1] 08 p0200 N75-28539
A study of technological improvements in	Measure for reducing energy consumption for homeowners and renters
automotive fuel consumption. Volume 1:	[PB-240472/1] 08 p0201 N75-28546
Executive summary [PB-238693/6] 07 p0132 N75-22481	Fuel conservation in ship operations [COM-75-10466/1] 08 p0202 N75-29270
A study of technological improvements in	Energy conservation study of Veterans
automobile fuel consumption. Volume 2:	Administration hospitals. Stage 1: Base line
Comprehensive discussion [PB-238694/4] 07 p0132 N75-22482	survey [PB-241095/9] 08 p0203 N75-29559
A study of technological improvements in	Energy conservation study of Veterans
automobile fuel consumption. Volume 3A: Appendixes 1 - 111	Administration hospitals. Stage 2: Operational study
[PB-238695/1] 07 p0133 N75-22483	[PB-241096/7] 08 p0203 N75-29560
A study of technological improvements in	Energy conservation study of Veterans
automobile fuel consumption. Volume 3B: Appendixes 4 ~ 7	Administration hospitals. Stage 3: Hospital energy control system
[PB-238696/9] 07 p0133 N75-22484	[PB-241097/5] 08 p0203 B75-29561
Evaluating integrated utility systems [PB-238765/2] 07 p0136 H75-22925	Energy conservation study of Veterans Administration hospitals. Stage 4: Basic
An interdisciplinary engineering approach to a	detail data for stage 1, 2, and 3
facility design study with emphasis on energy	[PB-241098/3] 08 p0203 H75-29562
conservation. Volume 2: Main report text [AD-A006804] 07 p0142 N75-24129	<pre>Bnergy data requirements of the Federal Government. Part 4: Propane and crude oil;</pre>
Preliminary study of advanced turboprops for low	conflicts of interest
, energy consumption	[GPO-41-639] 08 p0207 N75-31566
[HASA-TH-X-71740] 07 p0146 N75-24739	· · · · · · · · · · · · · · · · · · ·

Investigation of current university research concerning energy conversion and conservation in small single-family dwellings [NASA-CR-143430] 08 p0207 N75-31570 Providing for a national fuels and energy conservation policy, establishing an office of energy conservation in the Department of the Interior, and for other purposes
[H-REPT-93-1546] 08 p0208 N75-31953
Study of potential for motor vehicle fuel economy
improvement. Fuel economy test procedure panel report no. [PB-241776/4] 08 p0210 N75-32470 Study of potential for motor vehicle fuel economy improvement. Technology panel report no. 4 [PB-241774/9] 08 p0210 M75-32471
Study of potential for motor vehicle fuel economy improvement. Safety implications panel report [PB-241772/3] [PB-241772/3] 08 p0212 M75-33410 Study of potential for motor vehicle fuel economy improvement. Truck and bus panel report no. 7 [PB-241777/2] 08 p0212 N75-33411 Incorporating energy conservation techniques in the operation of existing LeRC R and D facilities
--- energy policy/NASA programs
[NASA-TM-X-71813] 08 p0212 N75-33494
Seminar on Industrial Energy Conservation and 08 p0212 N75-33494 Seminar on Solar Space Heating and Cooling
[PB-241462/1] 08 p0212 N75-33498
Plausibility of a restricted energy use scenario [COM-75-10749/0] 08 p0213 N75-33507 The NBS computerized carpool matching system:
User's guide
[COM-75-10691/4] 08 p0214 M7 08 p0214 N75-33749 ENERGY CONSUMPTION Hydrogen cycle peak-shaving for electric utilities
05-p0005-A75-10535
Energy efficiency of current intercity passenger
transportation modes
[AIAA PAPER 75-314]
06-p0047-A75-22513
Air transportation energy consumption - Yesterday, today, and tomorrow [ATAA PAPER 75-319] . 06 p0047 A75-22: Hode shift strategies in intercity transportation 06 p0047 A75-22515 and their effect on energy consumption [AIAA PAPER 75-315] 06 p0055 A75-25013 'Time is energy' /Henson and Stringfellow Hemorial Lecture/ --- VTOL aircraft developments 07 p0112 A75-32324 Available energy conversion and utilization in the United States [ASHE PAPER 74-WA/PWR-1] 08 p0166 A75-393 Energy survey - What can RED do by 1985 --- fossil 08 p0166 A75-39349 fuel utilization '08 p0169 A75-40617 Getting at the big facts in transportation - private and public transit efficiencies 08.p0173 A75-42973 Total energy use fcr commercial aviation in the US [ORNL-HSP-EP-68] 05 p0023 N75-100 05 p0023 N75-10039 MEGASTAR: The Meaning of Energy Growth: Assessment of Systems, Technologies, and Requirements 05 p0023 N75-10584 [NASA-CR-120355] energy flow charts for 1950, 1960, 1970, 1980, 1985, and 1990 [UCRL-51487] 05 p0024 #75-10593 A call for action 05 p0030 #75-12432 The approaching energy crisis: Energy and the environment in Baden-Wuerttemberg
[KFK-1966-UF] 05 p0030 H75-1 05 p0030 N75-12439 Residential energy conservation [TID-26534] 05 p0031 H75-12442 Energy consumption by industries in support of national defense: An energy demand model [AD-784964] 05 p0031 H75-05 p0031 N75-12449 Total energy supply and demand, volu --- natural gas, economic analysis volume 1, chapter 6 06 p0067 N75-16082 Oslo's future power supply [NP-20121]
WSF-RANN energy abstracts
[ORML-EIS-74-52-VOL-2-5] 06 p0067 N75-16087 06 p0068 H75-16092 Guidelines to reduce energy consumption through transportation actions [PB-235983/4] 06 p0068 N75-16094

Industrial energy studies of ground freight transportation, volume 1 [PB-236016/2] 06 p0069 i 06 p0069 N75-16099 Industrial energy studies of ground freight transportation. Volume 2: Appendices [PB-236017/0] 06 p0069 N75-16100 Energy use in the commercial and industrial sectors of the US economy, 1963
[PB-235487/6] 06 p0070 N75-16104 Industrial energy study of the Industrial chemicals group Fuel and energy data: United States by states and regions, 1972 [PB-236581/5] 06 p0077 N75-17004 Industrial energy study of selected food industries
[PB-237316/5] 06 p0083 N75-1782 [PB-237316/5] 06 p0083 H75-17827 Study of industrial uses of energy relative to environmental effects [PB-237215/9] 06 p0084 M75-178 Report of the Interagency Working Group on health 06 p0084 N75-17853 and environmental effects of energy use [PB-237937/8] 06 p0084 N75-17858 Documenting helicopter operations from an energy standpoint [NASA-CR-132578] [NASA-CR-132578] 06 p0084 H75-18220 Industrial energy study of the hydraulic cement industry [PB-237142/5] Fuel and energy consumption in the coal industries [PB-237151/6] IPB-237/51/6]
Intra industry capability to substitute fuels
[PB-237605/1]
06 p0093 N75-19814
Energy utilization by households and technology
assessment as a way to increase its effectiveness
--- management methods and family decision making
06 p0097 N75-20829
Hanagement of power plant waste heat in cold regions
[AD-2003217] [AD-A003217] 06 p0104 N75-20881
The energy crisis and decision making in the family The effect of recent energy price increases on field crop production costs
[PB-238659/7] 06 p0107 x75-21155 comparative analysis of the energy consumption for several urban passenger ground transportation systems 06 p0107 N75-21160 A supplement to the summary of [PB-238041/8] Wational Transportation statistics
07 p0130 N75-21817 Energy statistics. Industrial energy study of the petroleum refining industry [PB-238671/2] 07 p0130 N75-21818 state energy management plan for North Carolina, phase 1: A quantitive description of the current situation and analysis of the CUTTENT SITUATION AND ANALYSIS OF LICE energy use february and consequences of future energy use fPB-238197/8] 07 p0130 B75-21819 [PB-238197/8] USAF energy projection model [AD-A006928] 07 p0132 N75-22476 Technological improvements to automobile fuel Volume 1: Executive summary
07 p0132 B75-22478 consumption. Technological improvements to automobile fuel consumption. Volume 2B: Sections 24 and 25 and appendixes A through I [PB-238679/5] 07 p0132 N75-22480 PB-238964/1] 07 p0134 H75-22898 Retrofitting existing housing for energy Conservation: An economic analysis
[COM-75-50049/6]
Path to self-sufficiency directions and constraints
--- a model of US energy supply system
[PB-239099]
07 p0142 B75-24128 Utilization analysis of energy systems 07 p0144 H75-24144 The residential user and the electrical load factor [PB-238535/9] 07 p0145 N75-24152 Preliminary study of advanced turboprops for low energy consumption [WASA-TH-X-71740] 07 p0146 H75-2 [BASA-TH-Y-71740] 07 p0146 B75-24739
Beeting California's energy requirements, 1975 -07 p0149 #75-25297 Residential energy consumption and small scale options of energy systems for space heating [PB-239941/8] 07 p0154 N75-26501

Digest of energy facts for water resources studies	Energy 10; Annual Intersociety Energy Conversion
in Minnesota	and Engineering Conference, 10th, University of
[PB-239961/6] 07 p0156 N75-26515	Delaware, Newark, Del., August 18-22, 1975, Record
The study of priorities in the electrical energy	08 p0 183 A75-4592
allocation problem	Novel materials for power systems. Part 3:
[PB-239762/8] 07 p0156 N75-26516	Selective emitters for energy conversion
The problem of peak load pricing subject to rate	[AD-784449] 05 p0026 B75-10600
of return constraint	Chemical to electromagnetic energy conversion
[PB-239765] 07 p0163 H75-27964	techniques explosive flux compression
Uranium resources to meet long term uranium	technology
reguirements	[AD-783901] 05 p0026 N75-10609
[PB-239515/0] 08 p0199 N75-28508	Otilization of plasma exhaust energy for fuel
Peasibility study cf solar energy utilization in modular integrated utility systems	production [COO-3028-7] 05 p0028 B75-1146
[NASA-CR-141929] 08 p0199 N75-28518	Review of direct energy conversion of ion beams:
Demand for scientific and technical manpower in	Experimental results and reactor applications
energy-related industries: United States	[UCRL-75600] 05 p0028 N75-11460
1970-1985	MHD energy conversion
[PB-240865] 08 p0201 N75-28964	[AD-785419] 05 p0032 N75-1280
Application of fast sparse-matrix techniques and	Bfficiencies in power generation
an energy estimation model for large	[PB-234160/0] 05 p0034 H75-13390
transporation networks	Continued development of energy transmission and
08 p0201 N75-28967	conversion systems applied to operation of
Alternative strategies for optimizing energy supply, distribution, and consumption systems on	mechanical hearts [PB-236181/4] 05 p0037 H75-14278
Naval bases. Volume 3: Assessment of total	DART: A simulation code for a direct energy
energy system applications at Naval facilities	converter for fusion reactors
[AD-A003590] 08 p0202 N75-29550	[UCRL-51557] 05 p0043 N75-15462
Master plan for REIS implementation	Development of advanced fuel cell system, phase 2
[PB-241126/2] 08 p0205 N75-30945	[NASA-CR-134721] 06 p0067 N75-16084
Design considerations for a comprehensive regional	Energy conversion from coal utilizing CPU-400
energy information system	technology
[PB-241123/9] 08 p0206 N75-30946	[PB-235817/4] 06 p0068 N75-16093
Contribution to the improvement of the regulating	Photochemical conversion of solar energy
process of ignition controlled engines	[PB-235503/0] 06 p0070 N75-16106
[PUBL-165] 08 p0206 H75-31285 Electrical energy allocations at Havy and Marine	Chemical vapor deposition research for fabrication of solar energy convertors
Corps bases	[PB-236189/7] 06 p0072 N75-16119
[AD-A009821] 08 p0211 H75-32598	Low to high temperature energy conversion system
Power shortage contingency program for the Pacific	using ammonia
Northwest. Legislative, regulatory and	[MASA-CASE-NPO-13510-1] 06 p0074 N75-16972
institutional aspects	Prospective regional markets for coal conversion
[PB-241323/5] 08 p0211 N75-32601	plant products projected to 1980 and 1985.
Energy consumption: Paper,	Volume 2: Current and projected demand, supply
stone/clay/glass/concrete, and food industries	and price of energy in the United States
[PB-241926/5] 08 p0211 H75-32607 Energy consumption: The primary metals and	[PB-236632/6] 06 p0078 M75-17007 Prospective regional markets for coal conversion
petroleum industries	plant products projected to 1980 and 1985.
[PB-241990/1] 08 p0213 N75-33503	Volume 3: Current and projected demand, supply
Research design construction and evaluation of a	and price of energy in the United States,
low energy utilization school, research phase 1	schedules
[PB-242217/8] 08 p0213 H75-33504	[PB-236633/4] 06 p0078 N75-17008
The future of the US nuclear energy industry	Energy conversion. 1: Non-propulsive aspects
[PB-242164/2] 08 p0214 N75-33511	fuels and pyrotechnics
ENERGY CONVERSION	[AD-A000077] 06 p0079 B75-17454 First Joint Soviet-American Colloquium on the
Intersociety Energy Conversion Engineering Conference, 9th, San Francisco, Calif., August	Problems of MHD Energy Conversion
26-30, 1974, Proceedings	[JPRS-63794] 06 p0081 N75-17790
05 p0001 A75-10476	Prospects for magnetohydrodynamic electric power
Closed loop chemical systems for energy	plants in power engineering
transmission, conversion and storage	06 p0081 N75-17791
05 p0005 A75-10538	Some developments of industrial
Prospects for tapping solar energy on a large scale	magnetohydrodynamic electric power plants
05 p0015 A75-14014	06 p0081 H75-17792
Corrosion problems in energy conversion and	Workshop in Gas-Phase Holecular Interactions and
generation; Proceedings of the Symposium, New York, N.Y., October 15-17, 1974	the Nation's Energy Problem [PB-236712/6] 06 p0086 N75-18718
06 p0054 A75-24376	Status and outlook for energy conversion via fuel
Temperature sensor for photoelectric energy	cells
converters	[CONF-740462-1] 06 p0087 N75-18729
06 p0057 A75-26712	Study of potential problems and optimum
Geother: 1 energy technology assessment	opportunities in retrofitting industrial
06 p0060 A75-27826	processes to low and intermediate energy gas
Low-power turbines using organic vapor	from coal
07 p0110 A75-30892	[PB-237116/9] 06 p0088 H75-18739
Photoelectric energy converter temperature sensor • 07 p0122 A75-37163	In situ oil shale conversion and recovery [SLA-74-0162] 06 p0093 N75-19825
Laser energy conversion.	Evaluation of pollution control in fossil fuel
07 p0125 A75-38474	conversion processess. Gasification, section 1:
The utilization of ocean energy for electrical	Synthane process
energy generation	[PB-237113/6] 06 p0095 N75-19879
08 p0168 A75-40181	Evaluation of pollution control in fossil fuel
Ocean based solar-to-hydrogen energy conversion	conversion processes: Gasification. Section 1:
macro system	Lurgi process
08 p0175 175-44764	[PB-237694/5] 06 p0096 N75-19880
A search for thermochemical water-splitting cycles	Energy recovery from solid waste. Volume 1: Summary report
for energy production 08 p0177 A75-44782	[NASA-CR-2525] 06 p0098 N75-20830
00 PO 111 E12-44 102	[]

Puel cells: Direct conversion of electrochemical energy into electricity
(SAND-74-0125)
O6 p0103 H75-20869
Energy and fixed nitrogen from agricultural residues 06 p0103 H75-20869 06 p0 103 N75-20874 [BNWL-SA-5070] Direct conversion of plasma energy to electricity for mirror fusion reactors [UCRL-76051] 07 p0129 N75-21800 Ainse Engineering Conference --- energy report
[CONF-740814-ABSTS] 07 p0 129 #75-21801 direct voltage converter without transformer [NASA-TT-F-16174] 07 p0133 H75-22584 Conversion of electrical energy into laser radiation energy in high pressure mixtures of molecular gases 07 p0133 N75-22722 Development and evaluation of a Stirling-Cycle energy conversion system [PB-239086/2] 07 p0136 N75-22918 Economic system analysis of coal preconversion technology 07 p0151 N75-25325 The impact of energy development on water resources in arid lands. Literature review and annotated bibliography [PB-240008/3] 07 p0157 N75-26550 Animal waste conversion systems based on thermal discharge [PB-240113] 07 p0159 #75-27548 Mechanical thermal motor [NASA-CASE-MFS-23062-11 07 p0 160 N75-27561 Evaluation of pollution control in fossil fuel conversion processes. Liquefaction, section 1: COED process [PB-240371/5] 07 p0162 N75-27626 Workshop on Pundamental Research in Homogeneous catalysis as Related to US Energy Problems [PB-240177/6] 8 valuation of pollution control in fossil fuel conversion processes: Gasification. Section 1: CO2 acceptor process [PB-241141/1] 08 p0204 N75-29596 Electric power generation system directory from laser power [NASA-CASE-NPO-13308-1] 08 p0204 N75-30524 Investigation of current university research concerning energy conversion and conservation in small single-family dwellings [MASA-CR-143430] 08 p0207 N75-31570 Proceedings of the Workshop on Research Beeds Related to Water for Energy [PB-241346/6] 08 p0208 N75-31581 Progress of ISL research on energy conversion in ferroelectric ceramics of the type Pb(ZrluTix)03 [ISL-29/74] 08 p0208 N75-31910 Process and environmental technology for producing SNG and liquid fuels
[PB-242774/8] 08 p0212 N75-33491 BURERY CONVERSION RPPICIENCY
MHD energy conversion systems
[AIAA PAPER 74-1071] 05 p0001 A75-10263 Solar farms utilizing low-pressure closed-cycle gas turbines 05 p0003 A75-10514 The hot deeps of the Red Sea as a potential heat e hot deeps of the ked sed as a processor source for thermcelectric power generation 05 p0004 A75-10516 A planning methodology for the analysis and design of wind-power systems 05 p0004 A75-10517 A wind energy conversion system based on the tracked-vehicle airfoil concept Economics analyses of solar energy utilization
05 p0004 A75-10520
A prototype solar powered, Rankine Cycle system
providing residential air conditioning and electricity 05 p0004 A75-10523 Solar augmented home heating heat pump system 05 p0004 A75-10524 Independent energy systems for better efficiency 05 p0006 A75-10549 Fuel energy systems - Conversion and transport efficiencies 05 p0007 A75-10554

Advanced betavoltaic power sources

05 p0007 A75-10563

Metal hydride fuel cell power source 05 p0008 A75-10564 Blectrically rechargeable redox flow cells 05 p0008 A75-10573 Peasibility demonstration of a road vehicle fueled with hydrogen-enriched gasoline 05 p0008 A75-10574 Report on progress in achieving direct conversion of a major fraction of sonic flow kinetic power into electrical power by electrofluid dynamic /EFD/ processes 05 p0009 A75-10576 The HHD power generation system with directly fired coal 05 p0009 A75-10577
Development of a theoretical method for predicting the performance of hydrogen-oxygen BHD generators 05 p0009 A75-10578 The Harwell thermo-mechanical generator 05 p0009 A75-10579 Electrostatic voltage generation from flowing water 05 p0009 A75-10580 Analysis of conversion efficiency of organic-semiconductor solar cells 05 p0010 A75-11146 Power conversion of energy fluctuations 05 p0011 A75-11497 II-VI photovoltaic heterojunctions for solar energy conversion 05 p0012 A75-12734
Prospects and scientific problems of the
utilization of methods of direct electric power generation from chemical fuels /fuel cells/ 05 p0012 A75-12911 Progress in coal dasification 05 p0013 A75-12993 High efficiency thermoelectric generator 05 p0014 A75-13067 Solar thermal absorption heat pump breakeven coefficient of performance [ASBE PAPER 74-WA/ENER-2] [ASME PAPER 74-WA/ENER-2] 05 p0015 A75-16834 Methods for low cost manufacture of silicon solar arrays [ASME PAPER 74-WA/ENER-4] 05 p0016 A75-16836 comparison of methods for electric power generation from geothermal hot water deposits [ASME PAPER 74-WA/ENER-10] 05 p0016 A75-[ASME PAPER 74-WA/ENER-10] 05 p0016 A75-16841
Natural convection in enclosed spaces - A review of application to solar energy collection
[ASME PAPER 74-WA/HT-12] 05 p0017 A75-16860
Performance of the thermal trap solar collector
[ASME PAPER 74-WA/SOL-5] 05 p0019 A75-16888 Utilization of tubular thermoelectric modules in solar generators 05 p0020 A75-17067 Determination of the temperature field in a tubular thermoelectric module 05 p0020 A75-17068 Prospects for using dynamic thermocompression converter in solar power plants 05 p0020 A75-17076 Effect of heat transfer from the lateral surfaces of semiconductor thermocouples on the energy characteristics of a thermoelectric generator 05 p0021 A75-18798
Thermodynamic considerations of 'solid state engines based on thermoelastic martensitic transformations and the shape memory effect 06 p0045 A75-19631 Numerical simulation of direct energy conversion --- from fusion reactions 06 p0045 A75-19660 Hydrogen fuel cells and motors --- new energy technology 06 p0046 A75-22042 Stirling engines - Capabilities and prospects
06 p0048 A75-23237 Radiation effects on high efficiency silicon-solar cells 06 p0051 A75-24197 The effects of irradiation on high-efficiency silicon solar cells 06 p0051 A75-24199 Optimisation of solar cell shielding for geostationary missions

06 p0051 A75-24203 Improvements in analysis and technology of silicon

solar cells with increased efficiency

06 p0051 A75-24216

High efficiency silicon solar cells' 06 p0052 A75-24217 Development and space qualification of new high-efficiency silicon solar cells 06 p0052 A75-24218 Development of very low cost solar cells for terrestrial power generation 06 p0052 A75-24226 Performance of advanced silicon solar cells in a space environment 06 p0052 A75-24232 Electron and proton irradiation of high-efficiency silicon solar cells 06 p0053 A75-24233 The COMSAT non-reflective silicon solar cell - A second generation improved cell 06 p0053 A75-24245 Power generation for the M4 spacecraft - A step in the development of a high power/mass ratio, hybrid solar array for applications spacecraft 06 p0053 A75-24251 Review of central power magnetohydrodynamics
[AINA PAPER 75-264] 06 p0055 A 06 p0055 A75-25005 Epitarial silicon solar cell 06 p0056 A75-25086 A superconducting microwave engine 06 p0056 A75-25831 A generalization of the Carnot theorem - The theorem of useful power 06 p0057 A75-26448 High-efficiency graded band-gap Al/x/Ga/1-x/As-GaAs solar cell 06 p0058 A75-27519 Gals concentrator solar cell 06 p0058 A75-27520 Solar collector performance evaluated outdoors at NASA-Lewis Research Center 06 p0058 A75-27531 Salt domes, pit craters, and dry steam fields -Heat pipe applications 06 p0060 A75-27789 performance [AIAA PAPER 75-623] 06 p0062 A75-28595 Design study of the energy characteristics of thermionic electric power generating components and assemblies 06 p0064. A75-28893 Ocean thermal energy conversion system evaluation [AINA PAPER 75-616] 06 p0064 A75-29 06 p0064 A75-29115 (AIAA PAPER 73-6 to]

Hydrogen production from solar energy

07 p0109 A75-29477 A new concept for solar energy thermal conversion 07 p0110 A75-30368 Ocean thermal energy conversion 07 p0111 A75-31274 Temperature effects in Schottky-barrier silicon solar cells 07 p0115 A75-34175
Solar air conditioning systems using Rankine power cycles - Design and test results of prototype three ton unit 07 p0117 A75-34931 Investigation of photoelectric converter operation under conditions of strong illumination 07 p0119 A75-36015 Study of the influence of container design and the thermal inertness of solar water heaters on their efficiency 07 p0119 A75-36018 Efficient CuInSe2/CdS solar cells 07 p0119 A75-36274 greenhouse effect 07 p0120 A75-36306 Solar energy - The physics of the The conversion efficiency of ideal Shockley p-n junction photovoltaic converters in concentrated 07 p0120 A75-36362 Silicon solar cells for highly concentrated sunlight 07 p0120 A75-36363 Modeling and computer simulation of a microwave-to-dc energy conversion element 07 p0120 A75-36500 Optimization of the operating conditions of a combined generator-cooler thermoelement 07 p0121 A75-37155 The high intensity solar cell - Key to low cost photovoltaic power

07 p0123 A75-37400

Advances in the theory and application of BSF cells --- Back Surface Pield solar cells 07 p0123 A75-37402 Effects of high doping levels on silicon solar cell performance 07. p0123 A75-37403 Effect of impurity doping concentration on solar cell output 07 p0124 A75-37404 MHD energy conversion for high power electrical 07 p0124 A75-37657 Development of the KIVA-I MHD open cycle generator 07 p0124 A75-37686 Poam solar sea power plant 07 p0124 A75-37850 Theoretical study of the energy output of two magnetohydrodynamic generators 07 p0125 A75-38568 Polycrystalline silicon layers for solar cells 08 p0165 A75-38958 Available energy conversion and utilization in the United States [ASME PAPER 74-WA/PWR-1] Photogalvanic cells 08 p0166 A75-39349 08 p0167 A75-39403 Semi-transparent solar collector window systems
08 p0167 A75-39405 Energy - Engineering - Environment; Proceedings of the Seventh Annual Prontiers of Power Technology Conference, Stillwater, Okla., October 9, 10, 1974 08 p0168 A75-40176 Gaseous fuel nuclear reactor research 08 p0168 A75-40177 Prospects for electrolytic hydrogen for chemical/industrial plants 08 p0168 A75-40179 Evaluation of focusing solar energy collectors 08 p0168 A75-40300 Generation schemes for wind power plants
08 p0169 A75-40688 Efficient use of energy 08 p0169 A75-41125 A resonant point absorber of ocean-wave power
08 p0170 A75-41425 Operation of photoconverters under conditions of strong illumination 08 p0170 A75-41538 Investigation of the effect of boiler design and finite thermal response of solar water heaters on efficiency 08 p0170 A75-41541 Enhancement of Schottky solar cell efficiency above its semiempirical limit 08 p0171 A75-42166 Solar tower thermo-chemical energy cycles 08 p0171 A75-42277 An Al p-silicon MOS photovoltaic cell 08 p0173 A75-43459 Influence of the geometrical development of the cathode surface on the specific power of a thermionic converter with surface ionization 08 p0173 A75-43860 Is massive solar energy conversion a practical prospect 08 p0174 A75-44752 Reliability of low cost Cu2S/CdS solar cells for large scale conversion of solar to electrical energy 08 p0174 A75-44754 Wind capture and diversion through pneumatic energy recovery with large capacity aerogenerators 08 p0175 A75-44762 Photolysis of water as a solar energy conversion process - An assessment 08 p0176 A75-44766 Electrolysis of sea water --- for hydrogen fuel production 08 p0176 A75-44775 Evaluation of multi-step thermochemical processes for the production of hydrogen from water 08 p0177 A75-44778 A nearly perfect solar energy concentrator made up of tapered mirror facets with constant transverse curvature 08 p0180 A75-45062

Outlook for Si photovoltaic devices for terrestrial solar-energy utilization

08 p0181 A75-45509

SUBJECT INDEX ENERGY POLICY

Solar-energy conversion at high solar intensities 08 p0181 A75-45514 collectors Electrochemical heat engines for direct electric power generation and energy storage [AIAA PAPER 75-1237] 08 08 p0182 A75-45649 The UP6 Breeder - A solution to the problems of nuclear power 08 p0187 A75-45951 Thermal power conversion systems for fusion plants
08 p0187 A75-45953 automobile [NASA-TM-X-72199] The growth of thermionic energy conversion 08 p0187 A75-45954 [PB-236266/3] The ERDA thermionic program --- for nuclear propulsion and utility power plants 08 p0187 A75-45955 NASA thermionic converter research and technology power plant fuel [PB-238417/0] program --- nuclear electric propulsion application 08 p0188 A75-45956 Electrodes for thermionic energy conversion 08 p0188 A75-45957 [NASA-CR-134864] Energy conversion [AD-A009600] Collector work function improvements and the development of low temperature thermionic converters 08 p0188 A75-45960 Cds/Cu2S solar cells, their potential and SRC process [PB-241792/1] limitations 08 p0188 A75-45961 ENERGY DISSIPATION Design considerations in Schottky solar cells 08 p0188 A75-45962 Topping cycle applications of thermionic conversion 08 p0188 A75-45972 ENERGY DISTRIBUTION Conceptual design and economics of an MHD pilot plant 08 p0189 A75-45974 High-efficiency electrochemical plant 08 p0189 A75-45977 Study of an electrofluidic generator 08 p0189 A75-45978 counter-reflector Dielectric power conversion 08 p0189 A75-45979 The selection and use of energy storage for solar thermal electric application reflector 08 p0189 A75-45980 Solar-heated-air turbine generating systems 08 p0190 A75-45981 Harnessing wind power in developing countries 08 p0191 A75-46009 Efficient thermo-mechanical generation of electricity from the heat of radioisotopes 08 p0192 A75-46013 A comparison of the COMSAT violet and non-reflective cells 08 p0192 A75-46015 SEPS solar array design and technology evaluation 08 p0192 A75-46016 The ATS-6 power system - An optimized design for maximum power source utilization 08 p0192 A75-46017 Orbital solar energy technology advances policy 08 p0192 A75-46018 Space power application of the all purpose mini-Brayton rotating unit /mini-BRU/ 08 p0193 A75-46019
Bydrogen production by electrolysis - Present and 08 p0193 A75-46022
Bydrogen production by water electrolysis Bethods for approaching ideal efficiencies 08 p0193 A75-46023 Comparison and evaluation of nuclear power plant options for geosynchronous power stations 08 p0193 A75-46027 High efficiency power conversion cycles using hydrogen compressed by absorption on metal hydrides 08 p0194 A75-46034 High temperature heat pipes for energy conservation - thermal waste recovery system 08 p0194 A75-46042 Technique for producing 'good' Gals solar cells using poor-quality substrates 08 p0195 A75-46721 High température air preheaters for open cycle MHD energy conversion systems [AICHE PAPER 16] possible solutions 08 p0196 A75-47512 Direct contact heat exchangers in geothermal power

08 p0196 A75-47525

production

[ASHE PAPER 75-HT-52]

Moderately concentrating flat-plate solar energy [ASME PAPER 75-HT-54] 08 p0196 A75-47526 Initial comparisons of solar collector performance data obtained out-of doors and with a solar 08 p0197 A75-47804 Analytical description of the modern steam ` 05 p0035 N75-14134/ Photochemical conversion of solar energy 05 p0037 N75-14281 Otilizing fuel more efficiently in reheating and heat treatment furnaces [BLL-M-21957-(5828.4F)] 06 p0080 N75-17467 Energy plantations: Should we grow trees for 07 p0130 N75-21815 Benefit-cost methodology study with example application of the use of wind generators 08 p0207 N75-31571 08 p0208 N75-31580 Evaluation of pollution control in fossil fuel conversion processes. Liquefaction: Section 2. 08 p0212 N75-32627 Calculation of flat-plate collector loss coefficients --- of solar radiation 07 p0109 A75-29480 Study of energy distribution in the field of concentration of a solar power plant with a hyperboloid counterreflector 05 p0010 A75-11195 Energy distribution in the concentration field of a solar installation with a hyperboloidal 06 p0049 A75-23407 Energy distribution in the concentration field of a two-mirror device with a paraboloidal back 07 p0122 A75-37157 Energy transportation, distribution, and storage [WASH-1281-4] 05 p0024 N75-10595 [WASH-1281-4] 05 p0024 N
Solar energy --- and solar powered equipment
[NASA-TT-F-16155] 06 p0081 N
BNERGY POLICY 06 p0081 N75-17787 Combustion dynamics research for 'Project Combustion agramatics Independence [ATTA PAPER 74-1069] 05 p0001 A75-10262. Fuel outlook dictating technical transport research 05 p0011 A75-11427 Fusion reactors as future energy sources 05 p0011 A75-11735 Energy crisis - Fact or fiction 05 p0011 A75~12115 International energy problems and environmental 05 p0014 A75-13597 The energy perspective --- world fossil fuel reserves and alternate energy sources 05 p0019 A75-17000 Energy. Volume 1 - Demands, resources, impact, technology, and policy --- Book 06 p0045 A75-20066 Conceptual design of reduced energy transports
[AIAA PAPER 75-303] 06 p0047 A75-22508 Energy efficiency of current intercity passenger transportation modes 06 p0047 A75-22513 The economics of nuclear power 06 p0047 A75-22734 Energy systems - Modeling and policy analysis 06 p0055 A75-24750 Mode shift strategies in intercity transportation and their effect on energy consumption
[AIAA PAPER 75-315]

Of p0055 A75-25013

Energy Delta: Supply vs. demand: Proceedings of
the Energy Symposium, San Francisco, Calif.,
Pebruary 25-27, 1974 06 p0059 A75-27778 Energy supply and demand challenges and some 06 p0059 A75-27779 Interaction between the fuel-energy complex and the environment 07 p0110 A75-29800

Energy: A plan for action Book	Energy required to develop power in the United
07 p0110 A75-30375 Puels, minerals, and human survival Book	States 05 p0032 N75-13378
07 p0117 A75-34850 Remote sensing applied to energy-related problems:	Solar photovoltaic energy [GPO-39-576] 05 p0032 H75-13379
Proceedings of the Symposium-Course, Biami, Pla., December 2-4, 1974	Wind energy developments in the 20th century [BASA-TH-X-71634] 05 p0033 N75-13380
07 p0118 A75-35451 Social and environmental context of the hydrogen	Wind energy [GPO-37-390] 05 p0033 N75-13387
есопому 08 р0179 A75-44807	Electricity conservation measures in the commercial sector: The Los Angeles experience
The energy crises	[R-1592-FEA] 05 p0034 N75-13388
08 p0179 A75-44810 The hydrogen economy and the law	Prospects for solar energy utilization [SAND-74-8604] 05 p0034 975-13389
08 p0180 A75-44813 The nuclear electric economy current and	Solar energy: Sandia's photovoltaic research program
projected energy consumption and fossil fuel	[SLA-74-281] 05 p0034 N75-13392 Evaluation of coal-gasification technology. Part
depletion rates 08 p0180 A75-44817	1: Pipeline-W quality gas
Rationale for setting priorities for new energy technology research and development	[PB-234036/2] 05 p0034 N75-13396 Clean power generation from coal
[UCRL-51511] 05 p0024 N75-10594 Development of solar engineering in the USSR	[PB-234188/1] 05 p0035 N75-13401 A review of the status of MHD power generation
[AD-784708] 05 p0025 N75-10597 Preliminary evaluation of underground coal	technology including suggestions for a Canadian MHD research program
gasification at Hanna, Wyoming [BM-TPR-82] 05 p0025 N75-10599	[UTIAS-39] 05 p0035 N75-13641 Transportation vehicle energy intensities. A
Impact of motor gasoline lead additive regulations on petroleum refineries and energy resources,	joint DOT/NASA reference paper energy consumption of air and ground vehicles
1974-1980, phase 1	[NASA-TH-X-62404] 05 p0035 N75-13690
[PB-234185/7] 05 p0025 N75-10601 Char oil energy development	Evaluation of coal-gassification technology. Part 2: Low and intermediate BTU fuel gases
[PB-233263/3] 05 p0025 N75-10603 Evaluation of coal conversion processes to provide	[PB-234042/0] 05 p0036 N75-14273 Solar energy
clean fuels, part 2 [PB-234203/8] 05 p0025 N75-10604	[NASA-TT-P-16092] 05 p0038 N75-15149 Development, growth, and state of the nuclear
Novel materials for power systems. Part 3:	industry
Selective emitters for energy conversion [AD-784449] 05 p0026 N75-10608	[GPO-33-873] 05 p0038 N75-15150 The prospects for gasoline availability: 1974
Effects of energy crisis on education, 1974 [GPO-27-765] 05 p0026 N75-10850	[GPO-34-969] 05 p0039 N75-15155 Oversight: Bandatory petroleum allocation
Hational Crude Oil Befinery Development Act, part 2 [GPO-35-578] 05 p0027 N75-10860	programs, part 1 [GPO-30-060] 05 p0039 N75-15158
The National Coal Conversion Act and the National Crude Oil Refinery Development Act	Oversight: Mandatory petroleum allocation programs, part 2
[GPO-28-964] 05 p0027 N75-10861 Hydrogen future fuel: A literature survey issued	[GPO-31-519] 05 p0039 N75-15159 Prototype oil shale leasing program
quarterly, issue no. 6 bibliographies 05 p0027 N75-11110	[GPO-28-686] 05 p0039 N75-15160 Revised cost estimate for the LLL in situ coal
Oil shale development, part 2 [GPO-30-368] 05 p0027 N75-11455	gasification concept [UCRL-51578] 05 p0039 N75-15166
Solar Sea Power Plants (SSPP): A critical review and survey	Wind and solar power engineering [AD-786844] 05 p0039 H75-15168
[NASA-TH-X-70783] 05 p0028 N75-11459 Degasification of the Mary Lee coalbed near Oak	Development of a process for producing an ashless, low-sulfur fuel from coal. Volume 2:
Grove, Jefferson County, Alabama, by vertical	Laboratory studies. Part 1: Autoclave
borehole in advance of mining [BM-RI-7968] 05 p0028 N75-11462	experiments [PB-236305/9] 05 p0040 H75-15169
Bioconversion cf solar energy and solid waste energy into useable fuels	Bureau of Mines research 1973. Summary of significant results in mining, metallurgy, and
[GPO-37-403] 05 p0028 N75-11463 Shallow solar pond energy conversion system: An	energy [PB-234733/4] 05 p0040 N75-15171
analysis of a conceptual 10-MWe plant	Char oil energy development [PB-234018/0] 05 p0040 N75-15173
NSF-RANN energy abstracts. A monthly abstract	Offshore investigation: Producible shut-in leases
journal of energy research, volume 2, no. 4 [ORNL-EIS-74-52-VOL-2-4]	as of January 1974 (second phase) [PB-234490/1] 05 p0040 B75-15174
Project Independence 05 p0029 N75-12428	Program plan for environmental effects of energy [PB-235115/3] 05 p0040 N75-15177
Solar sea thermal energy	Interfuel substitution in the consumption of energy in the United States. Part 1:
Energy and environmental standards	Residential and commercial sector
environmental standards and energy policy [GPO-37-171] 05 p0030 N75-12431	[PB-234536/1] 05 p0040 N75-15178 Caltech seminar series on energy consumption in
The approaching energy crisis: A call for action 05 p0030 N75-12432	private transportation: Administrative summary [PB-235349/8] 05 p0041 H75-15184
A survey of LNG technological needs in the USA: 1974 to beyond 2000	Chemical vapor deposition research for fabrication of solar energy convertors
05 p0030 N75-12435 Energy plantations: Should we grow trees for	[PB-235481/9] 05 p0041 N75-15185 Peasibility study of alternative fuels for
power plant fuel?	automotive transportation. Volume 1: Executive
Energy and the environment: Electric power	summary [PB-235581/6] 05 p0041 N75-15187
05 p0030 N75-12438 Energy and security: Implications for American	Peasibility study of alternative fuels for automotive transportation. Volume 2: Technical
policy . [AD-785084] 05 p0032 N75-12857	section [PB-235582/4] 05 p0041 #75-15188

SUBJECT INDEX BURRGY POLICY CONTD

Feasibility study of alternative fuels and automotive transportation. Volume 3: Appendices [PB-235583/2] 05 p0041 N75-15189 Solar heating and cooling of buildings, phase O. Volume 2: Final report [PB-235423/1] 05 p0042 N75-15190 [PB-235423/1]
Solar heating and cooling of buildings, phase 0:
Peasibility and planning study. Volume 3, book
1, appendix A, task 1: Development of
requirements. Appendix B, task 2: Systems definition 05 p0042 N75-15191 [PB-235433/0] Solar heating and cooling of buildings. Phase 0: Final report, volume 1
[PB-235427/2] 05 p0042 N75-15192 Solar heating and cooling of buildings. Phase 0: Final report. Volume 2: Appendices A-N Final report. [PE-235428/0] 05 p0042 N75-15193 Solar heating and cooling of buildings. Phase O: Final report. Volume 3: Appendices O-Y [PB-235429/8] 05 p0042 N75-15194 A process for cleaning and removal of sulfur compounds from low Btu gases --- coal gasification [PB-235822/0] [PB-236522/9] 06 p0065 N75-15768 An assessment and analysis of the energy emergency [GPO-25-382] 06 p0066 N75-16076 Market performance and competition in the petroleum industry, part 1 [GPO-28-503] 06 p0066 N75-16077 Fuel availability and allocation in the United States 06 p0067 N75-16081 Total energy supply and demand, volume 1, chapter 6
--- natural gas, economic analysis 06 p0067 N75-16082 Test report SEPS solar array root section model [NASA-CR-120606] 06 p0067 N75-16085 Oslo's future power supply
[NP-20121] 06 p0067 N
Coordinated extension of power plants in the 06 p0067 N75-16087 1980's. A statement submitted to the Ministry of Commerce, Shipping, and Industry by the Energy Committee of the Power Plants [NP-20023] 06 p0067 N 06 p0067 N75-16088 AEC in situ oil shale program [UCID-16520] 06 p0068 N75-16090 Beneficial uses of waste heat [RT/PROT-(74)10] NSP-RANN energy abstracts [ORNL-EIS-74-52-VOL-2-5] 06 p0068 N75-16091 06 p0068 N75-16092 Guidelines to reduce energy consumption through transportation actions [PB-235983/4] 06 p0068 N75-1 Proceedings of the Solar Heating and Cooling for 06 p0068 N75-16094 Buildings Workshop. Part 2: Panel sessions March 23 [PB-235483/5] 06 p0069 N75-16095 Industrial energy studies of ground freight transportation, volume 1 [PB-236016/2] 06 p0069 N75-16099 Industrial energy studies of ground freight transportation. Volume 2: Appendices 06 p0069 N75-16100 [PB-236017/0] [PB-236017/0]

Solar heating and cooling of buildings. Phase 0:
Peasibility and planning study. Volume 1:
[PB-235431/4]

06 p0069 N75-16101 Solar heating and cooling of buildings. Phase 0: Peasibility and rlanning study. Volume 2: Technical report [PE-235432/2] 06 p0069 06 p0069 N75-16102 Solar heating and cooling of buildings, phase 0. Volume 3: App [PB-235424/9] Appendices Energy use in the commercial and industrial sectors of the US economy, 1963 [PE-235487/6] 06 p0070 N75-16104 A study of the demand for gasoline [PB-235254/0] 06 p0070 N75-16105 [PB-235503/0] Photochemical conversion of solar energy [PB-235503/0] 06 p0070 N75-16106 Solar heating and cooling of buildings, phase 0. Volume 1: Executive summary Volume 1: Exe [PB-235422/3] 06 p0070 N75-16107 The design and development of an interactive energy model [PB-236144/2] 06 p0070 N75-16110

plant products projected to 1980 and 1985. Volume 1: Market analysis [PB-236631/8] 06 p0071 M 06 p0071 N75-16113 Air-stable selective surfaces for solar energy collectors
[PB-236196/2] 06 p0071 N75-16116 Photovoltaic conversion of solar energy for Terrestrial Applications. Volume 1: Working group and panel reports
[PB-236163/2] 06 p0072 N75-16121
Transportation and the new energy policies: Truck sizes and weights, part 2 [GPO-29-802] 06 p0073 N75-16410 Energy from the earth's depths [BLL-M-23516-(5828.4F)] 06 p0074 N75-16968 Air conditioning of office buildings with all-electric supply. Part 1: Technical conception [OA-TRANS-938-PT-1] Development of oil and gas on the Continental Shelf [GPO-31-891] 06 p0075 N75-16973 Progress and problems in developing nuclear and other experimental techniques for recovering natural gas in the Rocky Mountain area [B-164105] 06 p0075 N75-16975 The 1974 AGARD Annual Meeting: The energy problem: Impacts on military research and 06 p0075 N75-16977

Development and performance of a miniature,
high-voltage thermal battery
[SLA-74-5363]
06 p0076 N75-16977 development Solar energy program plan for heating and cooling buildings
[WASH-1337-5-DRAFT] 06 p0077 N75-16993 Comparison of the environmental aspects of nuclear and fossil fueled power stations
[CONP-740555-1] 06
Use of methanol in transportation --06 p0077 N75-16995 liquefaction methods [UCID-16528] 06 p0077 N75-16 Proceedings of the Workshop on Needs for Pundamental Research in Catalysis as Related to 06 p0077 N75-16996 the Energy Problem [PB-236683/9] [PB-236683/9] 06 p0078 N75-17006
Prospective regional markets for coal conversion
plant products projected to 1980 and 1985.
Volume 2: Current and projected demand, supply
and price of energy in the United States
[PB-236632/6] Prospective regional markets for coal conversion plant products projected to 1980 and 1985.

Volume 3: Current and projected demand, supply and price of energy in the United States, schedules 06 p0078 N75-17008 [PB-236633/4] Economic modeling and energy policy planning -technology transfer, market research 06 p0079 N75-17210 US energy R and D policy: The role of economics 06 p0080 N75-17783 [RFF-WORKING-PAPER-EN-4] Oversight: Mandatory petroleum allocation programs
[GPO-31-027] 06 p0081 N75-17806 Solar total energy program [SAND-74-0208] 06 p0081 N75-17810 California energy workshop: Developing a plan of action to meet the energy crisis in California
--- oil recovery, nuclear electric power generation, and offshore energy sources
[PB-237045/0] 66 p0082 N75-178 06 p0082 N75-17822 Design and construction of a residential solar heating and cooling system [PB-237042/7] Economic and energy conservation relationship relevant to state of New York building design and contract awards [PB-237006/2] 06 p0082 N75-17824 Use of solar energy in buildings in New York state [PB-236974/2] 06 p0083 N75-17825 Intermediate-term energy programs to protect against crude-petroleum import interruptions: Peasible alternatives, program costs, and operational methods of funding [PB-237209/2] 06 p0083 N75-17826 Industrial energy study of selected food industries [PB-237316/5] 06 p0083 N75-17827

Prospective regional markets for coal conversion

OCS oil and gas: An environmental assessment, Environmental aspects of cadmium sulfide usage in Volume 1 solar energy conversion. Part 1: Toxicological 06 p0083 N75-17837 and environmental health considerations, a OCS oil and gas: An environmental assessment, bibliography [PB-238285/1] Volume 2 06 p0105 N75-20884 Wind power potential of Alaska. 06 p0084 N75-17838 Part 1: Surface wind data from specific coastal sites [PB-238507/8] 06 p0 Nuclear system that burns its own wastes shows 06 p0105 N75-20885 Wisconsin superconductive energy storage project. [NASA-NEWS-RELEASE-75-44] 06 p0085 N75-18716 Workshop in Gas-Phase Molecular Interactions and volume 1 the Nation's Energy Problem [PB-238082/2] 06 p0105 N75-20887 [PB-236712/6] 06 p0086 N75-18718 Status and outlook for energy conversion via fuel Research on the application of solar energy to the food drying industry [PB-238073/1] 06 p0105 N75-20888 [CONF-740462-1] 06 p0087 N75-18729 Synthetic fuels from fusion reactors Watural gas in Alabama [PB-236582/3] [BNL-19351] 06 p0106 N75-216 Synopsis of studies on synthetic fuels production 06 p0106 N75-21098 06 p0088 N75-18737 Assessment of the Rankine cycle for potential application to solar powered cooling of buildings by fusion reactors [BNL-19336] 06 p0106 N75-21104 [PB-238069/9] 06 p0089 N75-18755 Plans and status of the NASA-Levis Research Center Proceedings of the New York State Assembly/AISLE
Conference on Energy and the Environment, Volume 1
[PB-237936/0] 06 p0091 N75-18801 wind energy project [NASA-TM-X-71701] 07 p0128 N75-21795 Wind power installations. Present condition and possible lines of development
[NASA-TT-P-16204] 07 p0128 N75
Energy plantations: Should we grow trees for
power plant fuel
[PB-238417/0] 07 p0130 N75
Energy statistics. A supplement to the summar An economic analysis of oil shale operations featuring gas combustion retorting [PB-237851/1] 06 p0093 N75-19813 07 p0128 N75-21796 Intra industry capability to substitute fuels
[PB-237605/1] 06 p0093 N75-19814 [PB-238417/0] 07 p0130 N75-21815 ergy statistics. A supplement to the summary of National Transportation statistics In situ oil shale conversion and recovery 06 p0093 N75-19825 [SLA-74-0162] LLL-SOHIO solar process heat project [UCID-16630-74-1] 06 [PB-236767/8] 07 p0130 N75-21817 A state energy management plan for North Carolina, phase 1: A quantitive description of the current situation and analysis of the 06 p0093 N75-19827 Nuclear district-heating and nuclear long-distance energy [JUL-1077] current situation and analysis of the determinants and consequences of future energy use [PB-238197/8] 07 p0130 N75-21819
A review of the Project Independence report submitted to Office of Energy Research and Development, National Science Foundation, 10 January 1975
[PB-238791/8] 07 p0131 N75-21823 06 p0093 N75-19828 Energy systems analysis and technology assessment program [BNL-18984] 06 p0094 N75-19831 Development of a process for producing an ashless low sulfur fuel from coal. Volume 4. Product studies. Part 2. Annotated bibliography on mineral fiber production from coal minerals [PD-2776240] A USAF energy projection model [AD-A006928] [PB-237763/8] 06 p0095 N75-19839 07 p0132 N75-22476 Development of a process for producing an ashless, low-sulfur fuel from coal. Volume 4. Product Technological improvements to automobile fuel consumption. Volume 21: Sections 1 through 23 studies. Part [PB-237764/6] Part 3 Products from coal minerals [PB-238678/7] 07 p0132 N75-22479 realistic view of US natural gas supply [PB-238964/1] 07 p0134 N75-22898 06 p0095 N75-19840 Development of a process for producing an ashless, low-sulfur fuel from coal. Volume 4. Product Technology assessment of portable energy RDT and P, phase 1 [NASA-CR-137654] 07 p0134 H75-2 studies. Part 4. Sulfur removal from coal minerals 07 p0134 N75-22901 [PB-237765/3] 06 p0095 N75-19841 Technology assessment of portable energy RDT and P, phase 1 Development of a process for producing an ashless, low-sulfur fuel from coal. Volume 4. Product studies. Part 5. Developmental and rate studies in processing of coal minerals

[PB-237766/1] 06 p0095 N75-1988 [NASA-CR-137653] 07 p0134 N75-22902 Solar residential heating and cooling system development test program 06 p0095 N75-19842 [NASA-TM-X-64924] 07 p0135 N75-22903 Synthetic Liquid Puel Research and Development Act of 1974 --- energy conservation and cost analyses [GPO-44-818] 06 p0103 N75-20867 Synthetic fuels for ground transportation with Potassium topping cycles for stationary power conceptual analysis
[NASA-CR-2518] 07 p0135 N75-2:
Brief examination of the status of nuclear power 07 p0135 N75-22906 special emphasis on hydrogen
[NASA-TH-X-72652] 06 p0103 N75-20
Puel cells: Direct conversion of electrochemical in the republic, using 1974 costs [PEL-237E] 06 p0103 N75-20868 07 p0135 N75-22909 [PB-238642/3] 07 p0135 N75-22915 energy into electricity [SAND-74-0125] 06 p0103 N75-20869 Columnar silicon film solar cells for terrestrial Comparative performance characteristics of cylindrical parabolic focusing and flat plate solar energy collectors [CONF-741104-3] 06 p0103 N75applications [PB-238534/2] 07 p0135 N75-22916 Technology for the conversion of solar energy to fuel gas [PB-238545/8] 06 p0103 N75-20872 Hydrogen storage and production in utility systems
[BHL-19249] 06 p0103 N75-20873 07 p0136 N75-22919 [BBWL-SA-5070]

O6 p0103 B75-20873

Energy and fixed nitrogen from agricultural residues
[BBWL-SA-5070]

O6 p0103 B75-20874 Evaluating integrated utility systems
[PB-238765/2] 07 07 p0136 N75-22925 A study of energy systems command, control and Acoustic array methods for instrumentation of in situ coal gasification [UCID-16591] 06 p0104 N75-20 communication for energy crisis management [PB-239290/0] 07 p0136 N75-22927 Protecting the US petroleum market against future 06 p0104 N75-20875 Metal hydrides as a source of hydrogen fuel
[BNL-14804-R] 06 p0104 N75-20876
Management of power plant waste heat in cold regions denials of imports [AD-A006643] 07 p0137 N75-23387 [AD-A006643]
Feasibility study of a satellite solar power station rMASA-CR-2357]
07 p0138 M75-23683 [AD-A003217] 06 p0104 N75-208 Sulfur-based lithium-organic electrolyte secondary 06 p0104 N75-20881 Photovoltaic solar power systems batteries 07 p0139 N75-24098 Space satellite power system --- conversion of 06 p0104 N75-20882 solar energy by photovoltaic solar cell array:
[NASA-CR-142799] 07 p0139 N75Solar photothermal power conversion Technology for the conversion of solar energy to fuel gas [PB-238103/6] 07 p0139 N75-24099 06 p0104 N75-20883 07 p0139 N75-24100

SUBJECT INDEX PNERGY POLICY CONTD

Oceanic and atmospheric energy sources 07 p0139 N75-24101 The national solar energy program 07 p0139 N75-24102 The energy plantation 07 p0139 N75-24103 Solar energy research and development [GPO-40-684] 07 07 p0139 N75-24104 The high intensity solar cell: Key to low cost photovoltaic power [NASA-TM-X-71718] 07 p0140 N75-24108 The effect of sunshine testing on terrestrial solar cell system components [NASA-TM-X-71722] 07 p0140 N75-24109 Energy imports and the US balance of payments [GPO-28-965] 07 p0141 N75-24114 [GPO-28-965] 07 p0141 N75-24114 The economics of energy and natural resource pricing 07 p0141 N75-24115 [GPO-48-071] compressor designed for the energy research and development agency automotive gas turbine program [NASA-TE-X-71719] 07 p0141 N75-24116
Standardized solar simulator tests of flat plate solar collectors. 1: Soltex collector with two transparent covers [NASA-TM-X-71738] Energy Reorganization Act of 1974 --- the Energy Research and Development Administration and Nuclear Energy Commission [S-REPT-93-1252] 07 p0142 N75-24123 Energy Reorganization Act of 1974 [S-REPT-93-980]
Energy and foreign policy
[GPO-22-562] 07 p0142 N75-24124 07 p0142 N75-24125 Study of the application of HTGR to a petroleum refinery petrochemical complex [CONF-741144-1] 07 p0142 N75-24126 Demonstration plant, clean boiler fuels from coal. Volume 3: Preliminary design/economics analysis Volume 3: resultance. 07 p0142 N/3-2-12. Path to self-sufficiency directions and constraints --- a model of US energy supply system 07 p0142 N/5-24128 Technology and use of lignite [PB-238666/2] 07 p0142 N75-24131 [PB-238666/2]
Photochemical conversion of solar energy
07 p0143 N75-24132 Assessment of uranium and thorium resources in the United States and the effect of policy alternatives [PB-238658/9] 07 p0143 N75-24133 Where the boilers are: A survey of electric utility boilers with potential capacity for burning solid waste as fuel [PB-239392/4] 07 p0143 N75-24135 Terrestrial photovoltaic power systems with sunlight concentration [PB-238506/0] 07 p0143 N75-24136 Chemical vapor deposition research for fabrication of solar energy converters [PB-238947/6] [PB-238947/6] 07 p0143 N75-24137
Electric power rights: One approach to rationing
[PB-238537/5] 07 p0143 N75-24138 Energy system modeling-interfuel competition
[PB-239292/6] 07 p0143 N75-24140
Proceedings of 5th annual symposium: Energy Research and Development --- solar energy, windpower utilization, thermonuclear power generation AD-A007799] 07 p0144 N75-24142 [PB-239291/8] 07 p0144 N75-24144
A preliminary technology assessment of ocean
thermal gradient energy generation [PB-238646/4] 07 p0144 N75-2
An approach to the power shortage problem:
Optimal allocation of existing excess reserves through interregional transmission 07 p0144 N75-24147 [PB-238578/9] 07 p0144 N75-24151 Solar energy for process steam generation
[PB-238109/3] 07 p014 07 p0145 N75-24154 Path to self-sufficiency directions and constraints, appendices --- a computer program that calculates energy resource requirements [PB-239277/7]
NSF-RANN energy abstracts. A monthly abstract 07 p0145 N75-24155 07 p0145 N75-24157 A monthly abstract journal of energy research [ORNL-EIS-74-52-VOL-2-NO-6] 07 p0146 N75-24532

Energy recovery from solid waste. Volume 2: Technical report --- pyrolysis and biodegradation [NASA-CR-2526] 07 p0148 N75-2529: [NASA-CR-2526] 07 p0148 N75-25292 Heeting California's energy requirements, 1975 -2000 07 p0149 N75-25297 Solar Energy Research, Development, and Demonstration Act of 1974 [GPO-39-827] 07 p0 07 p0149 N75-25299 Energy policy and resource management [GPO-33-634] 07 ; 07 p0149 N75-25300 Energy legislation --- energy conservation and resources management [GPO-33-571] 07 p0149 N75-25301 Heat exchangers for sea solar power plants
[PB-239369/2] 07 p0150 N75-25319 [PB-239369/2] 07 p01. Various research tasks related to energy information and data activities: Task 4 priorities analysis [PB-240424/2] 07 p0151 N75-25329 Five year program planning document for end use energy conservation, research, development, and demonstration [PB-240406/9]
Environmental statement related to the proposed
Union Electric
Union Electric 07 p0152 N75-25331 Company docket nos. STN 50-483 and STN 50-486 [PB-240193/3] 07 p0152 N75-25349 Atlantic outer continental shelf energy resources: An economic analysis [CON-75-10330/9] 07 p0152 N75-26484 Mineral resources and the environment --- energy conservation and energy policy [PB-239579/6] 07 p0153 N75-26486 Using systems methods for analysing integrated energy supply, summary
[BLL-CE-TRANS-6473-(9022.09)] 07 p0153 N75-26491 Fuel use in the US electrical utility industry, 1971 - 1990 07 p0154 N75-26493 Research on solar cell arrays and electric energy [PB-239338/7] 07 p0155 N75-26504 Solar heating experiment on the Grover Cleveland School, Boston, Massachusetts [PB-239516/8] 07 p0155 N75-26505 Study on electrofluid dynamic power generation
[AD-A004762] 07 p0155 N75-26507 [AD-A004762] 07 p0155 N75 Design and test report for transportable solar laboratory program [PB-240609/8] 07 p0156 N75-26512 Digest of energy facts for water resources studies in Minnesota [PB-239961/6] 07 p0156 N75-26515 The study of priorities in the electrical energy allocation problem
[PB-239762/8] 07 p0156 N75-2 07 p0156 N75-26516 The prospects of energy demand scheduling 07 p0156 N75-26518 [PB-239763/6] Research and development of low cost processes for integrated solar arrays [PB-239760/2] 07 p0156 N75-26519 Conservation and better utilization of electric power by means of thermal energy storage and solar heating [PB-239395/7] Q7 p0157 N75-26521 Conservation and better utilization of electric power by means of thermal energy storage and solar heating, executive summary [PB-239394/0] 07 p0157 N75-26522 Materials requirements for advanced energy systems: New fuels. Volume 3: Materials research needs in advanced energy systems using new fuels [AD-A004550] Conservation in Alberta, 1973 07 p0158 N75-27168 07 p0158 N75-27532 An annotated bibliography [NASA-TM-X-66766] Energy: An annotated bibliography 07 p0159 N75-27557 [NASA-TM-X-72433] 07 p0159 N75-27558 Technology assessment of portable energy RDT and P [NASA-CR-137655] 07 p0160 N75-27565
Proceedings of the 2nd Annual Illinois Energy Conference [PB-240548/8] 07 p0161 N75-27575 Current energy shortages oversight series: Oil brokers, part 7 [GPO-32-607] 07 p0161 N75-2 07 p0161 N75-27576

Project conserve, a pilot project in homeowner	
energy conservation [PB-240407/7] 07 p0161 N75-27577	
The household energy game [COM-75-10304/4] 07 p0161 N75-27578	
Energy rationing and energy conservation:	
Poundations for a social policy [PB-239766] 07 p0162 N75-27579	
The problem of peak load pricing subject to rate of return constraint	
[PB-239765] 07 p0163 N75-27964 National materials policy earth resources	
management	
[PB-240941/5] 08 p0199 N75-28503 Uranium resources to meet long term uranium	
requirements [PB-239515/0] 08 p0199 N75-28508	
A summary of significant results in mining	
metallurgy and energy, Bureau of Mines Research 1974	
[PB-241084/2] 08 p0199 N75-28514 Peasibility study of solar energy utilization in	
modular integrated utility systems	
Technological feasibility of alternative energy	
sources a discussion of coal gasification, geothermal energy, and shale oil	
[AD-A005549] 08 p0199 N75-28522	
Workshop on Pundamental Research in Homogeneous catalysis as Related to US Energy Problems	
[PB-240177/6] 08 p0200 N75-28524 Transportation energy conservation: A program	
plan of policy-oriented research [PB-240734/4] 08 p0200 N75-28528	
Institutional and legal constraints to cooperative	
energy research and development [PB-240929/0] 08 p0200 N75-28530	
Research applied to solar thermal rower systems [PB-241090/0] 08 p0201 N75-28544	
Direct solar energy conversion for large scale	
terrestial use [PB-241007/4] C8 p0201 N75-28545	
Measure for reducing energy consumption for homeowners and renters	
[PB-240472/1] 08 p0201 N75-28546 Producing SNG by hydrogasifying in situ crude	
shale oil	
[PB-240841/7] 08 p0201 N75-28548 The benefits/costs of tertiary oil recovery	
[PB-240463/0] 08 p0201 N75-28552 Extracting minerals from geothermal brines: A	
literature study	
[PB-240681/7] 08 p0202 N75-29545 Solar energy power system	
[NASA-CASE-MFS-21628-2] 08 p0202 N75-29548 Alternative strategies for optimizing energy	
supply, distribution, and consumption systems on Naval bases. Volume 3: Assessment of total	
energy system applications at Naval facilities	
[AD-A003590] 08 p0202 N75-29550 Assessment of a single family residence solar	
heating system in a suburban development setting	
[PE-240784/9] 08 p0203 N75-29552 Review of Project Independence Blueprint: Panel subcommittee reports on PRA-interagency task	
forces	
[COM-75-10500/7] 08 p0203 N75-29553 Oil and US policy	
[AD-A006473] 08 p0203 N75-29558	
Energy conservation study of Veterans Administration hospitals. Stage 1: Base line	
survey [PB-241095/9] 08 p0203 N75-29559	
Energy conservation study of Veterans Administration hospitals. Stage 2: Operational	
study	
[PB-241096/7] 08 p0203 p75-29560 Energy conservation study of Veterans	
Administration hospitals. Stage 3: Hospital energy control system	
[PB-241097/5] 08 p0203 N75-29561	
Energy conservation study of Veterans Administration hospitals. Stage 4: Basic	
detail data for stage 1, 2, and 3 [PB-241098/3] 08 p0203 N75-29562	
Assessment of a single family residence solar	
heating system in a suburban development setting [PB-240553/8] 08 p0203 N75-29570	

```
Environmental regulations and energy for home
    [PB-240699/91
                                                08 p0203 N75-29587
 Evaluation of pollution control in fossil fuel
    conversion processes: Gasification. Section 1:
    CO2 acceptor process
[PE-241141/1]
                                                08 p0204 N75-29596
 Report to Congress on control of sulfur oxides
[PB-241021/5] 08 p0204 N75-29597
 [PB-241021/5]
The MCL-Thurow model supplement
    [PB-241113/0]
                                                08 p0204 N75-29952
 Economic impact of shortages on the fertilizer
    industry
    [PB-240418/4]
 Regional impacts of alternative energy allocation
strategies --- environmental impact of energy
crisis and its shortages
    [PB-241125/4]
                                                08 p0205 N75-30667
Energy data requirements of the Federal
   Government. Part 4: Propane and crude oil; conflicts of interest
    [GPO-41-639]
                                                08 p0207 N75-31566
 Solar collector performance evaluation with the
   NASA-Levis solar simulator-results for an all-glass-evacuated-tubular selectively-coated
   collector with a diffuse reflector [NASA-TH-X-71695] 08
                                                08 p0207 N75-31568
Benefit-cost methodology study with example application of the use of wind generators
   [NASA-CR-134864]
                                                08 p0207 N75-31571
Energy conversion [AD-A009600]
[NU-AUU9600] 08 p0208 N75-31580 Solar energy projects of the Federal Government [PE-241620/4] 08 m0209 N75 COLUMN Pinancial incontinuation
Pinancial incentives and pollution control: A.
   case study
   [PB-241479/5]
                                                08 p0208 N75-31610
 Effects of the energy crisis on employment
   dislocation, 1974
   [GPO-35-761]
                                                08 p0208 N75-31918
 Providing for a national fuels and energy
   conservation policy, establishing an office of energy conservation in the Department of the
   Interior, and for other purposes
[H-REPT-93-1546]
                                                08 p0208 N75-31953
The need for a national materials policy, part 1 (GPO-39-885)
The need for a national materials policy, part 2 (GPO-40-687)

Representational materials policy, part 2 08 p0209 N75-31955
The need for a national materials policy, part 3 [GPO-40-687] 08 p0209 N75-31956
Outer continental shelf oil and gas leasing off
southern California: Analysis of issues
[GPO-41-659] 08 p0209 N75-3
Outer continental shelf oil and gas development
                                               08 p0209 N75-31958
   and the coastal zone
   [GPO-39-356]
                                               08 p0209 N75-31959
To establish an Energy Research and Development
Administration and a Nuclear Energy Commission
   [GPO-28-963]
                                               08 p0209 N75-31960
Energy use of public transit systems [PB-241351/6] 08
                                               08 p0209 N75-31962
Energy statistics
[GPO-37-143]
                                               08 p0210 $75-32587
The NASA-Lewis/ERDA solar heating and cooling
   technology program --- project planning/energy
   policy
   [NASA-TM-X-71800]
                                               08 p0210 N75-32592
Power shortage contingency program for the Pacific Northwest. Legislative, regulatory and
   institutional aspects
   [PB-241323/5]
                                               08 p0211 N75-32601
Identification and characterization of the use of
   mixed conventional and waste fuels --- fuel
   consumption/air pollution
[PB-241821/8] 08 p0211 N75-32606
Incorporating energy conservation techniques in
the operation of existing LeRC R and D facilities
--- energy policy/NASA programs
[NASA-TH-X-71813] 08 p0212 N75-33494
Study on the effects of the energy crisis and 55
mph speed limit in Michigan
   [PB-241843/2]
                                               08 p0212 N75-33499
Hot water hydraulics of the Gulf Stream sited OTGH
                                               08 p0213 N75-33502
```

SUBJECT INDEX EBERGY SOURCES

Research design construction and evaluation of a The 1973 fuel and electrical energy requirements low energy utilization school, research phase 1
[PB-242217/8]
08 p0213 #75-33504 of selected mineral industries activities 07 p0134 H75-22899
Evaluation of the energy perfection of the
different forms of transport --- aerodynamic systems approach to innovative solutions to the A systems approach to innovative solutions to the energy problem
[PB-242189/9]
Project Independence report: A review of US energy needs up to 1985
[PB-242142/8]
Plausibility of a restricted energy use scenario
[COM-75-10749/0]
An analysis of the fluid motion into the condenser intake of a 400 mW(e) ocean thermal difference power blant —— budged water-energy coefficients and lift drag ratio 07 p0137 #75-23392 TAD-A0065621 Path to self-sufficiency directions and constraints, appendices --- a computer program that calculates energy resource requirements [PB-239100/1] 07 p0145 N75-24155 [PB-253107] Materials technology in the near-term energy program [PB-240942/3] 08 p0205 N75-30665 Special Energy Research and Development
Appropriation Act, 1975
[PUB-LAW-93-322] 08 p0 power plant --- hydrodynamics/sea water-energy policy [PB-242569/2] 08 p0213 B The future of the US nuclear energy industry 08 p0213 #75-33508 08 p0209 N75-31957 ENERGY SOURCES The ruture of the policy of the ruture of the policy of th Bnergy carriers in space conditioning and automotive applications - A comparison of hydrogen, methane, methanol and electricity The economic impact of an interruption in United 05 p0005 A75-10540 States petroleum imports: 1975 [AD-A010914] - 2000 Energy from urban wastes 05 p0006 A75-10548 08.p0214 N75-33931 The economics of the natural gas shortage Independent energy systems for better efficiency (1960-1980) 05 p0006 A75-10549 [PB-242166/7] 08 p0214 N75-33932 Metal hydride fuel cell power source 05 p0008 A75-10564 BRERGY BEQUIREMENTS Nuclear energy requirements for hydrogen production from water Geothermics with special reference to application -- Book 05 p0005 A75-10533 05 p0011 A75-11576 The Energy Systems Optimization Computer Program
/BSOP/ developed for Modular Integrated Utility
Systems /HIUS/ analysis Energy development: Proceedings of the Energy Sources Conference, Anaheim, Calif., July 14-19, 05 p0012 A75-12986 U.S. energy resources - Outlook for the future 05 p0014 A75-12999 A comparison of methods for electric power 05 p0006 A75-10551 Hission applications of electric propulsion
[AIAA PAPER 74-1085] 05 p0010
Rating aircraft on energy 05 p0010 A75-11284 05 p0015 A75-14346 generation from geothermal hot water deposits [ASHE PAPER 74-WA/EMER-10] 05 p0016 A75-Energy Delta: Supply vs. demand; Proceedings of the Energy Symposium, San Francisco, Calif., February 25-27, 1974 Laser compression of matter - Optical power and 05 p0016 A75-16841 energy requirements 06 p0046 A75-22352 Energy systems - Modeling and policy analysis 06 p0055 A75-24750 06 p0059 A75-27778 Solar/hydroelectric combined power systems
06 p0059 A75-27786
Current worldwide utilization and ultimate Energy supply and demand challenges and some possible solutions 06 p0059 A75-27779 Time factors in slowing down the rate of growth of demand for primary energy in the United States potential of geothermal energy systems 06 p0060 A75-27787 06 p0059 A75-27780 New technology challenges in exploration, exploitation and environmental impact of Energy: A plan for action --- Book 07 p0110 A75-30375 geothermal systems Energy's hazy future --- electric generating 06 p0060 A75-27788 capacity scenarios and forecasts Hydrogen - A carrier of energy 07 p0110 A75-31195 06 p0060 A75-27791 On the role of hydrogen in electric energy storage 08 p0178 A75-44797 Urban waste energy resources [AIAA PAPER 75-632] 06 p0062 A75-28598 An economic study of electrical peaking alternatives 08 p0179 A75-44799 Energy, environment and building --- Book 07 p0111 A75-31448 Future United States demand patterns and the use Energy sources for ocean technology --- for of hydrogen unmanned surface stations and manned underwater 08 p0179 A75-44806 stations An engineering assessment of the hydrogen economy 08 p0180 A75-44814 Remote sensing applied to energy-related problems; Proceedings of the Symposium-Course, Miami, Fla., December 2-4, 1974 Availability and propulsion --- fuel combustion energy calculations for turbojet 07 p0118 A75-35451 Geothermal energy as a resource in a hydrogen 08 p0195 A75-46548 power supply and energy storage review meeting 05 p0031 N75-12445 [WASH-1310] energy economy 08 p0174 A75-44755 Energy required to develop power in the United High-temperature nuclear reactors as an energy States source for hydrogen production 05 p0032 N75-13378 MEGASTAR: The meaning of growth. 08 p0175 A75-44758 An assessment Sources and methods for methanol production of systems, technologies, and requirements ---methodology for display and analysis of energy 08 p0180 A75-44816 production and consumption The utilization of space as a source of energy for NASA-CR-120338] 05 p0033 N75-13381 08 p0183 A75-45893 US energy flow charts for 1950, 1960, 1970, 1980, Oslo's future power supply FNP-20121 06 p0067 N75-16087 1985, and 1990 [UCRL-51487] Energy problems in a global context 06 p0075 N75-16978 05 p0024 N75-10593 Advanced nuclear research
[GPO-41-253] 05 p0026 W
Elimination of duty on methanol imported for Energy resources and utilization 06 p0075 N75-16983 Proceedings of the Workshop on Needs for 05 p0026 N75-10764 certain uses [H-REPT-93-998] Pundamental Research in Catalysis as Related to [H-REPT-93-998] 05 p0026 N75-10857 Public works for water and power development and Atomic Energy Commission Appropriation Bill, the Energy Problem [PB-236683/9] L:0-230083/9] 06 p0078 H75-17006 Hydrogen economy: A utility perspective [BNL-19267] Part 6: Tennessee Valley Authority 2-403] 05 p0026 N75-10859 [GPO-32-403]

EBERGY STORAGE SUBJECT INDEX

·	
Outlook for fusion energy sources: Remaining	Ainse Engineering Conference energy report
technological hurdles	[COMF-740814-ABSTS] 07 p0129 H75-21801
[UCRL-75418] 05 p0029 H75-11745	A review of the Project Independence report
Solar sea thermal energy [GPO-37-476] 05 p0030 #75-12430	submitted to Office of Energy Research and Development, Bational Science Foundation, 10
Oil for the free world in the 1970's demand	January 1975
and supply	[PB-238791/8] 07 p0131 B75-21823
[AD-779352] 05 p0031 H75-12448 MEGASTAR: The meaning of growth. An assessment	Technology assessment of portable energy RDT and P. phase 1
of systems, technologies, and requirements	[HASA-CR-137654] 07 p0134 N75-22901
methodology for display and analysis of energy	Technology assessment of portable energy RDT and
production and consumption	P, phase 1
[NASA-CR-120338] 05 p0033 N75-13381 A system utilizing solar energy	[HASA-CR-137653] 07 p0134 H75-22902 The economics of energy and natural resource pricing
[NASA-TT-F-16089] 05 p0033 N75-13386	[GPO-48-071] 07 p0141 B75-24115
Hydrogen as a fuel analysis of problems	Energy and foreign policy
involved in generation, transportation, and utilization	[GPO-22-562] 07 p0142 N75-24125 The impact of energy shortages on the iron and
[AD-737484] 06 p0066 N75-15818	steel industries
Energy from US and Canadian tar sands: Technical,	[PB-238749/6] 07 p0145 F75-24158
environmental, economic, legislative, and policy	National energy flow accounts
aspects [GPO-43-005] 06 p0067 b75-16083	[PB-239275/1] 07 p0146 H75-24539 Energy recovery from solid waste. Volume 2:
Geothermal energy: A new application of rock	Technical report pyrolysis and biodegradation
mechanics	[NASA-CR-2526] 07 p0148 H75-25292
[LA-UR-74-821] 06 p0068 N75-16089 NSF-RANN energy abstracts	Environmental impacts, efficiency, and cost of energy supply and end use, volume 2
[ORNL-EIS-74-52-VOL-2-5] 06 p0068 H75-16092	[PB-239159] 07 p0149 H75-25306
Workshop proceedings: Photovoltaic conversion of	Using systems methods for analysing integrated
solar energy for terrestrial applications.	energy supply, summary
Volume 1: Working group and panel reports [NASA-CR-138209] 06 p0069 N75-16097	[BLL-CE-TRANS-6473-(9022.09)] 07 p0153 N75-26491 Residential energy consumption and small scale
Workshop proceedings: Photovoltaic conversion of	options of energy systems for space heating
solar energy for terrestrial applications.	[PB-239941/8] 07 p0154 H75-26501
Volume 2: Invited papers [NASA-CR-138193] 06 p0069 N75-16098	Soviet energy potential [BLL-M-23413-(5828.4F)] 08 p0199 N75-28516
Possibilities for lithium borohydride recycle	Technological feasibility of alternative energy
using diborane intermediate	sources a discussion of coal gasification,
[ICP-1054] 06 p0074 M75-16651 The 1974 AGARD Annual Meeting: The energy	geothermal energy, and shale oil [AD-A005549] 08 p0199 N75-28522
problem: Impacts on military research and	An overview of alternative energy sources for LDCs
development	[PB-239465/8] 08 p0200 H75-28529
06 p0075 N75-16977 Energy problems in a global context	The long term energy problem and aeronautics 08 p0202 N75-29012
06 p0075 N75-16978	Materials technology in the near-term energy program
Energy-related research and development in the	[PB-240942/3] 08 p0205 N75-30665
United States Mir Porce 06 p0075 N75-16979	A regional energy information system for
Alternative fuels for aviation	Minnesota: A preliminary design [PB-241124/7] 08 p0205 N75-30944
06 p0075 N75-16980	National Bureau of Standards annual report:
Energy resources and utilization	Piscal year 1974 including a discussion of
06 p0075 N75-16983 Energy and cryoengineering	measuring instruments, energy, safety engineering, and computers
[LA-UR-74-741] 06 p0082 B75-17814	[COM-75-10465/3] 08 p0206 N75-30948
Methanol from forestry, municipal, and	Technology survey of electrical power generation
agricultural organic residues [BNWL-SA-5053] 06 p0085 H75-18702	and distribution for HIUS application [NASA-TH-X-58127] 08 p0207 N75-31573
Steps into the future. Development of the power	Science and Technology Applications Act of 1974
industry in the USSR	energy sources and environment protection
[BLL-M-23330-(5828.4F)] 06 p0085 B75-18714 Pyrolysis system evaluation study	[GPO-41-407] 08 p0209 E75-31961 EMERGY STORAGE
[HASA-CR-141664] 06 p0086 N75-18722	Metal hydrides for thermal energy storage
Prospect for geothermal power	05 p0004 A75-10522
[LA-UR-74-1111] 06 p0086 H75-18723 In situ oil shale: A cost sensitivity analysis	Energy storage for utilities via hydrogen systems 05 p0005 A75-10537
[SAND-74-0146] 06 p0087 N75-18727	Closed loop chemical systems for energy
Conference proceedings: Power Generation-Clean	transmission, conversion and storage
Puels Today . [PB-237661/4] 06 p0087 N75-18735	05 p0005 A75-10538 Thermal energy storage devices suitable for solar
Study of potential problems and optimum	heating
opportunities in retrofitting industrial	05 p0007 A75-10553
processes to low and intermediate energy gas	Electrically rechargeable redox flow cells 05 p0008 A75-10573
from coal [PB-237116/9] 06 p0088 H75-18739	Solar energy conversion and storage systems for
Interesting possibilities of fusion-fission	the future
for thermonuclear power generation	05 p0013 A75-12988
[BHWL-SA-5069] 06 p0096 H75-20106 The National Geothermal Energy Research Program	Energy storage undergound hydroelectric pumped-storage and combustion turbine facilities
06 p0098 H75-20832	05 p0013 A75-12989
Geothermal research and development program of the	Pumped air storage for electric power generation
US Atomic Energy Commission 06 p0098 N75-20834	05 p0013 A75-12990 The Hydrogen Economy - A utility perspective
Hydrogen economy: A utility perspective	energy technology
[BNL-19267] 106 p0103 N75-20870	05 p0014 A75-12998
United States transportation fuel economics (1975 - 1995)	Potential for large-scale energy storage in electric utility systems
[NASA-TH-X-3197] 06 p0107 N75-21154	[ASME PAPER 74-WA/ENER-9] 05 p0016 A75-16840
Scientific research seeks new sources of energy	
06 p0107 H75-21216	

ENERGY TECHNOLOGY SDBJRCT INDRY

A hot liquid energy storage system utilizing natural circulation [ASME PAPER 74-WA/HT-16] 05 p0017 A75-16862 Solar energy storage within the absorption cycle
[ASME PAPER 74-WA/HT-18] 05 p0017 A75-16864
Beconomics of a hydrogen storage peaking power plant
[ASME PAPER 74-WA/PWR-6] 05 p0018 A75-16880 Optimising pumped storage with tidal power in an estuary 05 p0018 A75-16881 [ASME PAPER 74-WA/PWR-7] An analytical and experimental investigation of a laboratory solar pond model
[ASME PAPER 74-WA/SOL-3] 05 p0019 A75-16 05 p0019 A75-16886 Energy, hydrogen, and pollution --- energy +echnology 06 p0046 A75-22041 Production of hydrogen by the electrolysis of water 06 p0046 A75-22044 Metals and composites in superflywheel energy storage systems 06 p0047 A75-22523 Hydrogen production from solar energy 07 p0109 A75-29477 Design charts for hot liquid energy storage systems utilizing forced circulation [AIAA PAPER 75-742] 07 pt [AIAA PAPER 75-742] 07 p0113 A75-32851
An energy utility company's view of hydrogen energy
08 p0172 A75-42283
Hydrogen as energy storage element --- in
windnower sectors windpower systems 08 p0176 A75-44772 Hydrogen-energy stcrage for electrical utility systems 08 p0178 A75-44798 An economic study of electrical peaking alternatives 08 p0179 A75-44799 Storage of energy in kinetic batteries for an earth resources satellite
[IAF PAPER ST-75-09] 08 p0 183 A75-45875 Energy storage by flywheels 08 p0185 A75-45930 Design and test of a flywheel energy storage unit for spacecraft application 08 p0193 A75-46028 The rate limiting processes for the sorption of hydrogen in LaNi5 --- for energy storage systems 08 p0194 A75-46036 A detailed analysis of the hydriding characteristics of LaNi5 --- hydrogen storage in form of metal hydrides 08 p0194 A75-46038 Energy transportation, distribution, and storage
[NASH-1281-4] 05 p0024 N75-10595 [WASH-1281-4] Energy storage for the electric power industry
[LA-UR-74-918] 05 p0031 N75-12447 [LA-UR-74-918] 05 p0031 N75-12 Superconducting magnetic energy storage --- theta pinch thermonuclear fusion test reactor [LA-UR-74-737] 05 p0032 N75-12814 Methods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch Superconducting switch
[LA-563]-MS] 05 p0032 N75-13164

Development of advanced fuel cell system, phase 2
[NASA-CR-134721] 06 p0067 N75-16084

[BLL-M-23516-(5828.4P)] 06 p0074 N75-16968 High energy battery program at Argonne National Laboratory [ABL-8064]

Rnergy storage for utilities via hydrogen systems
[BBL-19266]

Economic and system accounts Economic and system aspects of a superconducting magnetic energy storage device and a dc superconducting transmission line [LA-UR-74-1145] 06 p0091 N75-1 06 p0091 N75-19080 Hydrogen storage and production in utility systems
[BHL-18920] 06 p0097 N75-20580
Hydrogen economy: A utility perspective
[BHL-19267] 06 p0103 N75-20870 Hydrogen storage and production in utility systems
[BHL-19249] 06 p0103 N75-20873 Wisconsin superconductive energy storage project, Volume 1
[PB-238082/2] 06 p0105 N75-20887 Plywheel energy systems [SAND-74-0113] 07 p0129 N75-21802 On the application of hydrogen as a fuel for automotive vehicles [ESRO-TT-132]

07 p0135 N75-22910

Research applied to solar thermal systems [PB-241089/2] 08 p020 08 p0200 N75-28543 Design of energy storage reactors for dc-to-dc converters [NASA-CR-143327] 08 p0204 N75-30438
An assessment of the applicability of high voltage
AC circuit breakers to inductive energy storage
08 p0206 N75-31341
Cost and size estimates for an older of the cost and size estimates for an older of the Cost and size estimates for an electrochemical bulk energy storage concept [NASA-TM-X-71805] 08 p0210 N75-32593 ENERGY TECHNOLOGY Nuclear propulsion technology transfer to energy systems [AIAA PAPER 74-1072] 05 p0001 A75-10264 Intersociety Energy Conversion Engineering Conference, 9th, San Francisco, Calif., August 26-30, 1974, Proceedings 05 p0001 A75-10476 Technology considerations for Organic Rankine Cycle Electric Power Systems 05 p0002 A75-10484 NASA objectives for improved solar power plants 05 p0002 A75-10485 RTG technology development - Where we are/where we are going -- radioisotope thermoelectric generator 05 p0002 A75-10496 Economics analyses of solar energy utilization 05 p0004 A75-10520 Status of JPL solar powered experiments for terrestrial applications 05 p0005 A75-10530 Operating experiences with terrestrial solar battery systems in Japan 05 p0005 A75-10531 Nuclear energy requirements for hydrogen production from water . 05 p0005 A75-10533 Hydrogen for the electric utilities - Long range possibilities 05 p0005 A75-10536 Oxides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 Potential of Rankine engines to produce power from waste heat streams 05 p0006 A75-10547 Energy from urban wastes 05 p0006 A75-10548 A heat pump powered by natural thermal gradients 05 p0006 A75-10550 A review of thermal battery technology 05 p0007 A75-10557 Combustion R&D - Key to our energy future --pollution reduction using hydrocarbon fuels 05 p0009 A75-10596
Applications of plasma core reactors to
terrestrial energy Applications of plasma core reconstructions of plasma core reconstruction in page 74-1074]

Coal-gas combustion in industrial gas turbines
05 p0010 A75-11286 Power conversion of energy fluctuations 05 p0011 A75-11497 An evaluation of discarded tires as a potential source of fuel 05 p0012 A75-12416 Solar energy: Technology and applications --- Book 05 p0012 A75-12425 Energy development: Proceedings of the Energy Sources Conference, Anaheim, Calif., July 14-19, 05 p0012 A75-12986 Utilization of solar energy today 05 p0012 A75-12987 Solar energy conversion and storage systems for the future 05 p0013 A75-12988 Pumped air storage for electric power generation 05 p0013 A75-12990 The impact of advanced batteries on electric power generation 05 p0013 A75-12991 The FCG-1 fuel cell powerplant for electric utility use 05 p0013 A75-12992 Progress in coal gasification 05 p0013 A75-12993

Tidal power and its integration into the electric Hydrogen fuel cells and motors --- new energy system technology 05 p0013 A75-12994 06 p0046 A75-22042 Production of hydrogen by the electrolysis of water 06 p0046 A75-22044 Pusion power research - Where do we stand 05 p0013 A75-12995 Windpower - Look backward, then move forward confidently --- for electric power generation in Material considerations involved in solar energy conversion rural areas 06 p0047 A75-22522 05 p0014 A75-12997 Liquid hydrogen as an automotive fuel The Hydrogen Economy - A utility perspective --06 p0048 A75-23238 energy technology Nonconventional energy systems: Meeting 05 p0014 A75-12998 Duesseldorf, West Germany, June 20, 21, 1974, U.S. energy resources - Outlook for the future 06 p0049 A75-23501
The production of gaseous energy carriers from 05 p0014 A75-12999 Advances in space power generation [IAF PAPER 74-086] 05 p0015 A75-13718 Prospects for tapping solar energy on a large scale 05 p0015 A75-14014 06 p0049 A75-23502 Energy supply in a closed cycle --- nuclear energy
for nonelectrical use Solar cells - Operation, development and applications 06 p0049 A75-23503 Hydrogen as energy carrier in industry and household 06 p0049 A75-23505 05 p0015 A75-15201 The use of hydrogen as an energy carrier 05 p0015 A75-15795 Methanol as fuel for vehicle engines 06 p0050 A75-23506 Methane gas engines for commercial vehicles and Comparative performance characteristics of cylindrical parabolic and flat plate solar energy collectors
[ASME PAPER 74-WA/ENER-3] busses [ASHE PAPER 74-WA/ENER-3] 05 p0016 A75-16835 Progress in development of auxiliary MHD power 06 p0050 A75-23507 Hydrogen as fuel for internal-combustion engines plant components at Avco Everett Research 06 p0050 A75-23508 Laboratory, Inc
[ASME PAPER 74-WA/ENER-6] Considerations regarding a utilization of solar energy --- thermal, electric and wind energy [ASME PAPER 74-WA/ENER-6] 05 p0016 A75-16838
Two-stage methane rroduction from solid wastes
[ASME PAPER 74-WA/ENER-11] 05 p0017 A75-16842 systems 06 p0050 A75-23510
The introduction of the principles of biological
energy supply in future technical systems Solar selective surfaces made of semiconducting powders [ASME PAPER 74-WA/HT-13] 06 p0050 A75-23511 05 p0017 A75-16857 Other primary energy resources --- geothermal, tidal, wind, waterwave and glacier energy utilization Solar radiation heat transfer to high temperature heat carriers [ASME PAPER 74-WA/HT-14] 05 p0017 A75-16861 Performance of heat pumps using cold-side energy 06 p0050 A75-23512 storage and unconventional heat sources
[ASHE PAPER 74-WA/HT-17] 05 p001 Report on photovoltaics research and technology in the United States 05 p0017 A75-16863 Power from ocean waves 06 p0051 A75-24214 [ASME PAPER 74-WA/PWR-5] 05 p0018 A75-16879 Gasification of solid wastes in fixed beds
[ASME PAPER 74-WA/PWR-10] 05 p0018 A75-16882 Coal gasification by Atomics International's Historic development of photovoltaic power generation 06 p0051 A75-24215 CdS-Cu2S cells - An outlook for terrestrial applications Rockgas process [ASME PAPER 74-WA/PWR-11] 05 p0018 A7: A case study - Utilization of solar energy in residential dwellings 05 p0018 A75-16883 06 p0052 A75-24223 Progress in the development of cadmium sulphide terrestrial solar batteries [ASHE PAPER 74-WA/SOL-2] 05 p0018 A75-16885
Performance of the thermal trap solar collector
[ASHE PAPER 74-WA/SOL-5] 05 p0019 A75-16888 06 p0052 A75-24224 Solar one - The Delaware solar house and results obtained during the first year of operation . Assessment of Rankine cycle for potential 06 p0054 A75-24254 Assessment of Mankine cycle for potential application to solar-powered cooling of buildings [ASME PAPER 74-WA/SOL-7] 05 p0019 A75-16890 Dynamic simulation for performance analysis of solar heated and cooled buildings [ASME PAPER 74-WA/SOL-8] 05 p0019 A75-16891 The energy perspective --- world fossil fuel reserves and alternate energy sources Some aspects of a solar battery system and its use for irrigation in remote sun-rich regions 06 p0054 A75-24256 Solar generators for terrestrial applications 06 p0054 A75-24257 Terrestrial applications of FEP-encapsulated solar cell modules --- power systems using Pluorinated 05 p0019 A75-17000 Ethylene Propylene encapsulation Energy problems - Solar energy and manure gas 05 p0020 A75-17024 06 p0054 A75-24258 The Mitre solar energy demonstration system 06 p0055 A75-24676 Application of thermodynamic and material- and Design of a tubular heat collector for a solar power installation with a parabolocylindric energy-balance calculations to gasification concentrator 05 p0020 A75-17069 processes Some generalizations of sample water-supply 06 p0055 A75-24785 calculations for solar-powered pumping plants
05 p0020 A75-17077
Effectiveness of using semiconductor heat pumps Review of central power magnetohydrodynamics
[AIAA PAPER 75-264] 06 p0055 A75-25005
The Electric Power Research Institute's role in under the conditions of the Turkmen SSB applying superconductivity to future utility 05 p0020 A75-17083 Wind energy developments in the 20th century systems 06 p0056 A75-25827 05 p0020 475-17503 Will superconducting magnetic energy storage be Concepts for central solar electric power generation 05 p0021 A75-17504 used on electric utility systems 06 p0056 A75-25832 Theory of heat extraction from fractured hot dry Pusion power - Prospects and impact 05 p0021 A75-18080 rock $$06\,$ p0057 A75-26544 Testing of a photoelectric generator in a Compact solar energy concentrator 05 p0021 A75-19050 Energy. Volume 1 - Demands, resources, impact, mountainous region of the Azerbaidzhan SSR technology, and policy --- Book 06 p0057 A75-26714 Solar cells - Present state and perspectives on 06 p0045 A75-20066 terrestrial applications Energy, hydrogen, and pollution --- energy technology 06 p0058 A75-27716 06 p0046 A75-22041

The future of silicon solar cells for terrestrial 06 p0058 A75-27717 Thermoelectric generators --- using semiconductor thermocouples 06 p0058 A75-27718 Energy Delta: Supply vs. demand; Proceedings of the Energy Symposium, San Francisco, Calif., Pebruary 25-27, 1974 06 p0059 A75-27778 Coal gasification - A review of status and technology 06 p0059 A75-27781 The outlook for fusion energy sources - Remaining technological burdles 06 p0059 A75-27782 Solar heating and cooling of buildings 06 p0059 A75-27783 Roles for solar thermal conversion systems in our energy economy 06 p0059 A75-27784 The Solar Community - Energy for residential heating, cooling, and electrical power 06 p0059 175-27785 Solar/hydroelectric combined power systems 06 p0059 A75-27786 Salt domes, pit craters, and dry steam fields -Heat pipe applications 06 p0060 A75-27789 Ocean thermal power and windpower systems Natural solar energy conversion for near-term impact on world energy markets 06 p0060 A75-27790 Hydrogen - A carrier of energy 06 p0060 A75-27791 Prospects of photosynthetic energy production 06 p0060 A75-27792 Geothernal energy --- technology assessment 06 p0060 A75-27826 Pundamental research on the selection of new electrochemical generators of medium power 06 p0060 A75-27827 Cryogenics safety in a hydrogen fuel society
06 p0061 175-27973 SIMSHAC - A simulation program for solar heating and cooling of buildings 06 p0061 A75-28093 Characteristics of a rocking wave power device --for waterwave energy conversion 06 p0062 A75-28450 The solution of information-deficiency problems of electroenergy technology --- optimal decision 06 p0062 A75-28508 Systems aspects of ocean thermal energy conversion [AIAA PAPER 75-615] 06 p0062 A75-28593 Site limitations on Solar Sea Power Plants [AIAA PAPER 75-618] 06 p0062 A75-28594 100 MWe solar power plant design configuration and performance [AIAA PAPER 75-623] 06 p0062 A75-28595 A central receiver solar power plant in a hybrid mode of operation --- solar/fossil-fueled steam power plant
[AIAA PAPER 75-624] 06 p0062 A75-28596 Solar electric and thermal conversion system in close proximity to the consumer --- solar panels on house roofs
[AIAA PAPER 75-628] 06 p0062 A75-28597 The oceanic biomass energy plantation harvesting for food and fuel
[ATAM PAPER 75-635] 06 p0063 A75-28
The satellite solar power station - An option for energy production on earth 06 p0063 A75-28599 [AIAA PAPER 75-637] 06 p0063 A75-28600 Gulf stream based ocean thermal power plants
[AIAA PAPER 75-643] 06 p0063 A75-28603 Ocean thermal energy conversion system evaluation
[AIAA PAPER 75-616] 06 p0064 A75-29115
Tropical ocean thermal power plants and potential products [AIAA PAPER 75-617] 06 p0064 A75-29116 Solar thermal conversion mission analysis [AIAA PAPER 75-640]

GOING HISSION CALLS AND CALLS AND CALLS AND CONTROL OF A TOTAL SATELLITE CONSUMPTION [AIAA PAPER 75-640]

OG POOG4 A75-29 06 p0064 A75-29117

06 p0064 A75-29118

Solar ponds for space heating --- energy storage by convectionless shallow water 07 p0109 A75-29471. Design and construction of a residential solar heating and cooling system 07 p0109 A75-29472 Modeling of the CSU heating/cooling system ---Colorado State University solar house computer simulation 07 p0109 A75-29473 A method of simulation of solar processes and its application --- energy collection processes
07 p0109 A75-29474 Hydrogen production from solar energy 07 p0109 175-29477 Performance of a solar battery using quasi-cylindrical array of plane mirrors as a concentrator 07 p0109 A75-29478 Bnergy: A plan for action --- Book 07 p0110 A75-30375 Utilization of wind energy 07 p0110 A75-30891 Energy's hazy future --- electric generating capacity scenarios and forecasts 07 p0110 A75-31195 Solar energy for earth: An AIAA assessment --- Book 07 p0110 A75-31267 Solar heating and cooling 07 p0111 A75-31269 Solar-thermal electric power 07 p0111 A75-31270 Photovoltaic power --- solar energy for terrestrial applications 07 p0111 A75-31271 Geosynchronous satellite solar power --- energy transmission to earth 07 p0111 A75-31272 Wind power --- electricity generation 07 p0111 A75-31273 Ocean thermal energy conversion 07 p0111 A75-31274
Fuel production /biomass energy/ --- by fuel plantation development Energy, environment and building --- Book 07 p0111 A75-31448
Pilot solar air-conditioning plant and results of its use 07 p0111 A75-31512 Theoretical research on the operation of a solar water heater and comparison with experimental data 07 p0112 A75-31515 Solar production of electrical energy 07 p0112 A75-31588 Solar energy and architecture 07 p0112 A75-31698 Minimum cost solar thermal electric power systems - A dynamic programming based approach
07 p0112 A75-32097
Design charts for hot liquid energy storage
systems utilizing forced circulation
[ATAM PAPER 75-742]
07 p0113 A75-32851
Storage of summertime waste heat from electric generating plants for use in wintertime [AIAA PAPER 75-743] 07 p011 07 p0113 A75-32852 Trapezoidal grooves as moderately concentrating solar energy collectors
[AIAA PAPER 75-738]

Numerical modeling of flat plate solar collectors 07 p0113 A75-32860 [AIAA PAPER 75-739] 07 p0113
Outdoor flat-plate collector performance
prediction from solar simulator test data 07 p0113 A75-32861 [AIAA PAPER 75-741] 07 p0113 A75-32862 Glass solar heat collector development [AIAA PAPER 75-740] 07 p0115 A75-33758 Optimal solar energy collector system 07 p0115 A75-33970 On the optimum tilt of a solar collector
07 p0115 A75-33971
Pield performance and operation of a flat-glass solar heat collector 07 p0115 A75-33973 Analysis of gas dissociation solar thermal power 07 p0115 A75-33974 Underground storage of heat in solar heating systems 07 p0115 A75-33975

Determination of some thermophysical characteristics of a solar-type pebble accumulator 07 p0116 A75-34317	Energy and Resources - A plan is outlined according to which solar and wind energy would supply Denmark's needs by the year 2050
Complex utilization of a solar power plant 07 p0116 A75-34320	solar and wind power utilization for Denmark 07 p0124 A75-37846
Solar heating and cooling of buildings using heat pumps /Brief survey/	Ocean thermal gradient hydraulic power plant 07 p0124 A75-37849
07 p0116 A75-34321 Evaluation of central solar tower power plant	Poam solar sea power plant 07 p0124 A75-37850
07 p0116 A75-34531 A commentary on solar energy	Laser energy conversion 07 p0125 175-38474
07 p0116 A75-34532 Economic and technical aspects of wind generation systems	Satellites for energy transmission to earth - Technical and socioeconomic studies 07 p0125 A75-38644
07 p0116 A75-34533 Puels, minerals, and human survival Book	Can hydrogen transmission replace electricity 08 p0165 A75-38863
07 p0117 A75-34850 Wind energy utilization prospects	Storing electrical energy on a large scale 08 p0165 A75-38864
07 p0117 A75-34928 Modeling of solar absorption air conditioning	The potential of natural energy sources 08 p0165 A75-38865
07 p0117 A75-34932 Reating buildings with solar energy	MHD power generation 08 p0166 A75-39197
07 p0117 A75-34933 Solar characteristics of new absorptive coatings used on solar collectors	Batteries and fuel cells in the electrical generating industry 08 p0166 A75-39198
07 p0117 A75-34934 Methodology of research of flat-plate solar	Lasers for fusion 08 p0166 A75-39333
collector absorptive coatings 07 p0117 A75-34935	Generation of power from the wind windmill electric generators
The University of Florida solar powered intermittent ammonia/water absorption air	08 p0167 A75-39365 Year round performance studies on a built-in
conditioner 07 p0118 175-34936	storage type solar water heater at Jodhpur, India 08 p0167 A75-39406
DPVLR activities in the area of energy research 07 p0118 A75-35096	Radiation cooling of structures with infrared transparent wind screens
Helium survey, a possible technique for locating geothermal reservoirs	08 p0167 A75-39407 Cooling with the sun's heat - Design
O7 p0118 A75-35438 The satellite solar power station option for solar energy transmission to earth	considerations and test data for a Rankine Cycle prototype 08 p0167 A75-39409
07 p0118 A75-35465 Determination of the surface shapes of film-type	Solar absorption air conditioning alternatives 08 p0167 A75-39410
solar energy concentrators with seams 07 p0119 A75-36017	The economics of coal-based synthetic gas 08 p0168 A75-39925
Survey on power fluid for thermal power from low temperature and small temperature difference heat source	Energy - Engineering - Environment; Proceedings of the Seventh Annual Prontiers of Power Technology Conference, Stillwater, Okla., October 9, 10, 1974
07 p0119 A75-36173 Electronbeam heating for fusion	08 p0168 A75-40176 The utilization of ocean energy for electrical
07 p0120 A75-36295 Power collection reduction by mirror surface	energy generation 08 p0168 A75-40181
nonflatness and tracking error for a central receiver solar power system.	Shale from oil shale economically 08 p0168 A75-40182
07 p0120 A75-36305 Solar energy - The physics of the greenhouse effect	Laboratory based activities in solar energy at the National Bureau of Standards
07 p0120 A75-36306 Problems of direct conversion of thermal and	The Plorida Solar Energy Center
nuclear energy to electric energy 07 p0120 A75-36415	08 p0169 A75-40614 Energy survey - What can R&D do by 1985 fossil
Controlling the response of thermoelements that generate electricity 07 p0121 A75-37154	fuel utilization 08 p0169 a75-40617
Generation of electric power at high reliability levels using a group of solar power plants in an	Efficient use of energy 08 p0169 A75-41125 Cooling a light industrial building in Puerto Rico
energy system 07 p0122 A75-37159	using solar energy [AIAA PAPER 75-612] 08 p0170 A75-41178
Principles of a composite study involving combined use of solar and wind energy	A resonant point absorber of ocean-wave power 08 p0170 A75-41425
07 p0122 A75-37160 Generalizations of composite studies involving combined use of wind and solar energy	Pusion power by magnetic confinement - Plans and the associated need for nuclear engineers 08 p0170 A75-41433
O7 p0122 A75-37161 Pull-scale tests of 'photovolt' high-voltage photocells at high light flux levels	Determination of some thermophysical properties of pebble-type solar heat accumulators 08 p0170 A75-41530
07 p0122 A75-37162 Photoelectric generator testing in the Azerbaidzhan SSR mountains	Comprehensive utilization of a solar installation 08 p0170 A75-41533
07 p0122 A75-37165 Pabricating paraboloidal high-temperature solar	Use of solar heat pumps for heating and air conditioning - A brief survey 08 p0170 A75-41534
concentrators from mollified sectors 07 p0122 A75-37166 Summary of WASA-Lewis Research Center solar	Calculation of the radiant energy field for a biparaboloidal radiation furnace with a carbon arc 08 p0170 a75-41540
heating and cooling and wind energy programs 07 p0123 A75-37240	Sunlight to electricity: Prospects for solar energy conversion by photovoltaics Book
Optical interfaces in solar energy utilization 07 p0123 A75-37331	08 p0170 A75-41608 Thermokinetics of a flat solar collector of
MHD energy conversion for high power electrical needs	constant heat capacity 08 p0171 A75-41768

07 p0124 A75-37657

SUBJECT INDEX ENERGY TECHNOLOGY CONTD

Hydrogen energy fundamentals: Proceedings of the Symposium-Course, Miami Beach, Pla., March 3-5, 08 p0171 A75-42276 Research opportunities in cryogenic hydrogen-energy systems 08 p0 171 A75-42280 Aviation usage of liquid hydrogen fuel - Prospects and problems 08 p0172 A75-42282 An energy utility company's view of hydrogen energy 08 p0172 A75-42283 Economics of hydrogen energy systems 08 p0172 A75-42285 A technology assessment of the hydrogen economy concept 08 p0172 A75-42286 Massive production of hydrogen by a thermo-electrochemical method 08 p0172 A75-42531 High intensity wind belts as massive energy sources 08 p0172 A75-42532 . Fuel as an agricultural crop 08 p0 172 A75-42533 Solar energy conversion by water photodissociation 08 p0173 A75-43510 Thermal performance analysis of the stationary reflector/tracking absorber /SRTA/ solar concentrator [ASME PAPER 75-HT-FFF] 08 p0 173 A75-43881 Cryogenic Engineering Conference, Georgia Institute of Technology, Atlanta, Ga., August 8-10, 1973, Proceedings 08 p0173 A75-43976 Cryogenic H2 and national energy needs 08 p0173 A75-43977 Plasma physics and controlled nuclear fusion research 1974; Proceedings of the Fifth International Conference, Tokyo, Japan, November 11-15, 1974. Volumes 1 & 2 08 p0174 A75-44736 Hydrogen energy: Proceedings of the Hydrogen Boonomy Miami Energy Conference, Miami Beach, Pla., March 18-20, 1974. Parts A & B 08 p0174 A75-44751 Is massive solar energy conversion a practical prospect 08 p0174 A75-44752 Nuclear water splitting and high temperature reactors 08 p0175 A75-44757 Sea thermal power as a hydrogen and methanol 08 p0175 A75-44763 An economic perspective on hydrogen fuel 08 p0176 A75-44769 Electrolytic hydrogen generators 08.p0176 A75-44774 An engineering-scale energy storage reservoir of iron titanium hydride --- hydrogen-based energy system 08 p0177 A75-44784 Hydrogen as an energy carrier --- feasibility analysis 08 p0178 A75-44796 Hydrogen-energy storage for electrical utility systems 08 p0178 A75-44798 An economic study of electrical peaking alternatives
08 p0179 A75-44799 An MHD energy storage system comprising a heavy-water producing electrolysis plant and a heavy-water producing electrolysis plant and a H2/02/CSOH HHD generator/steam turbine combination to provide a means of transferring nuclear reactor energy from the base-load regime into the intermediate-load and peaking regimes 08 p0179 A75-44800 Environmental impact of a suitable nuclear power reactor used to provide a process heat system to synthesize fuels 08 p0179 A75-44808 Technical problems facing the hydrogen economy 08 p0180 A75-44812 Ultimate energy, the ultimate fuel, and the
hydrogen link in the electrical energy system
08 p0180 A75-44815
Sources and methods for methanol production

08 p0180 A75-44816

. depletion rates 08 p0180 A75-44817 Effectiveness of using chemically reacting working media in a solar gas-turbine installation 08 p0180 A75-45063 Estimates of the reliability of energy-supply systems employing solar energy 08 p0181 A75-45064 Ion-beam implosion of fusion targets 08 p0181 A75-45386 Solar energy - An overview 08 p0181 A75-45508 Principles and applications of selective solar coatings 08 p0181 A75-45511 Solar-energy materials preparation techniques 08 p0181 A75-45513 Solar-energy conversion at high solar intensities 08 p0181 A75-45514 A potassium topping cycle for public utility power plants MED electrical power generation from fossil fuels
[AIAA PAPER 75-1236] 08 p0182 A75-B8600 Electrochemical heat engines for direct electric power generation and energy storage
[AIAA PAPER 75-1237] 08 p 08 p0182 A75-45649 Consideration of ultra-high temperature nuclear heat sources for MHD conversion systems
[AIAA PAPER 75-1258] 08 p018: [ATAN PAPER 75-1258] 08 p0182 A75-45659 Terrestrial and space applications of the migma controlled fusion concept [AIAA PAPER 75-1263] 08 p0182 A7
Report on studies of space to earth microwave
power transmission systems 08 p0182 A75-45663 [IAF PAPER 75-005] 08 p0183 A75-0 Economic analysis of space-based electric power generation and transmission systems [IAF PAPER 75-006] 08 p0183 A75-0 08 p0183 A75-45814 08 p0183 A75-45829 Space and energy - Some legal problems ---extraterrestrial resources and solar energy exploitation 08 p0183 A75-45885 The utilization of space as a source of energy for the earth 08 p0183 A75-45893 Bnergy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, University of Delaware, Newark, Del., August 18-22, 1975, Record 08 p0183 A75-45920 Thermal energy storage --- solar storage materials performance 08 p0185 A75-45932 Application of rocket engine technology to energy 08 p0185 A75-45933 Advanced heat transfer methods for geothermal power applications 08 p0185 A75-45934 Solar heat pump comfort heating systems
08 p0185 A75-45936
Development of a 540-sq-ft prototype faceted fixed mirror solar concentrator 08 p0186 A75-45940 Solid polymer electrolysis fuel cell status report 08 p0186 A75-45942 Phosphoric acid fuel cell stack development 08 p0186 A75-45943 1.5 and 3KW indirect methanol-air fuel cell power plants 08 p0186 A75-45944 Design study for a coal-fueled closed cycle gas turbine system for MIUS applications --- Modular Integrated Otility System 08 p0187 A75-45948 Parametric study for a pyrolytic system for production of fuels from agricultural and forestry wastes 08 p0187 A75-45950 The ERDA thermionic program --- for nuclear propulsion and utility power plants 08 p0187 A75-45955 Ground based solar energy technology advances 08 p0190 A75-45984 Continuous duty solar energy system concepts 08 p0190 A75-45993

The nuclear electric economy --- current and

projected energy consumption and fossil fuel

Solar sea power plants /SSPP/ using ocean thermal gradients	Assessment of the technology required to develop photovoltaic power system for large scale
08 p0191 A75-45996 Harnessing wind power in developing countries	national energy applications [NSP/BA/N-74-072] 06 p0080 N75-17785
08 p0191 A75-46009 Wind and solar thermal combinations for space heating	First Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 m75-17790
08 p0192 A75-46010 Tornado-type wind energy system a	Solar total energy program [SAND-74-0208] 06 p0081 H75-17810
multimegawatt power output unit 08 p0192 A75-46012	Energy and cryoengineering [LA-UR-74-741] 06 p0082 B75-17814
A 100 watt Stirling electric generator for solar or solid fuel heat sources 08 p0192 A75-46014	Report of the Interagency Working Group on health and environmental effects of energy use [PB-237937/8] 06 p0084 W75-17858
Electrical generation by wind power 08 p0193 A75-46024	Survey of hydrogen compatibility problems in energy storage and energy transmission
Blectrical generating equipment and electric utility requirements for high-power wind	applications [SAND-74-8219] 06 p0087 B75-18726
generator systems 08 p0193 A75-46025	In situ oil shale: A cost sensitivity analysis [SAND-74-0146] 06 p0087 B75-18727
Wind power system optimization 08 p0193 A75-46026	Data base for the industrial energy study of the industrial chemicals group
Hydrogen sponge heat pump carnot cycle system on lanthanum pentanickel	[PB-237845/3] 06 p0087 N75-18732 Conference proceedings: Power Generation-Clean
08 p0194 A75-46035 Solar-thermal electric power generation using a	Puels Today [PB-237661/4] 06 p0087 N75-18735
system of distributed parabolic trough collectors [AICHE PAPER 12] 08 p0196 A75-47511	Study of potential problems and optimum opportunities in retrofitting industrial
The role of heat transfer in solving geothermal energy problems to accelerate its effective	processes to low and intermediate energy gas from coal
application [ASME PAPER 75-HI-57] 08 p0 196 A75-47527	[PB-237116/9] 06 p0088 M75-18739 Advanced coal gasification system for electric
Preliminary results of the large experimental wind turbine phase of the national wind energy program	power generation [PB-236971/8] 06 p0089 B75-18747
08 p0196 A75-47798 Plans and status of the HASA-Lewis Research Center	The MHD generator: A step toward the energy supply of tomorrow development of
wind energy project 08 p0197 A75-47802	<pre>magnetohydrodynamic generators [AD-A000087]</pre>
The NASA-Lewis/ERDA Solar Heating and Cooling Technology Program	Energy systems analysis and technology assessment program
08 p0197 A75-47803 Rationale for setting priorities for new energy	[BNL-18984] 06 p0094 M75-19831 Research and technology operating plan summary:
technology research and development [UCRL-51511] 05 p0024 N75-10594	Piscal year 1975 research and technology program space programs, energy technology, and
Application of technology from the Rover program and related developments to energy needs	aerospace sciences [#ASA-TM-X-70410] 06 p0096 #75-20155
[LA-5558] 05 p0028 N75-11468 HSF-RANN energy abstracts. A monthly abstract	Proceedings of the Conference on Research for the Development of Geothermal Energy Resources
journal of energy research, volume 2, no. 4 [ORNL-BIS-74-52-VOL-2-4] 05 p0029 B75-11469	[NASA-CR-142556] 06 p0098 N75-20831 The NSF/HANN PY 1975 program for geothermal
Technological and commercial possibilities which result by using a high temperature reactor for	resources research and technology 06 p0098 N75-20833
the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470	Geothermal research and development program of the US Atomic Energy Commission
Outlook for fusion energy sources: Remaining technological hurdles	06 p0098 N75-20834 Geophysical, geochemical, and geological
[UCRL-75418] 05 p0029 N75-11745 Our prodigal sun solar energy technology	investigations of the Dunes geothermal system, Imperial Valley, California
[NASA-EP-118] 05 p0032 N75-12885 Wind energy developments in the 20th century	[IGPP-UCR-74-31] 06 p0098 H75-20836 The Colorado School of Mines Nevada goothermal study
[NASA-TH-I-71634] 05 p0033 N75-13380 MEGASTAR: The meaning of growth. An assessment of systems, technologies, and requirements	06 p0099 N75-20837 Heat flow and geothermal potential of the East Mesa KGRA, Imperial Valley, California
methodology for display and analysis of energy production and consumption	06 p0099 B75-20838 A brief description of geological and geophysical
[NASA-CR-120338] 05 p0033 N75-13381 A system utilizing solar energy	exploration of the Marysville geothermal area 06 p0099 N75-20839
[NBSA-TT-F-16089] 05 p0033 N75-13386 Efficiencies in power generation	Institutional and environmental problems in geothermal resource development
[PB-234160/0] 05 p0034 N75-13398 Report of the Wind Power Committee a	06 p0100 H75-20843 The total flow concept for geothermal energy
feasibility analysis of the use of wind for a major energy source	conversion 06 p0100 H75-20846
[NSA-TT-F-16062] Energy from US and Canadian tar sands: Technical, environmental, economic, legislative, and policy	San Diego Gas and Blectric Company Imperial Valley geothermal activities 06 p0100 N75-20847
aspects [GPO-43-005] 06 p0067 M75-16083	The Marysville, Montana Geothermal Project 06 p0100 H75-20849
Energy problems in a global context 06 p0075 H75-16978 Energy-related research and development in the	Preliminary results of geothermal desalting operations at the East Hesa test site Imperial Valley, California
United States Air Force 06 p0075 H75-16979	06 p0101 H75-20850 Rock melting technology and geothermal drilling
Alternative fuels for aviation 06 p0075 F75-16980	06 p0101 H75-20851 Geothermal reservoir simulation 06 p0101 H75-20852
Energy resources and utilization 06 p0075 H75-16983	Geothermal reservoir engineering research 06 p0101 #75-20853

SUBJECT INDEX BUTIROUMENT POLICITION

Geothermal down well pumping system	Stirling engines - Capabilities and prospects
06 p0101 N75-20854	06 p0048 A75-23237
Helical rotary screw expander power system 06 p0101 N75-20856	Part load specific fuel consumption of gas turbines 06 p0063 A75-28650
Combining total energy and energy industrial	Space power application of the all purpose
center concepts to increase utilization	mini-Brayton rotating unit /mini-BRU/
efficiency of geothermal energy 06 p0102 m75-20860	08 p0193 A75-46019 Preliminary results of the large experimental wind
A city invests in its future	turbine phase of the national wind energy program
06 p0102 H75-20862	08 p0196 A75-47798
Hydrogen economy: A utility perspective	Impact of future fuels on military aero-engines
[BHL-19267] 06 p0103 N75-20870	06 p0075 B75-16981
Scientific research seeks new sources of energy 06 p0107 N75-21216	Preliminary study of advanced turbofans for low energy consumption
Problems of the future and potentialities of	[NASA-TH-X-71663] 06 p0084 N75-18241
system engineering metallic materials,	A study of technological improvements in
plastics, traffic and energy supplies [ESRO-TT-110] 06 p0107 N75-21218	automobile fuel consumption. Volume 2: Comprehensive discussion
Flywheel energy systems	[PB-238694/4] 07 p0132 875-22482
[SAND-74-0113] 07 p0129 N75-21802	A study of technological improvements in
Evaluating integrated utility systems	automobile fuel consumption. Volume 3B:
[PB-238765/2] 07 p0136 N75-22925 Solar energy research and development	Appendixes 4 - 7 [PB-238696/9] 07 p0133 N75-22484
[GPO-40-684] 07 p0139 N75-24104	Turbine design and application, volume 3
Symposium on the Material Science Aspects of Thin	[HASA-SP-290-VOL-3] 07 p0147 H75-24741
Film Systems for Solar Energy Conversion [PB-239270/2] 07 p0144 H75-24150	ENGINE PARTS
[PB-239270/2] 07 p0144 N75-24150 Various research tasks related to energy	Study of the costs and benefits of composite materials in advanced turbofan engines
information and data activities. Task 2	[NASA-CR-134696] 06 p0073 N75-16637
national energy indexing schemes:	ENGINE TESTS
Characterization of problem [PB-240423/4] 07 p0152 N75-25774	Engine performance with gasoline and hydrogen - A
Digest of energy facts for water resources studies	comparative study 08 p0177 A75-44787
in Minnesota	ENVIRONMENT EPPECTS
[PB-239961/6] 07 p0156 H75-26515	Environmental aspects of fusion reactors
Assessment of the potential of clean fuels and energy technology	08 p0170 A75-41434 The technology and economies of hydrogen
[PB-239970/7] 07 p0162 h75-27583	production from fusion reactors
A summary of significant results in mining	08 p0176 A75-44767
metallurgy and energy, Bureau of Mines Research	Social and environmental context of the hydrogen
1974 [PB-241084/2] 08 p0199 R75-28514	economy 08 p0179 A75-44807
Scientific research in power engineering	
	nom midur rue nigroden economi gilect our
[JPRS-65422] 08 p0205 N75-30648	How might the hydrogen economy affect our resources and environment
[JPRS-65422] 08 p0205 N75-30648 A systems approach to innovative solutions to the	resources and environment 08 p0179 A75-44809
[JPRS-65422] 08 p0205 N75-30648 A systems approach to innovative solutions to the energy problem	resources and environment 08 p0179 A75-44809 Process environment effects on heat pipes for
[JPRS-65422] 08 p0205 N75-30648 A systems approach to innovative solutions to the	resources and environment 08 p0179 A75-44809
[JPRS-65422] 08 p0205 N75-30648 A systems approach to innovative solutions to the energy problem [PB-242189/9] 08 p0213 N75-33505 EWERGY TRANSFER The nature of the sunspot phenomenon. III ~ Energy	resources and environment 08 p0179 A75-44809 Process environment effects on heat pipes for fluid-bed gasification of coal [LA-UR-74-984] 05 p0029 N75-12252 Energy and the environment: Electric power
[JPRS-65422] 08 p0205 N75-30648 A systems approach to innovative solutions to the energy problem [PB-242189/9] 08 p0213 N75-33505 ENERGY TRANSFER The nature of the sunspot phenomenon. III ~ Energy consumption and energy transport. IV ~ The	resources and environment 08 p0179 A75-44809 Process environment effects on heat pipes for fluid-bed gasification of coal [LA-UR-74-984] 05 p0029 H75-12252 Energy and the environment: Electric power 05 p0030 H75-12438
[JPRS-65422] 08 p0205 N75-30648 A systems approach to innovative solutions to the energy problem [PB-242189/9] 08 p0213 N75-33505 EWERGY TRANSFER The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The intrinsic instability of the magnetic	resources and environment 08 p0179 A75-44809 Process environment effects on heat pipes for fluid-bed gasification of coal [LA-UR-74-984] Energy and the environment: Electric power 05 p0030 B75-12438 Energy and the environment in Baden-Wuerttemberg
[JPRS-65422] 08 p0205 N75-30648 A systems approach to innovative solutions to the energy problem [PB-242189/9] 08 p0213 N75-33505 ENERGY TRANSFER The nature of the sunspot phenomenon. III ~ Energy consumption and energy transport. IV ~ The intrinsic instability of the magnetic configuration 06 p0064 A75-29137	resources and environment 08 p0179 A75-44809 Process environment effects on heat pipes for fluid-bed gasification of coal [LA-UR-74-984] Energy and the environment: Electric power 05 p0030 M75-12438 Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] Program plan for environmental effects of energy
[JPRS-65422] 08 p0205 N75-30648 A systems approach to innovative solutions to the energy problem [PB-242189/9] 08 p0213 N75-33505 ENERGY TRANSFER The nature of the sunspot phenomenon. III ~ Energy consumption and energy transport. IV ~ The intrinsic instability of the magnetic configuration 06 p0064 A75-29137 Calculation of flat-plate collector loss	resources and environment 08 p0179 A75-44809 Process environment effects on heat pipes for fluid-bed gasification of coal [LA-UR-74-984] 05 p0029 R75-12252 Energy and the environment: Electric power 05 p0030 R75-12438 Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 R75-12439 Program plan for environmental effects of energy [PB-235115/3] 05 p0040 R75-15177
[JPRS-65422] 08 p0205 N75-30648 A systems approach to innovative solutions to the energy problem [PB-242189/9] 08 p0213 N75-33505 EWERGY TRANSPER The nature of the sunspot phenomenon. III ~ Energy consumption and energy transport. IV ~ The intrinsic instability of the magnetic configuration 06 p0064 A75-29137 Calculation of flat-plate collector loss coefficients of solar radiation	resources and environment 08 p0179 A75-44809 Process environment effects on heat pipes for fluid-bed gasification of coal [LA-UR-74-984] 05 p0029 B75-12252 Energy and the environment: Electric power 05 p0030 B75-12438 Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 B75-12439 Program plan for environmental effects of energy [PB-235115/3] Comparison of the environmental aspects of nuclear
[JPRS-65422] 08 p0205 N75-30648 A systems approach to innovative solutions to the energy problem [PB-242189/9] 08 p0213 N75-33505 ENERGY TRANSFER The nature of the sunspot phenomenon. III ~ Energy consumption and energy transport. IV ~ The intrinsic instability of the magnetic configuration 06 p0064 A75-29137 Calculation of flat-plate collector loss	resources and environment 08 p0179 A75-44809 Process environment effects on heat pipes for fluid-bed gasification of coal [LA-UR-74-984] 05 p0029 R75-12252 Energy and the environment: Electric power 05 p0030 R75-12438 Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 R75-12439 Program plan for environmental effects of energy [PB-235115/3] 05 p0040 R75-15177
[JPRS-65422] 08 p0205 N75-30648 A systems approach to innovative solutions to the energy problem [PB-242189/9] 08 p0213 N75-33505 EWERGY TRANSPER The nature of the sunspot phenomenon. III ~ Energy consumption and energy transport. IV ~ The intrinsic instability of the magnetic configuration 06 p0064 A75-29137 Calculation of flat-plate collector loss coefficients of solar radiation 07 p0109 A75-29480 Can hydrogen transmission replace electricity 08 p0165 A75-38863	resources and environment 08 p0179 A75-44809 Process environment effects on heat pipes for fluid-bed gasification of coal [LA-UR-74-984] 05 p0029 N75-12252 Energy and the environment: Electric power 05 p0030 N75-12438 Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 Program plan for environmental effects of energy [PB-235115/3] Comparison of the environmental aspects of nuclear and fossil fueled power stations [CONF-740555-1] OCS oil and gas: An environmental assessment,
[JPRS-65422] 08 p0205 N75-30648 A systems approach to innovative solutions to the energy problem [PB-242189/9] 08 p0213 N75-33505 ENERGY TRANSFER The nature of the sunspot phenomenon. III ~ Energy consumption and energy transport. IV ~ The intrinsic instability of the magnetic configuration 06 p0064 A75-29137 Calculation of flat-plate collector loss coefficients of solar radiation 07 p0109 A75-29480 Can hydrogen transmission replace electricity 08 p0165 A75-38863 Will hydrogen transmission replace electricity	resources and environment 08 p0179 A75-44809 Process environment effects on heat pipes for fluid-bed gasification of coal [LA-UR-74-984] 05 p0029 B75-12252 Energy and the environment: Electric power 05 p0030 B75-12438 Energy and the environment in Baden-Wuertteaberg [KFK-1966-UF] 05 p0030 B75-12439 Program plan for environmental effects of energy [PB-235115/3] Comparison of the environmental aspects of nuclear and fossil fueled power stations [COBF-740555-1] OCS oil and gas: An environmental assessment, Yolume 1
[JPRS-65422] 08 p0205 N75-30648 A systems approach to innovative solutions to the energy problem [PB-242189/9] 08 p0213 N75-33505 ENERGY TRANSFER The nature of the sunspot phenomenon. III ~ Energy consumption and energy transport. IV ~ The intrinsic instability of the magnetic configuration 06 p0064 A75-29137 Calculation of flat-plate collector loss coefficients of solar radiation 07 p0109 A75-29480 Can hydrogen transmission replace electricity 08 p0165 A75-38863 Will hydrogen transmission replace electricity 08 p0172 A75-42281	resources and environment 08 p0179 A75-44809 Process environment effects on heat pipes for fluid-bed gasification of coal [LA-UR-74-984] 05 p0029 H75-12252 Energy and the environment: Electric power 05 p0030 H75-12438 Energy and the environment in Baden-Wuertteaberg [KFK-1966-UF] 05 p0030 H75-12439 Program plan for environmental effects of energy [PB-235115/3] 05 p0040 H75-15177 Comparison of the environmental aspects of nuclear and fossil fueled power stations [COHP-740555-1] 06 p0077 H75-16995 OCS oil and gas: An environmental assessment, Volume 1
[JPRS-65422] 08 p0205 N75-30648 A systems approach to innovative solutions to the energy problem [PB-242189/9] 08 p0213 N75-33505 ENERGY TRANSFER The nature of the sunspot phenomenon. III ~ Energy consumption and energy transport. IV ~ The intrinsic instability of the magnetic configuration 06 p0064 A75-29137 Calculation of flat-plate collector loss coefficients of solar radiation 07 p0109 A75-29480 Can hydrogen transmission replace electricity 08 p0165 A75-38863 Will hydrogen transmission replace electricity	resources and environment 08 p0179 A75-44809 Process environment effects on heat pipes for fluid-bed gasification of coal [LA-UR-74-984] 05 p0029 B75-12252 Energy and the environment: Electric power 05 p0030 B75-12438 Energy and the environment in Baden-Wuertteaberg [KFK-1966-UF] 05 p0030 B75-12439 Program plan for environmental effects of energy [PB-235115/3] 05 p0040 B75-15177 Comparison of the environmental aspects of nuclear and fossil fueled power stations [COBF-740555-1] 06 p0077 B75-16995 OCS oil and gas: An environmental assessment, Volume 1 06 p0083 B75-17837 Pollutional problems and research needs for an oil shale industry
[JPRS-65422] 08 p0205 N75-30648 A systems approach to innovative solutions to the energy problem [PB-242189/9] 08 p0213 N75-33505 ENERGY TRANSFER The nature of the sunspot phenomenon. III ~ Energy consumption and energy transport. IV ~ The intrinsic instability of the magnetic configuration 06 p0064 A75-29137 Calculation of flat-plate collector loss coefficients of solar radiation 07 p0109 A75-29480 Can hydrogen transmission replace electricity 08 p0165 A75-38863 Will hydrogen transmission replace electricity 08 p0172 A75-42281 Solar energy absorber [NASA-CASE-MFS-22743-1] 05 p0024 N75-10585 Bethods of energy transfer from a magnetic energy	resources and environment 08 p0179 A75-44809 Process environment effects on heat pipes for fluid-bed gasification of coal [LA-UR-74-984] 05 p0029 H75-12252 Energy and the environment: Electric power 05 p0030 H75-12438 Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 H75-12439 Program plan for environmental effects of energy [PB-235115/3] 05 p0040 H75-15177 Comparison of the environmental aspects of nuclear and fossil fueled power stations [COHF-740555-1] 06 p0077 H75-16995 OCS oil and gas: An environmental assessment, Volume 1 06 p0083 H75-17837 Pollutional problems and research needs for an oil shale industry [PB-236608/6] 06 p0084 H75-17848
[JPRS-65422] 08 p0205 N75-30648 A systems approach to innovative solutions to the energy problem [PB-242189/9] 08 p0213 N75-33505 ENERGY TRANSPER The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The intrinsic instability of the magnetic configuration 06 p0064 A75-29137 Calculation of flat-plate collector loss coefficients of solar radiation 07 p0109 A75-29480 Can hydrogen transmission replace electricity 08 p0165 A75-38863 Will hydrogen transmission replace electricity Solar energy absorber [NASA-CASE-MFS-22743-1] Bethods of energy transfer from a magnetic energy storage system using a transfer capacitor and a	resources and environment 08 p0179 A75-44809 Process environment effects on heat pipes for fluid-bed gasification of coal [LA-UR-74-984] 05 p0029 N75-12252 Energy and the environment: Electric power 05 p0030 N75-12438 Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 Program plan for environmental effects of energy [PB-235115/3] 05 p0040 N75-15177 Comparison of the environmental aspects of nuclear and fossil fueled power stations [CONP-740555-1] OCS oil and gas: An environmental assessment, Volume 1 06 p0083 N75-17837 Pollutional problems and research needs for an oil shale industry [PB-236608/6] Environmental aspects of methanol as webicular
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[JPRS-65422] 08 p0205 N75-30648 A systems approach to innovative solutions to the energy problem [PB-242189/9] 08 p0213 N75-33505 EWERRY TRANSPER The nature of the sunspot phenomenon. III ~ Energy consumption and energy transport. IV ~ The intrinsic instability of the magnetic configuration 06 p0064 A75-29137 Calculation of flat-plate collector loss coefficients of solar radiation 07 p0109 A75-29480 Can hydrogen transmission replace electricity 08 p0165 A75-38863 Will hydrogen transmission replace electricity 08 p0172 A75-42281 Solar energy absorber [NASA-CASE-MFS-22743-1] 05 p0024 N75-10585 Bethods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-MS] 05 p0032 N75-13164 Continued development of energy transmission and	resources and environment 08 p0179 A75-44809 Process environment effects on heat pipes for fluid-bed gasification of coal [LA-UR-74-984] 05 p0029 N75-12252 Energy and the environment: Electric power 05 p0030 N75-12438 Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 Program plan for environmental effects of energy [PB-235115/3] 05 p0040 N75-15177 Comparison of the environmental aspects of nuclear and fossil fueled power stations [CONF-740555-1] 06 p0077 N75-16995 OCS oil and gas: An environmental assessment, volume 1 06 p0083 N75-17837 Pollutional problems and research needs for an oil shale industry [PB-236608/6] 06 p0084 N75-17848 Environmental aspects of methanol as webicular fuel: Health and environmental effects [UCRL-76076] Environmental aspects of cadmium sulfide usage in
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[JPRS-65422] 08 p0205 N75-30648 A systems approach to innovative solutions to the energy problem [PB-242189/9] 08 p0213 N75-33505 EWERRY TRANSPER The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The intrinsic instability of the magnetic configuration 06 p0064 A75-29137 Calculation of flat-plate collector loss coefficients of solar radiation 07 p0109 A75-29480 Can hydrogen transmission replace electricity 08 p0165 A75-38863 Will hydrogen transmission replace electricity 08 p0172 A75-42281 Solar energy absorber [NASA-CASE-MFS-22743-1] 05 p0024 N75-10585 Bethods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-Ms] 05 p0032 N75-13164 Continued development of energy transmission and conversion systems applied to operation of mechanical hearts [PB-236181/4] Energy recovery from solid waste production engineering model 06 p0079 N75-17200	resources and environment 08 p0179 A75-44809 Process environment effects on heat pipes for fluid-bed gasification of coal [LA-UR-74-984] 05 p0029 N75-12252 Energy and the environment: Electric power 05 p0030 N75-12438 Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 Program plan for environmental effects of energy [PB-235115/3] 05 p0040 N75-15177 Comparison of the environmental aspects of nuclear and fossil fueled power stations [CONF-740555-1] 06 p0077 N75-16995 OCS oil and gas: An environmental assessment, Volume 1 06 p0083 N75-17837 Pollutional problems and research needs for an oil shale industry [PB-236608/6] 06 p0084 N75-17848 Environmental aspects of methanol as vehicular fuel: Health and environmental effects [UCRL-76076] 06 p0095 N75-19867 Environmental aspects of cadmium sulfide usage in solar energy conversion. Part 1: Toxicological and environmental health considerations, a bibliography [PB-238285/1] 06 p0105 N75-20884 Evaluation of power facilities; A reviewer's handbook electric and nuclear power plants
[JPRS-65422] 08 p0205 N75-30648 A systems approach to innovative solutions to the energy problem [PB-242189/9] 08 p0213 N75-33505 ENBERGY TRANSPER The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The intrinsic instability of the magnetic configuration 06 p0064 A75-29137 Calculation of flat-plate collector loss coefficients of solar radiation 07 p0109 A75-29480 Can hydrogen transmission replace electricity 08 p0165 A75-38863 Will hydrogen transmission replace electricity 08 p0172 A75-42281 Solar energy absorber [NASA-CASE-MFS-22743-1] 05 p0024 N75-10585 Rethods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-HS] 05 p0032 N75-13164 Continued development of energy transmission and conversion systems applied to operation of mechanical hearts [PB-236181/4] 05 p0037 N75-14278 Energy recovery from solid waste production engineering model 06 p0079 N75-17200 Ragnetic Energy Transfer and Storage (METS)	resources and environment 08 p0179 A75-44809 Process environment effects on heat pipes for fluid-bed gasification of coal [LA-UR-74-984] 05 p0029 N75-12252 Energy and the environment: Electric power 05 p0030 N75-12438 Energy and the environment in Baden-Wuertteaberg [KFK-1966-UF] 05 p0030 N75-12439 Program plan for environmental effects of energy [PB-235115/3] 05 p0040 N75-15177 Comparison of the environmental aspects of nuclear and fossil fueled power stations [CONF-740555-1] 06 p0077 N75-16995 OCS oil and gas: An environmental assessment, Volume 1 06 p0083 N75-17837 Pollutional problems and research needs for an oil shale industry [PB-236608/6] 06 p0084 N75-17848 Environmental aspects of methanol as vehicular fuel: Health and environmental effects [CCRL-76076] 06 p0095 N75-19867 Environmental aspects of cadmium sulfide usage in solar energy conversion. Part 1: Toxicological and environmental health considerations, a bibliography [PB-238285/1] 06 p0105 N75-20884 Evaluation of power facilities; A reviewer's handbook electric and nuclear power plants [PB-239221/5] 07 p0146 N75-24198
A systems approach to innovative solutions to the energy problem [PB-242189/9] BWBRGY TRANSPER The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The intrinsic instability of the magnetic configuration Of p0064 A75-29137 Calculation of flat-plate collector loss coefficients of solar radiation Of p0109 A75-29480 Can hydrogen transmission replace electricity Omega p0165 A75-38863 Will hydrogen transmission replace electricity Omega p0172 A75-42281 Solar energy absorber [NASA-CASE-MFS-22743-1] Selethods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-MS] Continued development of energy transmission and conversion systems applied to operation of mechanical hearts [PB-236181/4] Energy recovery from solid waste production engineering model Of p0079 N75-17200 Ragnetic Energy Transfer and Storage (METS) program schedules for a Fusion Test Reactor (FTE) [LA-5748-MS] Of p0106 N75-21097	resources and environment 08 p0179 A75-44809 Process environment effects on heat pipes for fluid-bed gasification of coal [LA-UR-74-984] 05 p0029 N75-12252 Energy and the environment: Electric power 05 p0030 N75-12438 Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 Program plan for environmental effects of energy [PB-235115/3] 05 p0040 N75-15177 Comparison of the environmental aspects of nuclear and fossil fueled power stations [CONP-740555-1] 06 p0077 N75-16995 OCS oil and gas: An environmental assessment, Volume 1 06 p0083 N75-17837 Pollutional problems and research needs for an oil shale industry [PB-236608/6] 06 p0084 N75-17848 Environmental aspects of methanol as webicular fuel: Health and environmental effects [UCRL-76076] Environmental aspects of cadmium sulfide usage in solar energy conversion. Part 1: Toricological and environmental health considerations, a bibliography [PB-238285/1] 06 p0105 N75-20884 Evaluation of power facilities; A reviewer's handbook electric and nuclear power plants [PB-239221/5] 07 p0146 N75-24198 Mineral resources and the environment energy conservation and energy policy
[JPRS-65422] 08 p0205 N75-30648 A systems approach to innovative solutions to the energy problem [PB-242189/9] 08 p0213 N75-33505 ENBERGY TRANSPER The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The intrinsic instability of the magnetic configuration 06 p0064 A75-29137 Calculation of flat-plate collector loss coefficients of solar radiation 07 p0109 A75-29480 Can hydrogen transmission replace electricity 08 p0165 A75-38863 Will hydrogen transmission replace electricity 08 p0172 A75-42281 Solar energy absorber [NASA-CASE-HFS-22743-1] 05 p0024 N75-10585 Rethods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-HS] 05 p0032 N75-13164 Continued development of energy transmission and conversion systems applied to operation of mechanical hearts [PB-236181/4] 05 p0037 N75-14278 Energy recovery from solid waste production engineering model 06 p0079 N75-17200 Ragnetic Energy Transfer and Storage (METS) program schedules for a Fusion Test Reactor (FTR) [LA-5748-HS] 06 p0106 N75-21097	resources and environment 08 p0179 A75-44809 Process environment effects on heat pipes for fluid-bed gasification of coal [LA-UR-74-984] 05 p0029 N75-12252 Energy and the environment: Electric power 05 p0030 N75-12438 Energy and the environment in Baden-Wuertteaberg [KFK-1966-UF] 05 p0030 N75-12439 Program plan for environmental effects of energy [PB-235115/3] 05 p0040 N75-15177 Comparison of the environmental aspects of nuclear and fossil fueled power stations [CONF-740555-1] 06 p0077 N75-16995 OCS oil and gas: An environmental assessment, Volume 1 06 p0083 N75-17837 Pollutional problems and research needs for an oil shale industry [PB-236608/6] 06 p0084 N75-17848 Environmental aspects of methanol as vehicular fuel: Health and environmental effects [UCRL-76076] 06 p0095 N75-19867 Environmental aspects of cadmium sulfide usage in solar energy conversion. Part 1: Toxicological and environmental health considerations, a bibliography [PB-238285/1] 06 p0105 N75-20884 Evaluation of power facilities; A reviewer's handbook electric and nuclear power plants [PB-239221/5] Mineral resources and the environment energy conservation and energy policy [PB-239579/6] 07 p0153 N75-26486
[JPRS-65422] 08 p0205 N75-30648 A systems approach to innovative solutions to the energy problem [PB-242189/9] 08 p0213 N75-33505 ENERGY TRANSPER The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The intrinsic instability of the magnetic configuration 06 p0064 A75-29137 Calculation of flat-plate collector loss coefficients of solar radiation 07 p0109 A75-29480 Can hydrogen transmission replace electricity 08 p0165 A75-38863 Will hydrogen transmission replace electricity 08 p0172 A75-42281 Solar energy absorber [NASA-CASE-MFS-22743-1] 05 p0024 N75-10585 Rethods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-MS] 05 p0032 N75-13164 Continued development of energy transmission and conversion systems applied to operation of mechanical hearts [PB-236181/4] 05 p0037 N75-14278 Energy recovery from solid waste production engineering model 06 p0079 N75-17200 Agnetic Energy Transfer and Storage (METS) program schedules for a Fusion Test Reactor (FTR) [LA-5748-MS] 06 p0106 N75-21097 EMSGIME CONTROL Powerplant energy management transport	resources and environment 08 p0179 A75-44809 Process environment effects on heat pipes for fluid-bed gasification of coal [LA-UR-74-984] 05 p0029 B75-12252 Energy and the environment: Electric power 05 p0030 B75-12438 Energy and the environment in Baden-Wuertteaberg [KFK-1966-UF] 05 p0030 B75-12439 Program plan for environmental effects of energy [PB-235115/3] 05 p0040 B75-12439 Program plan for environmental aspects of nuclear and fossil fueled power stations [COBF-740555-1] 06 p0077 B75-16995 OCS oil and gas: An environmental assessment, volume 1 06 p0083 B75-17837 Pollutional problems and research needs for an oil shale industry [PB-236608/6] 06 p0084 B75-17848 Environmental aspects of methanol as vehicular fuel: Health and environmental effects [UCRL-76076] 06 p0095 B75-19867 Environmental aspects of cadmium sulfide usage in solar energy conversion. Part 1: Toxicological and environmental health considerations, a bibliography [PB-238285/1] 06 p0105 B75-20884 Evaluation of power facilities; A reviewer's handbook electric and nuclear power plants [PB-239221/5] 07 p0146 B75-24198 Mineral resources and the environment energy conservation and energy policy [PB-239579/6] 07 p0153 B75-26486
[JPRS-65422] 08 p0205 N75-30648 A systems approach to innovative solutions to the energy problem [PB-242189/9] 08 p0213 N75-33505 ENBERGY TRANSPER The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The intrinsic instability of the magnetic configuration 06 p0064 A75-29137 Calculation of flat-plate collector loss coefficients of solar radiation 07 p0109 A75-29480 Can hydrogen transmission replace electricity 08 p0165 A75-38863 Will hydrogen transmission replace electricity 08 p0172 A75-42281 Solar energy absorber [NASA-CASE-HFS-22743-1] 05 p0024 N75-10585 Rethods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-HS] 05 p0032 N75-13164 Continued development of energy transmission and conversion systems applied to operation of mechanical hearts [PB-236181/4] 05 p0037 N75-14278 Energy recovery from solid waste production engineering model 06 p0079 N75-17200 Ragnetic Energy Transfer and Storage (METS) program schedules for a Fusion Test Reactor (FTR) [LA-5748-HS] 06 p0106 N75-21097	resources and environment 08 p0179 A75-44809 Process environment effects on heat pipes for fluid-bed gasification of coal [LA-UR-74-984] 05 p0029 N75-12252 Energy and the environment: Electric power 05 p0030 N75-12438 Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 Program plan for environmental effects of energy [PB-235115/3] 05 p0040 N75-15177 Comparison of the environmental aspects of nuclear and fossil fueled power stations [CONP-740555-1] 06 p0077 N75-16995 OCS oil and gas: An environmental assessment, Volume 1 06 p0083 N75-17837 Pollutional problems and research needs for an oil shale industry [PB-236608/6] 06 p0084 N75-17848 Environmental aspects of methanol as webicular fuel: Health and environmental effects [UCRL-76076] Environmental aspects of cadmium sulfide usage in solar energy conversion. Part 1: Toxicological and environmental health considerations, a bibliography [PB-238285/1] 06 p0105 N75-20884 Evaluation of power facilities; A reviewer's handbook electric and nuclear power plants [PB-239221/5] 07 p0146 N75-24198 Mineral resources and the environment energy conservation and energy policy [PB-239579/6] 07 p0153 N75-26486 ENVIRONMENT MAMAGEMENT The solution of information-deficiency problems of
[JPRS-65422] 08 p0205 N75-30648 A systems approach to innovative solutions to the energy problem [PB-242189/9] 08 p0213 N75-33505 ENERGY TRANSPER The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The intrinsic instability of the magnetic configuration 06 p0064 A75-29137 Calculation of flat-plate collector loss coefficients of solar radiation 07 p0109 A75-29480 Can hydrogen transmission replace electricity 08 p0165 A75-38863 Will hydrogen transmission replace electricity 08 p0172 A75-42281 Solar energy absorber [NASA-CASE-HFS-22743-1] 05 p0024 N75-10585 Rethods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-HS] 05 p0032 N75-13164 Continued development of energy transmission and conversion systems applied to operation of mechanical hearts [PB-236181/4] 05 p0037 N75-14278 Energy recovery from solid waste production engineering model 06 p0079 N75-17200 Ragnetic Energy Transfer and Storage (METS) program schedules for a Fusion Test Reactor (FTR) [LA-5748-HS] 06 p0106 N75-21097 ENGINE CONTROL Powerplant energy management transport aircraft engine thrust control [AIAA PAPER 74-1066] 05 p0001 A75-10259 Backfire control techniques for hydrogen-fueled	resources and environment 08 p0179 A75-44809 Process environment effects on heat pipes for fluid-bed gasification of coal [LA-UR-74-984] 05 p0029 B75-12252 Energy and the environment: Electric power 05 p0030 B75-12438 Energy and the environment in Baden-Wuertteaberg [KFK-1966-UF] 05 p0030 B75-12439 Program plan for environmental effects of energy [PB-235115/3] 05 p0040 B75-15177 Comparison of the environmental aspects of nuclear and fossil fueled power stations [COBF-740555-1] 06 p0077 B75-16995 OCS oil and gas: An environmental assessment, volume 1 06 p0083 B75-17837 Pollutional problems and research needs for an oil shale industry [PB-236608/6] 06 p0084 B75-17848 Environmental aspects of methanol as vehicular fuel: Health and environmental effects [UCRL-76076] 06 p0095 B75-19867 Environmental aspects of cadmium sulfide usage in solar energy conversion. Part 1: Toxicological and environmental health considerations, a bibliography [PB-238285/1] 06 p0105 B75-20884 Evaluation of power facilities; A reviewer's handbook electric and nuclear power plants [PB-23221/5] 07 p0146 B75-24198 Mineral resources and the environment energy conservation and energy policy [PB-239579/6] 07 p0153 B75-26486 ENVIROHMENT MANAGEMENT The solution of information-deficiency problems of electroenergy technology optimal decision making
A systems approach to innovative solutions to the energy problem [PB-242189/9] BWBRGY TRANSPER The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The intrinsic instability of the magnetic configuration Of p0064 A75-29137 Calculation of flat-plate collector loss coefficients of solar radiation Of p0109 A75-29480 Can hydrogen transmission replace electricity Omega p0165 A75-38863 Will hydrogen transmission replace electricity Omega p0172 A75-42281 Solar energy absorber [NASA-CASE-MFS-22743-1] Solar energy atmasfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-MS] Continued development of energy transmission and conversion systems applied to operation of mechanical hearts [PB-236181/4] Energy recovery from solid waste production engineering model Of p0079 N75-17200 Agnetic Energy Transfer and Storage (METS) program schedules for a Fusion Test Reactor (FTR) [LA-5748-MS] Of p0101 A75-10259 BMGTMBC CONTROL Powerplant energy management transport aircraft engine thrust control [AIAA PAPER 74-1066] Sackfire control techniques for hydrogen-fueled internal combustion engineer	resources and environment 08 p0179 A75-44809 Process environment effects on heat pipes for fluid-bed gasification of coal [LA-UR-74-984] 05 p0029 N75-12252 Energy and the environment: Electric power 05 p0030 N75-12438 Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 Program plan for environmental effects of energy [PB-235115/3] 05 p0040 N75-15177 Comparison of the environmental aspects of nuclear and fossil fueled power stations [CONF-740555-1] 06 p0077 N75-16995 OCS oil and gas: An environmental assessment, Volume 1 06 p0083 N75-17837 Pollutional problems and research needs for an oil shale industry [PB-236608/6] 06 p0084 N75-17848 Environmental aspects of methanol as webicular fuel: Health and environmental effects [UCEL-76076] 06 p0095 N75-19867 Environmental aspects of cadmium sulfide usage in solar energy conversion. Part 1: Toxicological and environmental health considerations, a bibliography [PB-238285/1] 06 p0105 N75-20884 Evaluation of power facilities; A reviewer's handbook electric and nuclear power plants [PB-239221/5] 07 p0146 N75-24198 Mineral resources and the environment energy conservation and energy policy [PB-239579/6] 07 p0153 N75-26486 ENVIRONMENT MAMAGEMENT The solution of information-deficiency problems of electroenergy technology optimal decision making
[JPRS-65422] 08 p0205 N75-30648 A systems approach to innovative solutions to the energy problem [PB-242189/9] 08 p0213 N75-33505 ENERGY TRANSPER The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The intrinsic instability of the magnetic configuration 06 p0064 A75-29137 Calculation of flat-plate collector loss coefficients of solar radiation 07 p0109 A75-29480 Can hydrogen transmission replace electricity 08 p0165 A75-38863 Will hydrogen transmission replace electricity 08 p0172 A75-42281 Solar energy absorber [NASA-CASE-HFS-22743-1] 05 p0024 N75-10585 Rethods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-HS] 05 p0032 N75-13164 Continued development of energy transmission and conversion systems applied to operation of mechanical hearts [PB-236181/4] 05 p0037 N75-14278 Energy recovery from solid waste production engineering model 06 p0079 N75-17200 Ragnetic Energy Transfer and Storage (METS) program schedules for a Fusion Test Reactor (FTR) [LA-5748-HS] 06 p0106 N75-21097 ENGINE CONTROL Powerplant energy management transport aircraft engine thrust control [AIAA PAPER 74-1066] 05 p0001 A75-10259 Backfire control techniques for hydrogen-fueled	resources and environment 08 p0179 A75-44809 Process environment effects on heat pipes for fluid-bed gasification of coal [LA-UR-74-984] 05 p0029 N75-12252 Energy and the environment: Electric power 05 p0030 N75-12438 Energy and the environment in Baden-Wuertteaberg [KFK-1966-UF] 05 p0030 N75-12439 Program plan for environmental effects of energy [PB-235115/3] 05 p0040 N75-15177 Comparison of the environmental aspects of nuclear and fossil fueled power stations [COMF-740555-1] 06 p0077 N75-16995 OCS oil and gas: An environmental assessment, Volume 1 06 p0083 N75-17837 Pollutional problems and research needs for an oil shale industry [PB-236608/6] 06 p0084 N75-17848 Environmental aspects of methanol as vehicular fuel: Health and environmental effects [UCRL-76076] 06 p0095 N75-19867 Environmental aspects of cadmium sulfide usage in solar energy conversion. Part 1: Toxicological and environmental health considerations, a bibliography [PB-238285/1] 06 p0105 N75-20884 Evaluation of power facilities; A reviewer's handbook electric and nuclear power plants [PB-239221/5] 07 p0146 N75-24198 Mineral resources and the environment energy conservation and energy policy [PB-239579/6] 07 p0153 N75-26486 ENVIRONMENT MANAGEMENT The solution of information-deficiency problems of electroenergy technology optimal decision making 06 p0062 A75-28508
A systems approach to innovative solutions to the energy problem [PB-242189/9] BBBRGY TRANSPER The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The intrinsic instability of the magnetic configuration O6 p0064 A75-29137 Calculation of flat-plate collector loss coefficients of solar radiation O7 p0109 A75-29480 Can hydrogen transmission replace electricity O8 p0165 A75-38863 Will hydrogen transmission replace electricity O8 p0172 A75-42281 Solar energy absorber [NASA-CASE-MFS-22743-1] Solar energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-HS] Continued development of energy transmission and conversion systems applied to operation of mechanical hearts [PB-236181/4] Energy recovery from solid waste production engineering model O6 p0079 N75-17200 Magnetic Energy Transfer and Storage (METS) program schedules for a Fusion Test Reactor (FTR) [LA-5748-MS] BNGING CONTROL Powerplant energy management transport aircraft engine thrust control [AIAA PAPER 74-1066] Sackfire control techniques for hydrogen-fueled internal combustion engines	resources and environment 08 p0179 A75-44809 Process environment effects on heat pipes for fluid-bed gasification of coal [LA-UR-74-984] 05 p0029 N75-12252 Energy and the environment: Electric power 05 p0030 N75-12438 Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 Program plan for environmental effects of energy [PB-235115/3] 05 p0040 N75-15177 Comparison of the environmental aspects of nuclear and fossil fueled power stations [CONF-740555-1] 06 p0077 N75-16995 OCS oil and gas: An environmental assessment, Volume 1 06 p0083 N75-17837 Pollutional problems and research needs for an oil shale industry [PB-236608/6] 06 p0084 N75-17848 Environmental aspects of methanol as vehicular fuel: Health and environmental effects [UCEL-76076] 06 p0095 N75-19867 Environmental aspects of cadmium sulfide usage in solar energy conversion. Part 1: Toxicological and environmental health considerations, a bibliography [PB-238285/1] 06 p0105 N75-20884 Evaluation of power facilities; A reviewer's handbook electric and nuclear power plants [PB-239221/5] 07 p0146 N75-22198 Mineral resources and the environment energy conservation and energy policy [PB-239579/6] 07 p0153 N75-26486 ENVIRONMENT MANAGEMENT The solution of information-deficiency problems of electroenergy technology optimal decision making 06 p0062 A75-28508 ENVIRONMENT POLLUTION Environmental impact of a geothermal power plant 06 p0049 A75-23291
A systems approach to innovative solutions to the energy problem [PB-242189/9] BWBRGY TRANSPER The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The intrinsic instability of the magnetic configuration O6 p0064 A75-29137 Calculation of flat-plate collector loss coefficients of solar radiation O7 p0109 A75-29480 Can hydrogen transmission replace electricity O8 p0165 A75-38863 Will hydrogen transmission replace electricity O8 p0165 A75-42281 Solar energy absorber [NASA-CASE-MFS-22743-1] Solar energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-MS] Continued development of energy transmission and conversion systems applied to operation of mechanical hearts [PB-236181/4] Energy recovery from solid waste production engineering model O6 p0079 N75-17200 Magnetic Energy Transfer and Storage (METS) program schedules for a Fusion Test Reactor (FTR) [LA-5748-Ms] BMGINE CONTROL Powerplant energy management transport aircraft engine thrust control [AIAA PAPER 74-1066] Backfire control techniques for hydrogen-fueled internal combustion engines O8 p0178 A75-44789 BMGINE DESIGE The Harwell thermo-mechanical generator O5 p0009 A75-10579	resources and environment 08 p0179 A75-44809 Process environment effects on heat pipes for fluid-bed gasification of coal [LA-UR-74-984] 05 p0029 N75-12252 Energy and the environment: Electric power 05 p0030 N75-12438 Energy and the environment in Baden-Wuertteaberg [KFK-1966-UF] 05 p0030 N75-12439 Program plan for environmental effects of energy [PB-235115/3] 05 p0040 N75-15177 Comparison of the environmental aspects of nuclear and fossil fueled power stations [CONF-740555-1] 06 p0077 N75-16995 OCS oil and gas: An environmental assessment, Volume 1 06 p0083 N75-17837 Pollutional problems and research needs for an oil shale industry [PB-236608/6] 06 p0084 N75-17848 Environmental aspects of methanol as vehicular fuel: Health and environmental effects [UCRL-76076] 06 p0095 N75-19867 Environmental aspects of cadmium sulfide usage in solar energy conversion. Part 1: Toxicological and environmental health considerations, a bibliography [PB-238285/1] 06 p0105 N75-20884 Evaluation of power facilities; A reviewer's handbook electric and nuclear power plants [PB-239221/5] 07 p0146 N75-24198 Mineral resources and the environment energy conservation and energy policy [PB-239579/6] 07 p0153 N75-26486 ENVIRONMENT MANAGEMENT The solution of information-deficiency problems of electroenergy technology optimal decision making 06 p0062 A75-28508 ENVIRONMENT POLLUTION Environmental impact of a geothermal power plant 06 p0049 A75-23291 Limit lead in gasoline
A systems approach to innovative solutions to the energy problem [PB-242189/9] BWBRGY TRANSPER The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The intrinsic instability of the magnetic configuration O6 p0064 A75-29137 Calculation of flat-plate collector loss coefficients of solar radiation O7 p0109 A75-29480 Can hydrogen transmission replace electricity O8 p0165 A75-38863 Will hydrogen transmission replace electricity O8 p0172 A75-42281 Solar energy absorber [NASA-CASE-MFS-22743-1] Selthods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-MS] Continued development of energy transmission and conversion systems applied to operation of mechanical hearts [PB-236181/4] Energy recovery from solid waste production engineering model O6 p0079 N75-17200 Agnetic Energy Transfer and Storage (METS) program schedules for a Fusion Test Reactor (FTR) [LA-5748-MS] O6 p0106 N75-21097 ENGINE CONTROL Powerplant energy management transport aircraft engine thrust control [AIAA PAPER 74-1066] Backfire control techniques for hydrogen-fueled internal combustion enginees O8 p0178 A75-44789	resources and environment 08 p0179 A75-44809 Process environment effects on heat pipes for fluid-bed gasification of coal [LA-UR-74-984] 05 p0029 N75-12252 Energy and the environment: Electric power 05 p0030 N75-12438 Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 Program plan for environmental effects of energy [PB-235115/3] 05 p0040 N75-15177 Comparison of the environmental aspects of nuclear and fossil fueled power stations [CONF-740555-1] 06 p0077 N75-16995 OCS oil and gas: An environmental assessment, Volume 1 06 p0083 N75-17837 Pollutional problems and research needs for an oil shale industry [PB-236608/6] 06 p0084 N75-17848 Environmental aspects of methanol as vehicular fuel: Health and environmental effects [UCEL-76076] 06 p0095 N75-19867 Environmental aspects of cadmium sulfide usage in solar energy conversion. Part 1: Toxicological and environmental health considerations, a bibliography [PB-238285/1] 06 p0105 N75-20884 Evaluation of power facilities; A reviewer's handbook electric and nuclear power plants [PB-239221/5] 07 p0146 N75-22198 Mineral resources and the environment energy conservation and energy policy [PB-239579/6] 07 p0153 N75-26486 ENVIRONMENT MANAGEMENT The solution of information-deficiency problems of electroenergy technology optimal decision making 06 p0062 A75-28508 ENVIRONMENT POLLUTION Environmental impact of a geothermal power plant 06 p0049 A75-23291

ENVIRONMENT PROTECTION SUBJECT INDEX

·	
Report of the Interagency Working-Group on health	OCS oil and gas: An environmental assessment,
and environmental effects of energy use [PB-237937/8] 06 p0084 #75-17858	Volume 5 06 p0084 H75-17840
Problems in electric power production and environmental pollution	Environmental impacts, efficiency, and cost of energy supply and end use, volume 2
[ISS-T-73/16] 07 p0128 #75-21793	[PB-239159] 07 p0149 B75-25306
Symposium proceedings: Environmental Aspects of Puel Conversion Technology	Mineral resources and the environment. Appendix to section 3: Report of panel on the
[PB-238304/0] 07 p0145 H75-24179	implications of mineral production for health
Proceedings of the Workshop on Research Heeds	and the environment
Related to Water for Energy [PB-241346/6] 08 p0208 H75-31581	[PB-239582/0] 07 p0153 H75-26489 ENVIRONNEUTAL SURVEYS
ENVIRONMENT PROTECTION	The bioenvironmental impact of air pollution from
Energy crisis - Fact or fiction 05 p0011 A75-12115	fossil-fuel power plants [PB-237720/8] 06 p0090 E75-18782
International energy problems and environmental	Imperial Valley's proposal to develop a guide for
policy 05 p0014 175-13597	geothermal development within its county 06 p0100 N75-20844
Interaction between the fuel-energy complex and the environment	Nuclear energy center site survey: Scope of work
07 p0110 A75-29800	[PB-240453/1] 07 p0152 B75-25348 Environmental statement related to the proposed
Environmental aspects of fusion reactors 08 p0170 A75-41434	Callaway Plant units 1 and 2. Union Blectric
Environmental impact of a suitable nuclear power	Company docket nos. STN 50-483 and STN 50-486 [PB-240193/3] 07 p0152 N75-25349
 reactor used to provide a process heat system to synthesize fuels 	The impact of energy development on water
08 p0179 A75-44808	resources in arid lands. Literature review and annotated bibliography
Impact of motor gasoline lead additive regulations on petroleum refineries and energy resources,	[PB-240008/3] 07 p0157 B75-26550
1974-1980, phase 1	Regional impacts of alternative energy allocation strategies environmental impact of energy
[PB-234185/7] 05 p0025 N75-10601 Public works for water and power development and	crisis and its shortages [PB-241125/4] 08 p0205 N75-30667
Atomic Energy Commission Appropriation Bill,	Process and environmental technology for producing
1975. Part 6: Tennessee Valley Authority [GPO-32-403] 05 p0026 N75-10859	SNG and liquid fuels [PB-242774/8] 08 p0212 N75-33491
The Environmental protection agency industrial	An evaluation of oceanographic and socioeconomic
technology transfer program 06 p0078 N75-17193	aspects of a nearshore ocean thermal energy conversion pilot plant in subtropical Hawaiian
The action of EDF in the prevention of atmospheric	waters
pollution by expanding nuclear electric power generation	[PB-242167/5] 08 p0213 H75-33509 BPITAXY
[BLL-CE-TRANS-6500-(9022.09)] 06 p0083 N75-17833	Epitarial silicon solar cell
Proceedings of the New York State Assembly/AISLE Conference on Energy and the Environment, Volume 1	06 p0056 A75-25086 EQUIPMENT SPECIFICATIONS
[PB-237936/0] 06 p0091 N75-18801 Geothermal reservoir simulation	Power collection reduction by mirror surface nonflatness and tracking error for a central
06 p0101 N75-20852	receiver solar power system
Science and Technology Applications Act of 1974 energy sources and environment protection	07 p0120 A75-36305 Design installation and operation of a 25
[GPO-41-407]. 08 p0209 #75-31961	ton-a-day coal gasification process development
ENVIRONMENTAL CONTROL Wind energy utilization prospects	unit for the agglomerating burner-gasification [PB-237625/9] 06 p0087 B75-18734
07 p0117 A75-34928	RRBIUM COMPOUNDS
Solar climate control - Evaluating the commercial possibilities	Cylindrical erbium oxide radiator structures for thermophotovoltaic generators
08 p0168 A75-40297	[AD-A001525] 07 p0129 H75-21806
Solar heating and cooling of buildings. Phase 0: Final report. Executive summary	ERGODIC PROCESS Fluctuations of electric power in MHD channels
[PB-235426/4] 05 p0042 H75-15195 BHVIROHMENTAL HONITORING	07 p0110 A75-30949
Remote sensing applied to energy-related problems;	Methane in the Pittsburgh coalbed, Washington
Proceedings of the Symposium-Course, Miami, Fla., December 2-4, 1974	County, Pennsylvania [PB-237848/7] 06 p0089 #75-18760
07 p0118 A75-35451	Mineral resources and the environment. Appendix
Remote sensing for Western coal and oil shale development planning and environmental analysis	to section 2: Report of panel on estimation of mineral reserves and resources
07 p0118 A75~35458	[PB-239581/2] 07 p0153 #75-26488
Multispectral data systems for energy related problems strip mining and power plant site	ESTUARIES Optimising pumped storage with tidal power in an
monitoring	estuary
07 p0118 A75-35464 Remote sensing applied to mine subsidence -	[ASHE PAPER 74-WA/PWR-7] 05 p0018 A75-16881
Experience in Pennsylvania and the Hidwest	V-grooved silicon solar cells
07 p0121 A75~36809 Institutional and environmental problems in	07 p0123 A75-37397
geothermal resource development 06 p0100 m75-20843	The oxidation of ethylene in automotive engine exhaust gas; an experimental investigation
ENVIRONMENTAL QUALITY	07 p0138 #75-23719
Energy and environmental standards environmental standards and energy policy	EUROPEAN SPACE PROGRAMS Solar generator and power systems for
[GPO-37-171] 05 p0030 N75-12431	communication satellites
OCS oil and gas: An environmental assessment, Volume 2	08 p0206 m75-31165
06 p0084 H75-17838	Initial comparisons of solar collector performance
OCS oil and gas: An environmental assessment, volume 4	data obtained out-of doors and with a solar simulator
06 p0084 N75-17839	[NASA-TH-X-71626] 08 p0211 H75-32595

SUBJECT INDEX FIBLAND

EVAPORATORS Hot side heat exchanger for an ocean thermal	Lighter than air - A look at the past, a look at the possibilities
difference power plant 05 p0004 A75-10527 Transverse header heat pipe	06 p0056 A75-25995 Is massive solar energy conversion a practical prospect
[AIAA PAPER 75-656] 07 p0114 A75-32914	08 p0174 A75-44752 Hydrogen as an energy carrier feasibility
The initiatives of the Los Alamos Scientific Laboratory in the transfer of a new excavation	analysis 08 p0178 A75-44796
technology 06 p0079 N75-17203	An engineering assessment of the hydrogen economy 08 p0180 A75-44814
EXHAUST GASES Utilization of plasma exhaust energy for fuel	Technical and economic evaluation of solar heating and cooling of buildings
production [COO-3028-7] 05 p0028 N75-11465	08 p0184 A75-45921 Report of the Wind Power Committee a
Project Clean Air 1972, LNG conversion of GM-71 series diesel engine considering automobile	feasibility analysis of the use of wind for a major energy source
exhaust gases control [PB-236585/6] 06 p0090 N75-18783	[NASA-TT-F-16062] 05 p0039 N75-15154 Solar heating and cooling of buildings. Phase O.
Inspection and maintenance of light-duty gasoline powered motor vehicles: \(\) guide for	Peasibility and planning study. Volume 3, book 2, appendix c, task 3: Assessment of capture
implementation emissions inspection program [PB-236587/2] 06 p0090 N75-18784	potential. Appendix d, task 4: Social and environmental study
The oxidation of ethylene in automotive engine exhaust gas; an experimental investigation	[PB-235434/8] 06 p0070 N75-16108 Pollution-free electrochemical power generation
07 p0138 N75-23719 Characterization of sulfur recovery from refinery	from low grade coal [PB-236162/4] 06 p0070 N75-16109
fuel gas [PB-239777/6] 07 p0151 N75-25326	Sixty minute thermal battery: A feasibility study [SLA-73-5888] 06 p0077 M75-16994
#ethane emission from U.S. Coal mines in 1973, a survey [PB-240154/5] 07 p0152 N75-25354	Solar thermal power systems based on optical transmission [PB-237005/4] 06 p0088 M75-18742
EXHAUST SYSTEMS Heat pipe thermal recovery units for process	Electric power generation using geothermal brine resources for a proof of concept facility
exhaust energy utilization 08 p0194 A75-46041	06 p0101 N75-20857 The potential for developing Alaskan coals for
EXPERIMENTAL DESIGN State of the art and prospects for electric vehicles	clean export fuels, phase 1 [PB-238539/1] 07 p0127 N75-21786
[BLL-OA-TRANS-1250-(6196.3)] 06 p0074 N75-16712 EXTERNAL COMBUSTION ENGINES	Feasibility study of a 100 megawatt open cycle ocean thermal difference power plant
Stirling engines - Capabilities and prospects 06 p0048 A75-23237	[PB-238571/4] 07 p0130 N75-21821 FEDERAL BUDGETS
EXTRATERRESTRIAL RESOURCES Space and energy - Some legal problems extraterrestrial resources and sclar energy	Public works for water and power development and Atomic Energy Commission Appropriation Bill, 1975. Part 6: Tennessee Valley Authority
exploitation 08 p0183 A75-45885	[GPO-32-403] 05 p0026 N75-10859 Energy imports and the US balance of payments [GPO-28-965] 07 p0141 N75-24114
The utilization of space as a source of energy for the earth 08 p0183 A75-45893	[GPO-28-965] 07 p0141 N75-24114 FBED SYSTEMS Hydrazine gas generation for pressure gas feed
•	systems 08 p0166 A75-39134
F-15 AIRCRAFT	FERMENTATION Energy problems - Solar energy and manure gas
P-15 secondary power systems [SAE PAPER 740885] 06 p0048 A75-22948	05 p0020 A75-17024 Biological conversion of organic refuse to methane
PROCESS development for low cost integrated solar	[PB-235468/6] 05 p0041 H75-15183 FEBROBLECTRICITY
arrays 06 p0054 A75-24259 PABRI-PEROT INTERFEROMETERS	Dielectric power conversion 08 p0189 A75-45979
Interferometric tuning of a 15-atm CO2 laser 06 p0058 A75-27518	Progress of ISL research on energy conversion in ferroelectric ceramics of the type Ph(ZrLxTix)03 [ISL-29/74] 08 p0208 N75-31910
Army installation energy requirements in CONUS [AD-A008951] 08 p0205 N75-30660	PERTILIZERS Energy and fixed nitrogen from agricultural residues [BNWL-SA-5070] 06 p0103 N75-20874
The effect of recent energy price increases on	Economic impact of shortages on the fertilizer industry [PB-240418/4] 08 p0204 M75-29953
field crop production costs [PB-238659/7] 06 p0107 N75-21155 Solar powered pump	FIGURE OF MERIT Heat mirrors for solar-energy collection and
[NASA-CASE-NPO-13567-1] 07 p0133 N75-22746 Use of thermally enriched water for growing field	radiation insulation 05 p0004 A75-10525
crops in Minnesota [PB-240112] 07 p0159 N75-27549	FILM CONDENSATION Investigations of the factors affecting the
FARMLANDS Fuel as an agricultural crop	performance of a rotating heat pipe 07 p0120 A75-36357
PAST NUCLEAR REACTORS 08 p0 172 A75-42533	PINANCIAL MANAGEMENT Investment possibility of financial institutions
Clinch River Breeder Reactor: A combined power and fuel source	in solar heating [PB-239756/0] 07 p0155 N75-26511
[CONF-740609-4] 05 p0038 N75-14593 PRASIBILITY AMARYSIS Potential for large-scale operation for large-scale operations in	Special Energy Research and Development Appropriation Act, 1975 Englar ag = 2221 OR n0209 N75-31957
Potential for large-scale energy storage in electric utility systems [ASBE PAPER 74-WA/ENER-9] 05 p0016 A75-16840	[PUB-LAW-93-322] 08 p0209 N75-31957 FIBLAND Technology and community development materials
Power from aves [ASME:PAPER 74-WA/PWR-5] 05 p0018 A75-16879	processing, and electrical and nuclear technology technical research center of Finland
	05 p0031 m75-12695

•	
PISSILE PUELS	PLOW STABILITY
Optimization of fusion power density in the	Arterial gas occlusions in operating heat pipes
two-energy-component tokamak reactor	[AIAA PAPER 75~657] 07 p0114 A75-32915
07 p0124 A75-37836	PLUIDIC CIRCUITS
PISSION	Study of an electrofluidic generator
Interesting possibilities of fusion-fission	08 p0189 A75-45978
for thermonuclear power generation	FLUIDIZED BED PROCESSORS
[BNWL-SA-5069] 06 p0096 N75-20106	Small coal burning gas turbine for modular
PLANES	integrated utility systems
Energy conversion. 1: Non-propulsive aspects	05 p0006 A75-10546
fuels and pyrotechnics	Use of low grade solid fuels in gas turbines
[AD-A000077] 06 p0079 N75-17454	[ASME PAPER 74-WA/ENER-5] 05 p0016 A75-16837
PLAT PLATES	Development of coal fired fluidized-bed boilers
Status of the NASA-Lewis flat-plate collector	[PB-235899/2] 06 p0065 N75-15668
tests with a sclar simulator	Development of coal fired fluidized-bed boilers
06 p0058 A75-27533	[PB-235898/4] 06 p0065 N75-15669
Calculation of flat-plate collector loss	Pressurised fluidized bed combustion
coefficients of solar radiation	combustion physics, gas turbines
07 p0109 A75-29480	[PB-236498/2] 06 p0065 N75-15769
Numerical modeling of flat plate solar collectors	Pressurized fluidized bed combustion
[AIAA PAPER 75-739] 07 p0113 A75-32861	[PB-235591/5] 06 p0065 N75-15772
Outdoor flat-plate collector performance	Reduction of atmospheric pollution by the
prediction from solar simulator test data	application of fluidized-bed combustion
[AIAA PAPER 75-741] 07 p0113 A75-32862	[PB-235840/6] 06 p0072 N75-16151
Field performance and operation of a flat-glass	Energy conversion from coal utilizing CPU-400
solar heat collector	technology
07 p0115 A75-33973	[PB-237028/6] 06 p0083 N75-17828
Methodology of research of flat-plate solar	Coal combustion and desulfurization in a rotating
collector absorptive coatings	fluidized bed reactor
07 p0117 A75-34935	[BNL-19308] 07 p0129 N75-21799
Power collection reduction by mirror surface	Chemically active fluid-bed process for sulphur
nonflatness and tracking error for a central	removal during gasification of heavy fuel oil,
receiver solar power system	phase 2
07 p0120 A75-36305	[PB-240632/0] 07 p0159 N75-27556
The evaluation of surface geometry modification to	FLUIDS
improve the directional selectivity of solar	Solar energy trap
energy collectors	[NASA-CASE-MPS-22744-1] 05 p0024 N75-10586
[PB-238509/4] 07 p0130 N75-21822	PLYWERELS
Conservation and better utilization of electric	Betals and composites in superflywheel energy .
power by means of thermal energy storage and	storage systems
solar heating. Solar collector performance	06 p0047 A75-22523
studies .	Design and testing of an energy flywheel for an
[PB-239355/1] 07 p0150 N75-25320	Integrated Power/Attitude Control System /IPACS/
Method of testing for rating solar collectors	[AIAA PAPER 75-1107] 08 p0171 A75-41669
based on thermal performance flat plate	Storage of energy in kinetic batteries for an
collectors	earth resources satellite
[COM-75-10276/4] 07 p0150 N75-25321	[IAP PAPER ST-75-09] 08 p0183 A75-45875
FLAT SURFACES	Energy storage by flywheels
Thermokinetics of a flat solar collector of	08 p0185 A75-45930
constant heat caracity	Design and test of a flywheel energy storage unit
08 p0171 A75-41768	for spacecraft application
Investigation of a solar concentrator with	08 p0193 A75-46028
hexahedral glass facets	The multirim superflywheel
08 p0180 A75-45061	[AD-A001081] 06 p0085 N75-18594
A nearly perfect sclar energy concentrator made up	Plywheel energy systems
of tapered mirror facets with constant	[SAND-74-0113] 07 p0129 N75-21802
transverse curvature	POCUSING
08 p0 180 A75-45062	New applications for optical components - High
Moderately concentrating flat-plate solar energy	energy focusing
collectors	05 p0015 A75-16525
[ASME PAPER 75-HT-54] 08 p0196 A75-47526	Evaluation of focusing solar energy collectors
FLEXIBLE BODIES	08 p0168 A75-40300
Investigations and selection of components and	A tower-top point focus solar energy collector
materials for flexible solar generator 06 p0050 A75-24182	FOLDING STRUCTURES 08 p0174 A75-44753
A flexible cryogenic heat pipe	Latest developments of the circular solar array
	with deployment structure for central antenna communication satellite
PLIGHT CHARACTERISTICS	06 p0053 A75-24246
Impact on aerodynamic design 06 p0075 N75-16982	FOOD
	Industrial energy study of selected food industries
PLIGHT OPTIMIZATION Certain problems of fuel consumption in air	[PB-237316/5] 06 p0083 N75-17827
	PORBCASTING
transport 05 p0011 A75-11372	The design and development of an interactive
Extended energy management methods for flight	"energy model
performance optimization	[PB-236144/2] O6 p0070 N75-16110
[AIAA PAPER 75-30] 05 p0021 A75-18269	The future of the US nuclear energy industry
FLIGHT TESTS	[PB-242164/2] 08 p0214 N75-33511
Cryogenic heat pipe experiment - Flight	POREIGH POLICY
performance onboard a sounding rocket	Energy and security: Implications for American
[AIAA PAPER 75-729] 07 p0113 A75-32872	policy
FLIGHT TIME	[AD-785084] 05 p0032 H75-12857
'Time is energy' /Henson and Stringfellow Memorial	Energy imports and the US balance of payments
Lecture/ VTOL aircraft developments	[GPO-28-965] 07 p0141 N75-24114
07 p0112 A75-32324	Energy and foreign policy
FLOW CHARTS	[GPO-22-562] 07 p0142 N75-24125
US energy flow charts for 1950, 1960, 1970, 1980,	
1985, and 1990	
[UCRL-51487] 05 p0024 N75-10593	•
- · · · · · · · · · · · · · · · · · · ·	

SUBJECT INDEX FUEL COMBUSTION

PORBIGM TRADE The economic impact of an interruption in United States petroleum imports: 1975 - 2000	Natural convection in enclosed spaces - A review of application to solar energy collection [ASME PAPER 74-WA/HT-12] 05 p0017 A75-16860
[AD-A010914] 08 p0214 H75-33931 PORESTS	FURL CAPSULES Soil burial of radioisotopic fuel capsules
Parametric study for a pyrolytic system for production of fuels from agricultural and	96 p0046 A75-21274 PUBL CELLS
forestry wastes 08 p0187 A75-45950	Metal hydride fuel cell power source 05 p0008 A75-10564
POSSIL PUBLS The production of gaseous energy carriers from	Milliwatt fuel cell system for sensors 05 p0008 A75-10565
fossil fuels 06 p0049 175-23502	Methanol/air acidic fuel cell system 05 p0008 A75-10566
An econometric analysis of fuel selection for power generation	60 watt hydride-air fuel cell system 05 p0008 A75-10567
06 p0055 A75-24751 A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam	Prospects and scientific problems of the utilization of methods of direct electric power generation from chemical fuels /fuel cells/
power plant [AIAA PAPER 75-624] 06 p0062 A75-28596	05 p0012 A75-12911 The FCG-1 fuel cell powerplant for electric
Remote sensing for Western coal and oil shale development planning and environmental analysis	utility use 05 p0013 A75-12992
07 p0118 A75-35458 Energy survey - What can R&D do by 1985 fossil fuel utilization	Hydrogen fuel cells and motors new energy technology 06 p0046 A75-22042
08 p0169 A75-40617 HHD electrical power generation from fossil fuels	Corrosion and related problems in high-temperature cells
[AIAA PAPER 75-1236] 08 p0 182 A75-45648 Technological and commercial possibilities which result by using a high temperature reactor for	06 p0055 A75-24377 Porous matrix structures for alkaline electrolyte fuel cells
the future supply of mineral oil in the PRG [JUL-1017-RG] 05 p0029 N75-11470	07 p0123 A75-37243 Hydrazine as a fuel for a fuel cell
Bureau of Mines research 1973. Summary of significant results in mining, metallurgy, and energy	08 p0166 A75-39132 Batteries and fuel cells in the electrical generating industry
[PB-234733/4] 05 p0040 N75-15171 Comparison of the environmental aspects of nuclear	08 p0166 A75-39198 Energy 10; Annual Intersociety Energy Conversion
and fossil fueled power stations [CONF-740555-1] 06 p0077 N75-16995	and Engineering Conference, 10th, University of Delaware, Newark, Del., August 18-22, 1975, Record
Summary report of workshop on Energy Related Basic Combustion Research	08 p0 183 A75-45920 Solid polymer electrolysis fuel cell status report
[PB-236714/2] 06 p0079 N75-17456 Operational, maintenance, and environmental	08 p0186 A75-45942 Phosphoric acid fuel cell stack development
problems associated with a fossil fuel-fired potassium steam binary vapor cycle	08 p0186 A75-45943
[ORNL-NSF-EP-30] 06 p0090 N75-18769 The bioenvironmental impact of air pollution from	plants 08 p0186 A75-45944 The EPA-Van - A clean energy system for the home
fossil-fuel power plants [PB-237720/8] The collaborative study of EPA methods, 5, 6, and	mobile test station for nonpolluting systems 08 p0186 A75-45946
7 in fossil fuel-fired steam generators [PB-237695/2] 06 p0091 N75-18788	Application of fuel cells with heat recovery for integrated utility systems
Evaluation of pollution control in fossil fuel conversion processes: Gasification. Section 1:	08 p0187 A75-45949 An intercell heat pipe for fuel cell and battery
Lurgi process [PB-237694/5] Technology and use of lights Technology and use of lights	cooling [AD-782888] 05 p0027 N75-11226 Evaluation of an ion exchange membrane fuel cell
Technology and use of lighte [PB-238666/2] O7 p0142 N75-24131	for space power [AD-786888] 05 p0037 N75-14274
Environmental impacts, efficiency, and cost of energy supply and end use, volume 2 [PB-239159] 07 p0149 N75-25306	Status and outlook for energy conversion via fuel cells
Evaluation of pollution control in fossil fuel conversion processes. Liquefaction, section 1:	[CONF-740462-1] 06 p0087 N75-18729 Fuel cells: Direct conversion of electrochemical
COED process [PB-240371/5] 07 p0162 N75-27626	energy into electricity [SAND-74-0125] 06 p0103 h75-20869
A summary of significant results in mining metallurgy and energy, Bureau of Mines Research	Blectrolyte for hydrocarbon air fuel cells [AD-A007220] 07 p0136 N75-22917
1974 [PB-241084/2] 08 p0199 N75-28514	Study of fuel cell powerplant with heat recovery [NASA-CR-141854] 07 p0148 N75-25296
Evaluation of pollution control in fossil fuel conversion processes: Gasification. Section 1:	FURL COMBUSTION Combustion dynamics research for 'Project
CO2 acceptor process [PB-241141/1] 08 p0204 N75-29596	Independence' [AIAA PAPER 74-1069] 05 p0001 A75-10262
PRACTURE MECHANICS A practical model law for chemical explosive	Combustion R&D - Key to our energy future pollution reduction using hydrocarbon fuels
fracture of oil shale 06 p0078 N75-17023	05 p0009 A75-10596 Coal-gas combustion in industrial gas turbines
PARCTURING Practure-induced permeability: Present situation	[AIAA PAPER 74-1114] 05 p0010 A75-11286 The Stirling engine for wehicle propulsion
and prospects for coal [UCID-16593] 06 p0094 N75-19830	06 p0050 A75-23509 Availability and propulsion fuel combustion
PRANCE Wind power projects of the French electrical	energy calculations for turbojet 08 p0195 A75-46548
authority [NASA-TT-F-16057] 05 p0033 N75-13384	Compilation of air pollutant emission factors, second edition, supplement no. 3 fuel
REE CONVECTION Steady state free convection in an unconfined	combustion and consumption [PB-235736/6] 06 p0073 N75-16152
geothermal reservoir	

05 p0009 A75-11069

•	
The oxidation of ethylene in automotive engine exhaust gas; an experimental investigation	Future long-range transports: Prospects for improved fuel efficiency
07 p0138 N75-23719 In situ combustion of coal for energy	[NASA-TM-X-72659] 06 p0079 N75-17339 Intermediate-term energy programs to protect
[PE-241892/9] 08 p0211 N75-32603 PUBL CONSUMPTION	against crude-petroleum import interruptions: Peasible alternatives, program costs, and
Powerplant energy management transport aircraft engine thrust control	operational methods of funding [PB-237209/2] 06 p0083 B75-17826
[AIAA PAPER 74-1066] 05 p0001 A75-10259 Energy from urban wastes	Proceedings of the New York State Assembly/AISLE Conference on Energy and the Environment, Volume 1
05 p0006 A75-10548	[PB-237936/0] 06 p0091 B75-18801
Certain problems of fuel consumption in air transport 05 p0011 A75-11372	Puel conservation possibilities for terminal area compatible aircraft [NASA-CR-132608] 06 p0091 N75-19224
Next generation transports will emphasize fuel savings	Evaluation of advanced lift concepts and fuel conservative short-haul aircraft, volume 1
05 p0011 A75-11426 Fuel outlook dictating technical transport research	[NASA-CR-137525] 06 p0096 N75-20291 Evaluation of advanced lift concepts and fuel
Rating aircraft on energy	conservative short-haul aircraft, volume 2 [NASA-CR-137526] 06 p0097 N75-20292
05 p0015 A75-14346 Effectiveness of using semiconductor heat pumps	A USAF energy projection model [AD-A006928] 07 p0132 H75-22476
under the conditions of the Turkmen SSR 05 p0020 A75-17083	Technological improvements to automobile fuel consumption. Volume 1: Executive summary
Extended energy management methods for flight	[PB-238677/9] 07 p0132 B75-22478
performance optimization [AIAA PAPPR 75-30] 05 p0021 A75-18269	Technological improvements to automobile fuel consumption. Volume 2A: Sections 1 through 23
Conceptual design of reduced energy transports [AIRA PAPER 75-303] 06 p0047 A75-22508	[PB-238678/7] 07 p0132 N75+22479 Technological improvements to automobile fuel
Puture long-range transports - Prospects for improved fuel efficiency	consumption. Volume 2B: Sections 24 and 25 and appendixes A through I
[ATAA PAPER 75-316] 06 p0047 A75-22514 Air transportation energy consumption - Yesterday,	[PB-238679/5] 07 p0132 N75-22480
today, and tomorrow	A study of technological improvements in automotive fuel consumption. Volume 1:
[AIAA PAPER 75-319] 06 p0047 A75-22515 An econometric analysis of fuel selection for	Executive summary [PB-238693/6] 07 p0132 N75-22481
power generation 06 p0055 A75-24751	A study of technological improvements in automobile fuel consumption. Volume 2:
Part load specific fuel consumption of gas turbines 06 p0063 A75-28650	Comprehensive discussion [PB-238694/4] 07 p0132 N75-22482
'Time is energy' /Henson and Stringfellow Memorial Lecture/ VIOL aircraft developments	A study of technological improvements in automobile fuel consumption. Volume 3A:
07 p0112 A75-32324 Design of short haul aircraft for fuel conservation	Appendixes 1 - 111 [PB-238695/1] 07 p0133 N75-22483
[SAE PAPER 750587] 08 p0169 A75-40502 Fuel conservation possibilities for terminal area	A study of technological improvements in automobile fuel consumption. Volume 3B:
compatible transfort aircraft [AIAA PAPER 75-1036] 08 p0171 A75-41698	Appendixes 4 - 7 [PB-238696/9] 07 p0133 H75-22484
Weight contribution to fuel conservation for terminal area compatible aircraft	The 1973 fuel and electrical energy requirements of selected mineral industries activities
[SAWE PAPER 1091] 08 p0196 A75-47509 Total energy use fcr commercial aviation in the US	07 p0134 N75-22899 Industrial energy study of the drug manufacturing
[ORNL-NSP-EP-68] 05 p0023 N75-10039 Transportation vehicle energy intensities. A	industries for the Pederal Energy Administration/US Department of Commerce
joint DOT/NASA reference paper energy consumption of air and ground vehicles	[PB-238994/8] 07 p0142 N75-24130 Energy system modeling-interfuel competition
[NASA-TH-X-62404] 05 p0035 N75-13690 The prospects for gasoline availability: 1974	[PB-239292/6] 07 p0143 N75-24140 The impact of energy shortages on the iron and
[GPO-34-969] 05 p0039 N75-15155 Fuel conservation capability and effort by	steel industries [PB-238749/6] 07 p0145 b75-24158
commercial air carriers	US energy and fuel demand to 1985, a composite
[NASA-CR-137624] 05 p0039 N75-15157 Interfuel substitution in the consumption of	projection by user within Petroleum Administration for Defense (PAD) districts
energy in the United States. Part 1: Residential and commercial sector	[PB-239343/7] 07 p0151 N75-25322 Fuel use in the US electrical utility industry,
[PB-234536/1] 05 p0040 N75-15178 Caltech seminar series on energy consumption in	1971 - 1990 07 p0154 N75-26493
private transportation (PB-235348/0) 05 p0040 N75-15179	Energy rationing and energy conservation: Foundations for a social policy
Caltech seminar series on energy consumption in	[PB-239766] 07 p0162 N75-27579
private transportation: Administrative summary [PB-235349/8] 05 p0041 N75-15184	Increased fuel economy in transportation systems by use of energy management. Volume 1: General
Engine development program for the APL remotely piloted vehicle	results and discussion [PB-240220/4] 07 p0163 B75-27970
[AD-787507] 06 p0065 N75-15658 Puel availability and allocation in the United	Measure for reducing energy consumption for homeowners and renters
States [GPO-31-711] 06 p0067 N75-16081	[PB-240472/1] 08 p0201 B75-28546 The long term energy problem and aeronautics
The design and development of an interactive energy model	08 p0202 N75-29012 Energy intensity of barge and rail freight hauling
[PB-236144/2] 06 p0070 N75-16110	[PB-240012/5] 08 p0202 N75-29269
Compilation of air pollutant emission factors, second edition, supplement no. 3 fuel	Fuel conservation in ship operations [COM-75-10466/1] 08 p0202 p75-29270
combustion and consumption [PB-235736/6] 06 p0073 N75-16152	Environmental regulations and energy for home heating
Evaluation of advanced lift concepts and potential fuel conservation for short-haul aircraft	[PB-240699/9] 08 p0203 N75-29587 Waste automotive lubricating oil reuse as a fuel
[NASA-CR-2502] 06 p0073 N75-16557	[PB-241357/3] 08 p0204 N75-30331

SUBJECT INDEX GAS COOLED PAST REACTORS

Projected regional energy availability in 1985	Hydrazine gas generation for pressure gas feed
[AD-A008938] 08 p0205 N75-30659 Army installation energy requirements in CONUS	systems 08 p0166 A75-39134
[AD-A008951] 08 p0205 N75-30660	Low thermal flux glass-fiber/metal vessels for LH2
Fuel-conservative engine technology	storage systems
08 p0206 N75-31074 Providing for a national fuels and energy	08 p0177 A75-44783 Erecting gas storage facilities and oil centers
conservation policy, establishing an office of	[AD-A006559] 07 p0134 N75-22783
energy conservation in the Department of the	PUELS
Interior, and for other purposes [B-REPT-93-1546] 08 p0208 N75-31953	An evaluation of discarded tires as a potential source of fuel
Study of potential for motor vehicle fuel economy	05 p0012 A75-12416
improvement. Fuel economy test procedure panel	Effective utilization of solar energy to produce
report no. 6 [PB-241776/4] 08 p0210 N75-32470	clean fuel [PB-233956/2] 05 p0026 N75-10605
Study of potential for motor vehicle fuel economy	Iron titanium hydride as a source of hydrogen fuel
improvement. Technology panel report no. 4	for stationary and automotive applications
[PB-241774/9] 08 p0210 N75-32471 Identification and characterization of the use of	[BNL-18651] 05 p0030 N75-12441 Energy conversion. 1: Non-propulsive aspects
mixed conventional and waste fuels fuel	fuels and pyrotechnics
consumption/air pollution	[AD-A000077] 06 p0079 N75-17454
[PB-241821/8] 08 p0211 N75-32606 Study of potential for motor vehicle fuel economy	Fuel gas production from solid waste [PB-238068/1] 06 p0095 N75-19843
improvement. Safety implications panel report	Technical evaluation services, clean liquid and/or
no. 2	solid fuels from coal
[PB-241772/3] 08 p0212 N75-33410 Study of potential for motor vehicle fuel economy	[PB-237216/7] 07 p0129 N75-21803 Hydrogen as a fuel
improvement. Truck and bus panel report no. 7	[AD-A006984] 07 p0132 N75-22477
[PB-241777/2] 08 p0212 N75-33411	Where the boilers are: A survey of electric
Project Independence report: A review of US energy needs up to 1985	utility boilers with potential capacity for burning solid waste as fuel
[PB-242142/8] 08 p0213 N75-33506	[PB-239392/4] 07 p0143 N75-24135
Direct and indirect energy demand models for DoD	Symposium proceedings: Environmental Aspects of
[AD-A010968] 08 p0214 N75-33515 FUEL CONTROL	Fuel Conversion Technology [PB-238304/0] 07 p0145 N75-24179
Fuel energy systems - Conversion and transport	Identification and characterization of the use of
efficiencies	mixed conventional and waste fuels fuel
PUBL FLOW REGULATORS 05 p0007 A75-10554	consumption/air pollution [PB-241821/8] 08 p0211 N75-32606
Contribution to the improvement of the regulating	FULL SCALE TESTS
process of ignition controlled engines	Pull-scale tests of 'photovolt' high-voltage
[PUBL-165] 08 p0206 N75-31285 FUEL INJECTION	photocells at high light flux levels 07 p0122 175-37162
Contribution to the improvement of the regulating	FURNACES
process of ignition controlled engines	Utilizing fuel more efficiently in reheating and
[PUBL-165] 08 p0206 N75-31285 PUBL OILS	heat treatment furnaces [BLL-M-21957-(5828.4F)] 06 p0080 N75-17467
Char oil energy development	Survey of gas and oil burners for use with
[PB-233263/3] 05 p0025 N75-10603	NSF/RANN-ORNL potassium boiler
The approaching energy crisis: A call for action 05 p0030 N75-12432	[ORNL-NSF-EP-45] 06 p0087 N75-18728 Utilisation of waste heat from inductive melting
A short handbook on fuels and lubricants	installations
[AD-A004358] 07 p0158 N75-27170 Chemically active fluid-bed process for sulphur	[BLL-OA-TRANS-949-(6196.3)] 07 p0153 N75-26492 Solids emission from power station furnaces
removal during gasification of heavy fuel oil,	industrial pollution control
phase 2	[BLL-CE-TRANS-6524-(9022.09)] 07 p0157 N75-26528
[PB-240632/0] 07 p0159 N75-27556 Conversion of cellulosic wastes to oil	
[PB-240839/1] 07 p0161 N75-27572	G
Pinancial incentives and pollution control: A	GALLIUM ARSENIDES
case study [PB-241479/5] 08 p0208 N75-31610	<pre>High-efficiency graded band-gap Al/x/Ga/1-x/As-GaAs solar cell</pre>
FUEL SYSTEMS	06 p0058 A75-27519
Bnergy carriers in space conditioning and	GaAs concentrator solar cell
automotive applications - A comparison of hydrogen, methane, methanol and electricity	06 p0058 A75-27520 Power generation and efficiency in GaAs
. 05 p0005 A75-10540	traveling-wave amplifiers
Oxides of nitrogen control techniques for	07 p0110 A75-30750
appliance conversion to hydrogen fuel 05 p0006 175-10541	Dependence of the basic parameters of Al/x/Ga/1-x/As-GaAs solar converters on
Some LNG vehicle developments for automotive	temperature and optical intensity
conversion systems and fueling stations	07 p0112 A75-32824
06 p0048 A75-23236 Evaluation of the overall fuel mass penalty of an	Technique for producing 'good' GaAs solar cells using poor-quality substrates
allcraft system	08 p0195 A75-46721
07 p0121 A75-36720 Hydrazine gas generation for pressure gas feed	GALLIUM PHOSPHIDES
systems	GaP p-n junctions and possibilities for their application in the conversion of solar energy
08 p0166 A75-39134	into electric
Automotive hydrogen engines, and onboard storage methods	05 p0011 A75-12198
08 p0172 A75-42284	The household energy game
Potential structural material problems in a	[COM-75-10304/4] 07 p0161 N75-27578
hydrogen energy system [HASA-TH-X-71752] 07 p0154 N75-26500	GAS COOLED FAST REACTORS Study of the application of HTGR to a petroleum
FUEL TANKS	refinery petrochemical complex
Hydrogen as fuel for internal-combustion engines	[COMP-741144-1] 07 p0142 N75-24126
06 p0050 A75-23508	

GAS COOLED REACTORS Nuclear propulsion technology transfer to energy	Thermochemical hydrogen production research at Lawrence Livermore Laboratory
systems [AIAA PAPER 74-1072] 05 p0001 A75-10264 Nuclear reactor process heat capabilities,	08 p0177 A75-44780 Hydrogen production by electrolysis - Present and future
potential, and economics [CONF-741032-1] 07 p0131 N75-22112 GAS DISCHARGES	08 p0193 A75-46022 Hydrogen production by water electrolysis - Methods for approaching ideal efficiencies
Energy characteristics of coaxial plasma source [AD-787419] 06 p0073 B75-16368 GAS DISSOCIATION	08 p0193 A75-46023 Hydrogen as a fuel analysis of problems
Analysis of gas dissociation solar thermal power system	involved in generation, transportation, and utilization [AD-787484] 06 p0066 %75-15818
07 p0115 A75-33974 A search for thermochemical water-splitting cycles for energy production	A SASOL type process for gasoline, methanol, SNG, and low-Btu gas from coal [PB-237670/5] 06 p0095 N75-19838
08 p0177 A75-44782 GAS DYBAMICS Study of an electrofluidic generator	Technology for the conversion of solar energy to fuel gas [PB-238545/8] 07 p0136 N75-22919
O8 p0189 A75-45978	GAS LASERS Lasers for fusion
Project Rio Blanco data report: Production testing (RB-E-01), November 1973 and January - Pebruary 1974	08 p0166 A75-39333 Laser application of heat pipe technology in energy related programs
[NVO-148] 06 p0094 N75-19833 GAS FLOW	O8 p0195 A75-46044 GAS MIXTURES
Report on progress in achieving direct conversion of a major fraction of sonic flow kinetic power into electrical power by electrofluid dynamic	Concerning the use of a nitrogen-potassium gaseous mixture for protection of MHD-generator electrodes by suction
/BFD/ processes 05 p0009 A75-10576	GAS POCKETS 07 p0112 A75-31569
Thermal performance characteristics of heat pipes 06 p0046 A75-21465 GAS GENERATORS	Natural gas fields, Cook Inlet Basin, Alaska [PB-235767/1] 06 p0066 N75-16071 GAS PRESSURE
Energy problems - Solar energy and manure gas 05 p0020 A75-17024	Procedure for preparation for shipment of natural gas storage vessel
Efficiencies of electrolytic and thermochemical hydrogen production 06 p0045 A75-20300	[NASA-CR-141455] 05 p0036 N75-14135 GAS TEMPERATURE Heat pipe thermal control set point shift
Investigation of bubble formation in arteries of gas-controlled heat pipes	07 p0115 a75-33271 GAS TRANSPORT
[AIAA PAPER 75-655] 07 p0114 A75-32913 Prospects for electrolytic hydrogen for chemical/industrial plants	The Hydrogen Economy - A utility perspective energy technology 05 p0014 A75-12998
08 p0168 A75-40179 Photoproduction of hydrogen via microbial and biochemical processes	Energy supply in a closed cycle nuclear energy for nonelectrical use 06 p0049 A75-23503
08 p0171 A75-42279 High-temperature nuclear reactors as an energy source for hydrogen production	Arterial gas occlusions in operating heat pipes [AIAA PAPER 75-657] 07 p0114 A75-32915 GAS TURBINE REGINES
08 p0175 A75-44758 Hydrogen production with a high-temperature gas-cooled reactor /HTGB/	Use of low grade solid fuels in gas turbines [ASME PAPER 74-WA/ENER-5] 05 p0016 A75~16837 Part load specific fuel consumption of gas turbines
08 p0175 A75-44759 Hydrogen production from decomposition of water by means of nuclear reactor heat	06 p0063 175-28650 Recuperator development trends for future high temperature gas turbines heat exchanger design
08 p0175 A75-44760 Aqueous homogenecus reactor for hydrogen production	[ASRE PAPER 75-GT-50] 07 p0116 A75-34607 Component design considerations for gas turbine
08 p0175 A75-44761 Thermochemical water cracking using solar heat 08 p0175 A75-44765	HTGR power plant High-Temperature Gas-cooled Reactor [ASME PAPER 75-GT-67] 07 p0116 A75-34620
Photolysis of water as a solar energy conversion process - An assessment 08 p0176 A75-44766	Bffectiveness of using chemically reacting working media in a solar gas-turbine installation
The technology and economies of hydrogen production from fusion reactors	08 p0180 A75-45063 DOT/NASA comparative assessment of Brayton engines for guideway vehicles and busses. Volume 2:
08 p0176 A75-44767 An economic perspective on hydrogen fuel 08 p0176 A75-44769	Analysis and results [NASA-SP-354-VOL-2] O7 p0133 B75-22745 The role of computers in future propulsion controls
The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms	07 p0137 N75-23582 Aerodynamic design of a free power turbine for a 75 KW gas turbine automotive engine
08 p0176 A75-44770 An analysis of hydrogen production via	[NASA-TM-X-71714] 07 p0140 N75-24106 A compressor designed for the energy research and
closed-cycle schemes thermochemical processings from water . 08 p0176 A75-44771	development agency automotive gas turbine program [NASA-TM-X-71719] Development of low emission porous plate combustor
Electrolytic hydrogen generators 08 p0176 A75-44774	for automotive gas turbine and Rankine cycle engines air pollution control
Hydrogen generation through static-feed water electrolysis 08 p0177 A75-44776	GAS TORBINES Solar farms utilizing low-pressure closed-cycle
Hydrogen generation by solid-polymer electrolyte water electrolysis	gas turbines 05 p0003 A75-10514
O8 p0177 A75-44777 Evaluation of multi-step thermochemical processes for the production of hydrogen from water	Small coal burning gas turbine for modular integrated utility systems 05 p0006 A75-10546
08 p0177 A75-44778	Gas turbine engines - A state-of-the-ârt review 05 p0009 A75-10840

Conlegge combunities in injurial gas Anghines	GEOBLECTRICITY
Coal-gas combustion in industrial gas turbines	Three-dimensional subsurface delineation via a
[AINA PAPER 74-1114] 05 p0010 A75-11286	novel method for determining the subsurface
Thermodynamic analysis of a solar energy system with a closed-cycle gas-turbine converter	electrical profile
06 p0049 A75-23402	[UCRL-51685] 07 p0127 N75-21781
Thermodynamics of multistage air-cooled gas turbine	GEOLOGICAL SURVEYS
06 p0050 A75-23817	The geology and geophysics of geothernal energy
Low-power turbines using organic vapor	06 p0061 A75-28438
07 p0110 A75-30892	Purther development of scientific research in the
Design study for a coal-fueled closed cycle gas	field of geology and of the survey and
turbine system for MIUS applications Modular	exploration of petroleum and gas
Integrated Utility System	[JPRS-63414] 05 p0027 H75-11410
08 p0 187 A75-45948	Heat flow and geothermal potential of the East
Solar-heated-air turbine generating systems	Mesa KGRA, Imperial Valley, California
08 p0190 A75-45981	06 p0099 N75-20838
Effect of gas turbine efficiency and fuel cost on	The Lawrence Berkeley Laboratory quothermal
cost of producing electric power	program in northern Nevada
[PB-234159/2] 05 p0034 H75-13397	06 p0100 N75-20845
Pressurised fluidized bed combustion	Evaluation of the suitability of Skylab data for
combustion physics, gas turbines	the purpose of petroleum exploration
[PB-236498/2] 06 p0065 N75-15769	[E75-10257] 07 p0147 N75-25237
Application of superconducting electrical	GROLOGY
machinery to the propulsion systems of	Stratigraphy, sedimentology and oil and gas
commercial vessels gas turbines	geology of the Lower Cretaceous in central Alberta
[COM-75-10137] 07 p0147 N75-25200	07 p0137 N75-22961
GAS-LIQUID INTERACTIONS	GROPHYSICS
Investigation of bubble formation in arteries of	Geothermics with special reference to application
gas-controlled heat pipes	Book
[AIAA PAPER 75-655] 07 p0114 A75-32913	05 p0011 A75-11576
GASBOUS FISSION REACTORS	The geology and geophysics of geothermal energy
Physics and potentials of fissioning plasmas for	. 06 p0061 A75-28438
space power and propulsion	GEOTHERNAL BUERGY CONVERSION
[IAF PAPER 74-087] 05 p0015 A75-13719	Environmental impact of a geothermal power plant
Gaseous fuel nuclear reactor research	06 p0049 A75-23291
08 p0168 A75-40177	Solar energy in earth processes review
GASIFICATION	06 p0061 A75-28437
Gasification of solid wastes in fixed beds	The geology and geophysics of geothermal energy
[ASME PAPER 74-WA/PWR-10] 05 p0018 A75-16882	06 p0061 A75-28438
Application of thermodynamic and material- and	Ocean thermal energy conversion 07 p0111 A75-31274
energy-balance calculations to gasification	Advanced heat transfer methods for geothermal
processes 06 p0055 A75-24785	power applications
Chemically active fluid-bed process for sulphur	08 p0185 A75-45934
removal during gasification of heavy fuel oil,	Direct contact heat exchangers in geothermal power
phase 2	production
[PB-240632/0] 07 p0 159 N75-27556	[ASME PAPER 75-HT-52] 08 p0196 A75-47525
Producing SNG by hydrogasifying in situ crude	The role of heat transfer in solving geothermal
shale oil	energy problems to accelerate its effective
[PB-240841/7] 08 p0201 N75-28548	application
GASOLINE	[ASRE PAPER 75-HT-57] 08 p0196 A75-47527
Peasibility demonstration of a road vehicle fueled	Geothermal power station using heat pipes
with hydrogen-enriched gasoline	[AD-785948] 05 p0037 N75-14275
05 p0008 A75-10574	Methodical approach to temperature and pressure
Engine performance with gasoline and hydrogen - A	measurements for in situ energy-recovery processes
comparative study	[UCID-16631] 06 p0097 N75-20693
08 p0177 A75-44787	Proceedings of the Conference on Research for the Development of Geothermal Energy Resources
Limit lead in gasoline 05 p0023 N75-10259	[NASA-CR-142556] 06 p0098 N75-20831
[GPO-29-660] 05 p0023 N75-10259 Impact of motor gasoline lead additive regulations	The National Geothermal Energy Research Program
on petroleum refineries and energy resources,	06 p0098 N75-20832
1974-1980, phase 1	The NSP/RANN PY 1975 program for geothermal
[PB-234185/7] 05 p0025 N75-10601	resources research and technology
The prospects for gasoline availability: 1974	06 p0098 N75-20833
[GPO-34-969] 05 p0039 N75-15155	Overview of Reclamation's quothermal program in
A study of the demand for gasoline	Imperial Valley, California
[PB-235254/0] 06 p0070 N75-16105	, 06 p0098 N75-20835
Effects of changing the proportions of automotive	Progress of the LASL dry hot rock geothermal
distillate and gasoline produced by petroleum	energy project
refining	06 p0100 N75-20848
[PB-236900/7] 06 p0085 N75-18443	Rock melting technology and geothermal drilling
Hydrocarbon power fuel from the gasoline boiling	06 p0101 N75-20851
range antiknock additives	Geothermal reservoir simulation
[NASA-TT-F-16399] 07 p0147 N75-24957	06 p0101 N75-20852
A short handbook on fuels and lubricants	Investment and operating costs of binary cycle
[AD-A004358] 07 p0158 N75-27170 GEODETIC SURVEYS	geothermal power plants 06 p0101 N75-20855
	Helical rotary screw expander power system
Hawaii geothermal project 06 p0099 N75-20840	06 p0101 N75-20856
Leasing of federal geothermal resources	Electric power generation using geothermal brine
06 p0099 N75-20841	resources for a proof of concept facility
Measuring ground movement in geothermal areas of	06 p0101 N75-20857
Imperial Valley, California	Phase 0 study for a geothermal superheated water
06 p0099 N75-20842	proof of concept facility
Institutional and environmental problems in	06 p0102 N75-20858
geothermal resource development	Combining total energy and energy industrial
06 p0100 N75-20843	center concepts to increase utilization
	efficiency of geothermal energy
	06 p0102 N75-20860

GROTHERNAL RESOURCES SUBJECT INDEX

Heat flow and geothermal potential of the East Hesa KGRA, Imperial Valley, California A city invests in its future 06 p0102 N75-20862 06 p0099 N75-20838 Geothermal steam condensate reinjection 06 p0102 N75-20863 Utility company views of geothermal development A brief description of geological and geophysical exploration of the Marysville geothermal area 06 p0099 N75-20839 06 p0102 N75-20864 Peasibility study of a 100 megawatt open cycle ocean thermal difference power plant [PB-238571/4] 07 p0130 N75-21821 Hawaii geothermal project 06 p0099 H75-20840 Leasing of federal geothermal resources Technological feasibility of alternative energy 06 p0099 N75-20841 sources --- a discussion of coal gasification, geothermal energy, and shale oil Measuring ground movement in geothermal areas of Imperial Valley, California 06 p0099 875-20842 08 p0199 H75-28522 FAD-A0055491 Institutional and environmental problems in GEOTHERBAL RESOURCES The hot deeps of the Red Sea as a potential heat geothermal resource development source for thermoelectric power generation 05 p0004 A75-10516 06 p0100 N75-20843 Imperial Valley's proposal to develop a guide for geothermal development within its county Steady state free convection in an unconfined O6 p0100 N75-20844
The Lawrence Berkeley Laboratory geothermal program in morthern Nevada geothermal reservoir 05 p0009 A75-11069 Geothermics with special reference to application 06 p0100 N75-20845 -- Book 05 p0011 A75-11576 The total flow concept for geothermal energy A comparison of methods for electric power generation from geothermal hot water deposits [ASME PAPER 74-WA/ENER-10] 05 p0016 A75-16841 06 p0100 N75-20846 San Diego Gas and Electric Company Imperial Valley Other primary energy resources --- geothermal, tidal, wind, waterwave and glacier energy geothermal activities 06 p0100 N75-20847 utilization Progress of the LASL dry hot rock geothermal 06 p0050 A75-23512 energy project Theory of heat extraction from fractured hot dry 06 p0100 #75-20848 The Marysville, Montana Geothermal Project 06 p0100 B75-20849 rock 06 p0057 A75-26544 Current worldwide utilization and ultimate Preliminary results of geothermal desalting operations at the Bast Mesa test site Imperial potential of geothermal energy systems 06 p0060 a75-27787
New technology challenges in exploration,
exploitation and environmental impact of Valley, California 06 p0101 H75-20850 Rock melting technology and geothernal drilling 06 p0101 H75-20851 geothermal systems 06 p0060 A75-27788 Geothermal reservoir simulation Salt domes, pit craters, and dry steam fields -Heat pipe applications 06 p0101 N75-20852 Geothermal reservoir engineering research 06 p0060 A75-27789 06 p0101 N75-20853 Geothermal energy --- technology assessment Geothermal down well pumping system 06 p0060 A75-27826 06 p0101 N75-20854 The geology and geophysics of geothermal energy 06 p0061 A75-28438 Investment and operating costs of binary cycle geothermal power plants Helium survey, a possible technique for locating Helical rotary screw expander power system
06 p0101 N75-20856 qeothermal reservoirs 07 p0118 A75-35438 Electric power generation using geothermal brine The potential of natural energy sources 08 p0165 A75-38865 resources for a proof of concept facility Computation of water temperature at the mouth of a 06 p0101 N75-20857 Phase 0 study for a geothermal superheated water proof of concept facility geothermal well 08 p0170 A75-41547 Geothermal energy as a resource in a hydrogen 06 p0102 N75-20858 The hydrogen sulfide emissions abatement program at the Geysers Geothermal Power Plant energy economy 08 p0174 A75-44755 Idaho geothermal R and D project report for period 06 p0102 N75-20859 Combining total energy and energy industrial center concepts to increase utilization efficiency of geothermal energy 16 December 1973 - 15 March 1974 06 p0076 N75-16985 [ARCR-11551 Recommended research program in geothermal chemistry
[WASH-1344] 06 p0077 H75-16997 06 p0102 N75-20860 Cooperative efforts by industry and government to Materials screening program for the LLL geothermal project develop geothermal resources 06 p0082 N75-17815 06 p0102 N75-20861 Prospect for geothermal power [LA-UB-74-1111] A city invests in its future 06 p0086 N75-18723 06 p0102 N75-20862 Proceedings of the Conference on Research for the Geothermal steam condensate reinjection Development of Geothermal Energy Resources 06 p0102 B75-20863 Utility company views of geothermal development [NASA-CR-142556] 06 p0098 N75-20831 The National Geothermal Energy Research Program
06 p0098 N75-20832
The MSF/RANN FY 1975 program for geothermal
resources research and technology
06 p0098 N75-20833 06 p0102 N75-20864 Stimulation and reservoir engineering of geothermal resources [PB-239718/0] 07 p0153 N75-26485 The detection of geothermal areas from Skylab Geothermal research and development program of the thermal data US Atomic Energy Commission [NASA-CR-143133] 07 p0158 N75-27540 06 p0098 N75-20834 Snow and ice removal from pavements using stored Overview of Reclamation's geothermal program in Imperial Valley, California earth energy --- via heat pipes [PB-240623/9] 07 p0162 N75-27581 06 p0098 N75-20835 Extracting minerals from geothermal brines: A Geophysical, geochemical, and geological investigations of the Dunes geothermal system, Imperial Valley, California [IGPP-UCB-74-31] 06 p0098 N75-2 literature study [PB-240681/7] 08 p0202 N75-29545 GRRHAHY 06 p0098 N75-20836 Energy and the environment in Baden-Wuerttenberg The Colorado School of Bines Nevada geothermal study
06 p0099 N75-20837 [KPK-1966-UP] 05 p0030 N75-12439

SUBJECT INDEX HEAT EXCHANGERS

Mission and organization of the DFVLR: Two years	GULF STREAM
of integrated society of German aeronautical and	Gulf stream based ocean thermal power plants
space flight research [NASA-TT-F-16086] 05 p0035 N75-13882 GLACIERS	Technical and economic feasibility of the ocean thermal differences process as a solar-driven
Other primary energy resources geothermal, tidal, wind, waterwave and glacier energy utilization	energy process [PB-236422/2] - 06 p0077 N75-17003
06 p0050 A75-23512	^V Н
GLASS Glass solar heat collector development	HABITATS
[AIAA PAPER 75-740] 07 p0115 A75-33758 Glass recycling and reuse [PB-239674/5] 08 p0200 N75-28536	Prospects for utilization of underwater houses and chambers in development of marine oil deposits 05 p0029 N75-11606
Energy consumption: Paper,	HAWAII
stone/clay/glass/concrete, and food industries [PB-241926/5] 08 p0211 N75-32607 GLASS FIBERS	An evaluation of oceanographic and socioeconomic aspects of a nearshore ocean thermal energy conversion pilot plant in subtropical Hawaiian
An investigation of heat-pipe wick characteristics 05 p0012 A75-12914	<pre>waters [PB-242167/5]</pre>
Development of a process for producing an ashless low sulfur fuel from coal. Volume 4. Product	HEART FUNCTION Continued development of energy transmission and
studies. Part 2. Annotated bibliography on	conversion systems applied to operation of
mineral fiber production from coal minerals [PB-237763/8] 06 p0095 N75-19839	mechanical hearts [PB-236181/4] 05 p0037 N75-14278
GLOBAL AIR POLLUTION Interaction between the fuel-energy complex and	HEAT BALANCE Application of thermodynamic and material- and
the environment 07 p0110 A75-29800	energy-balance calculations to gasification processes
GOVERNMENT PROCUREMENT	06 p0055 A75-24785
Leasing of federal geothermal resources 06 p0099 N75-20841	Changes in the global energy balance atmospheric composition and the effect of air
Special Energy Research and Development Appropriation Act, 1975	pollution [PB-238075/6] 06 p0106 N75-20936
[PUB-LAW-93-322] 08 p0209 N75-31957	HEAT EXCHANGERS
GOVERHMENT/INDUSTRY RELATIONS Energy crisis - Fact or fiction	Hot side heat exchanger for an ocean thermal difference power plant
05 p0011 A75-12115 Energy systems - Modeling and policy analysis	05 p0004 A75-10527 Closed loop chemical systems for energy
06 p0055 A75-24750 The hydrogen economy and the law	transmission, conversion and storage 05 p0005 A75-10538
08 p0180 A75-44813 Proceedings of the first 1974 Technology Transfer	Thermal energy storage devices suitable for solar heating
Conference [NASA-CR-142119] 06 p0078 N75-17188	05 p0007 A75-10553 A hot liquid energy storage system utilizing
The Environmental protection agency industrial technology transfer program	natural circulation [ASME PAPER 74-WA/HT-16] 05 p0017 A75-16862
06 p0078 H75-17193 Transfer of space technology to industry	Progress in heat pipe and porous heat exchanger technology
O6 p0078 H75-17195 Cooperative efforts by industry and government to	06 p0045 A75-20686 Ocean thermal energy conversion system evaluation [AINA PAPER 75-616] 06 p0064 A75-29115
develop geothermal resources 06 p0102 N75-20861	Recuperator development trends for future high
Institutional and legal constraints to cooperative energy research and development	temperature gas turbines heat exchanger design [ASHE PAPER 75-GT-50] 07 p0116 A75-34607
[PB-240929/0] 08 p0200 N75-28530 A systems approach to innovative solutions to the	Advanced heat transfer methods for geothermal power applications
energy problem [PB-242189/9] 08 p0213 N75-33505	08 p0185 A75-45934 Thermionic topping of electric power plants
GOVERNMENTS	08 p0189 A75-45973
A review of the Project Independence report submitted to Office of Energy Research and Development, Mational Science Foundation, 10	Evaluation of solar-assisted Rankine cycle concept for the cooling of buildings 08 p0194 A75-46040
January 1975	High temperature heat pipes for energy conservation
[PB-238791/8] 07 p0131 N75-21823 GREENHOUSE EFFECT	thermal waste recovery system 08 p0194 A75-46042
Method for calculating solar radiation for semicylindrical collectors	Direct contact heat exchangers in geothermal power production
06 p0057 A75-26718 Solar energy - The physics of the greenhouse effect	[ASHE PAPER 75-HT-52] 08 p0196 A75-47525 The role of heat transfer in solving geothermal
07 p0 120 A75-36306	energy problems to accelerate its effective
Trapezoidal grooves as moderately concentrating solar energy collectors	application [ASME PAPER 75-HT-57] 08 p0196 A75-47527 Solar sea power
[AIAA PAPER 75-738] 07 p0113 A75-32860 GROUND STATIONS	[PB-235469/4] 05 p0038 N75-14284 Evaluation of a fossil fuel fired ceramic
Development of very low cost solar cells for	regenerative heat exchanger
terrestrial power generation 06 p0052 A75-24226 GROUND SUPPORT EQUIPMENT	[PB-236346/3] 06 p0092 N75-19599 Variations in heat exchanger design for ocean thermal difference power plants
Multi-hundred watt radioisotope thermoelectric	[PB-238572/2] 07 p0143 N75-24134
generator program, part 1 ground support equipment, and safety management	Study of fuel cell powerplant with heat recovery [NASA-CR-141854] 07 p0148 N75-25296
[GESP-7107-PT-1] 06 p0092 N75-19354 Bulti-hundred watt radioisotope thermoelectric	Technical and economic feasibility of the ocean thermal differences process as a solar-driven
generator program, part 2 ground support equipment	energy process
[GESP-7107-PT-2] 06 p0092 N75-19355	[PB-239374/2] 07 p0150 N75-25317 Heat exchangers for sea solar power plants
•	[PB-239369/2] 07 p0150 N75-25319

HBAT PLUX	High temperature heat pipes for energy conservation
Solar radiation heat transfer to high temperature	thermal waste recovery system
heat carriers [ASHE PAPER 74-WA/HT-14] 05 p0017 A75-16861	08 p0194 A75-46042 Heat pipe applications development in Europe
Controlling the response of thermoelements that generate electricity	08 p0195 A75-46043 Laser application of heat pipe technology in
07 p0121 A75-37154 Waste heat disposal from nuclear power plants	energy related programs 08 p0195 A75-46044
[COM-75-10407/5] 07 p0 158 H75-27324	Application of heat pipes to solar collectors 08 p0195 A75-46045
Solar tower thermo-chemical energy cycles 08 p0171 A75-42277	Heat pipe manufacturing study [NASA-CR-139140] 05 p0023 N75-10347
Solar energy program plan for heating and cooling buildings	An intercell heat pipe for fuel cell and battery cooling
[WASH-1337-5-DRAFT] 06 p0077 875-16993 HEAT MEASUREMENT	[AD-782888] 05 p0027 N75-11226
Method of calibrating a solar power plant with a paraboloidal mirror	Heat Pipe Symposium/Workshop [PB-236008/9] 05 p0035 N75-14094 Geothermal power station using heat pipes
. 07 p0116 A75-34315	[AD-785948] 05 p0037 h75-14275
Investigation of a solar concentrator with hexahedral glass facets	Conceptual design of a heat pipe methanator conversion of synthesis coal gas to methane
08 p0180 A75-45061	[LA-5596] 06 p0074 N75-16774 Solar collector thermal power system. Volume 2:
Nuclear propulsion technology transfer to energy systems	Development, fabrication, and testing of fifteen
[AIAA PAPER 74-1072] 05 p0001 A75-10264	foot heat pipes [AD-A000941] 06 p0091 N75-19340
Operational testing of the high performance thermoelectric generator /HPG-02/	Ames Heat Pipe Experiment (AHPE) experiment description document performance testing in
05 p0003 A75-10505 A 10% efficient economic RTG design	a vacuum environment [NASA-CR-114413] 07 p0138 N75-23880
radioisotope thermoelectric generator 05 p0003 A75-10506	<pre>BRTS-C (Landsat 3) cryogenic heat pipe experiment definition</pre>
A design parameter for assessing wicking	[NASA-CR-143797] 07 p0138 N75-23882
capabilities of heat pipes [AIAA PAPER 74-1266] 05 p0010 A75-11107	Electric power generation utilizing a heat pipe turbine-generator
Controlled heat pipes 05 p0012 A75-12912	O7 p0139 H75-24096 Solar electric propulsion system thermal analysis
An investigation of heat-pipe wick characteristics 05 p0012 A75-12914	including heat pipes and multilayer insulation [NASA-CR-120770] 07 p0147 N75-24842
The heat pipe - Its development, and its aerospace	Deployable heat pipe radiator
applications 05 p0015 A75-15054	[NASA-CR-143863] 07 p0147 H75-25088 Snow and ice removal from pavements using stored
Performance of a laser mirror heat pipe [ASHE PAPER 74-WA/HT-61] 05 p0018 A75-16869	earth energy via heat pipes [PB-240623/9] 07 p0162 N75-27581
Progress in heat pipe and porous heat exchanger technology	HEAT PUMPS Solar augmented home heating heat pump system
06 p0045 A75-20686	05 p0004 A75-10524 A heat pump powered by natural thermal gradients
Thermal performance characteristics of heat pipes 06 p0046 A75-21465 Material Considerations involved in solar energy	05 p0006 A75-10550 Solar thermal absorption heat pump breakeven
conversion	coefficient of performance
06 p0047 A75-22522 Salt domes, pit craters, and dry steam fields -	[ASME PAPER 74-WA/EMER-2] 05 p0015 A75-16834 Performance of heat pumps using cold-side energy
Heat pipe applications 06 p0060 A75-27789	storage and unconventional heat sources [ASME PAPER 74-WA/HT-17] 05 p0017 A75-16863
Designing heat pipe heat sinks [ATAA PAPER 75-724] 07 p0113 A75-32868	Effectiveness of using semiconductor heat pumps under the conditions of the Turkmen SSR
The International Heat Pipe Experiment ten	05 p0020 A75-17083
experiments in zero gravity [AIAA PAPER 75-726] 07 p0113 A75-32870	Convergence and speed of calculations for thermoelectric heat pump
Cryogenic heat pipe experiment - Plight performance onboard a sounding rocket	05 p0020 A75-17084 Solar one - The Delaware solar house and results
[AIAA PAPER 75-729] 07 p0113 A75-32872 Investigation of bubble formation in arteries of	obtained during the first year of operation 06 p0054 175-24254
gas-controlled heat pipes	Ocean thermal energy conversion system evaluation
[AIAA PAPER 75-655] 07 p0114 A75-32913 Transverse header heat pipe	[AIAA PAPER 75-616] 06 p0064 A75-29115 Solar heating and cooling of buildings using heat
[AIAA PAPER 75-656] 07 p0114 A75-32914 Arterial gas occlusions in operating heat pipes	pumps /Brief survey/ 07 p0116 A75-34321
[AIAA PAPER 75-657] 07 p0114 A75-32915	The economics of coal-based synthetic gas
A flexible cryogenic heat pipe [AIAA PAPER 75-658] 07 p0114 A75-32916	08 p0168 A75-39925 Use of solar heat pumps for heating and air
Beasurements of the performance of an electrohydrodynamic heat pipe	conditioning - A brief survey 08 p0170 A75-41534
[AINA PAPER 75-659] 07 p0114 A75-32917 Compatibility and reliability of heat pipe materials	Optimum properties of working fluids for solar powered heat pumps
[AIAA PAPER 75-660] 07 p0114 A75-32918 Capillary flow through heat-pipé wicks	08 p0185 A75-45937 Development of a 540-sq-ft prototype faceted fixed
[AIAA PAPEE 75-661] 07 p0114 A75-32919 Heat pipe thermal control set point shift	mirror solar concentrator 08 p0186 A75-45940
Investigations of the factors affecting the	The annual cycle energy system winter ice for summer air conditioning
performance of a rotating heat pipe	08 p0187 ≥ 75-45947
07 p0120 A75-36357 Heat pipe thermal recovery units for process exhaust energy utilization	Hydrogen sponge heat pump carnot cycle system on lanthanum pentanickel 08 p0194 A75-46035
08 p0194 A75-46041	Heat pumps in large buildings a refrigerating unit for heating and cooling
	[OA-TRANS-939] 06 p0078 N75-17184
•	

HEAT RADIATORS
Cylindrical erbium oxide radiator structures for thermophotovoltaic generators
[AD-A001525] 07 p0129 H75-21806
Deployable heat pipe radiator [NASA-CR-143863] 07 p0147 N75-25088
HBAT SINKS
Designing heat pipe heat sinks [AIAA PAPER 75-724] 07 p0113 A75-32868
Study of active cocling for supersonic transports
[NASA-CR-132573] 06 p0079 N75-17336 HBAT SOURCES
A modular heat source for curium-244 and
plutonium-238 05 p0002 175-10497
The hot deeps of the Red Sea as a potential heat
source for thermoelectric power generation
05 p0004 A75-10516 Potential of Rankine engines to produce power from
waste heat streams
05 p0006 A75-10547 Geothermics with special reference to application
Book
05 p0011 A75-11576 Approximate analysis of the steady temperature
field of a parallelepiped with a local energy
source 07 p0112 A75-32212
Survey on power fluid for thermal power from low
temperature and small temperature difference heat source
07 p0119 A75-36173
Gaseous fuel nuclear reactor research 08 p0168 A75-40177
Consideration of ultra-high temperature nuclear
heat sources for MHD conversion systems
[AIAA PAPER 75-1258] 08 p0182 A75-45659 Nuclear heat source for cryogenic refrigerators in
space Pu-238 battery design
08 p0191 A75-46006 Efficient thermo-mechanical generation of
electricity from the heat of radioisotopes
08 p0192 A75-46013 A 100 watt Stirling electric generator for solar
or solid fuel heat sources
08 p0192 A75-46014 Advanced heat source concepts module design
for space electric power generation
[MLM-2134] 05 p0024 N75-10591
Preliminary results of geothermal desalting operations at the East Mesa test site Imperial
Valley, California
06 p0101 N75-20850 Geothermal down well pumping system
06 p0101 H75-20854
Geothermal steam condensate reinjection 06 p0102 N75-20863
Strontium fluoride research in heat source and
compatibility tests waste utilization [BNWL-1845-2] 07 p0152 N75-25695
Strontium heat source development programs
waste utilization [BNWL-1845-4] 07 p0152 N75-25696
HEAT STORAGE
Performance of heat pumps using cold-side energy storage and unconventional heat sources
[ASHE PAPER 74-WA/HT-17] 05 p0017 A75-16863
Solar energy storage within the absorption cycle [ASEE PAPER 74-WA/HT-18] 05 p0017 A75-16864
Sizing of solar energy storage systems using local
weather records [ASME PAPER 74-WA/HT-20] 05 p0017 A75-16865
Dynamic response of solar heat storage systems
[ASME PAPER 74-WA/HT-22] 05 p0018 A75-16867 Solar ponds for space heating energy storage
by convectionless shallow water
07 p0109 A75-29471
Design charts for hot liquid energy storage systems utilizing forced circulation
[AIAA PAPER 75-742] 07 p0113 A75-32851
Storage of summertime waste heat from electric generating plants for use in wintertime
[AIAA PAPER 75-743] 07 p0113 A75-32852
Underground storage of heat in solar heating systems 07 p0115 A75-33975
Year round performance studies on a built-in
storage type sclar water heater at Jodhpur, India 08 p0167 A75-39406

```
Laboratory based activities in solar energy at the Bational Bureau of Standards
                                                08 p0168 A75-40299
    Solar One, two years experience --- prototype home thermal and electrical system
                                                08 p0184 A75-45922
    The nation's first private industrial solar heating system - General Electric's Valley Porge
                                                08 p0184 A75-45925
    Thermal energy storage --- solar storage materials
       performance
                                                08 p0185 A75-45932
    The selection and use of energy storage for solar thermal electric application
                                                08 p0189 A75-45980
    Sensible heat storage in liquids --- solar energy
       applications
                                                06 p0074 N75-16773
       FSLL-73-02631
    Latent heat and sensible heat storage for solar
      heating systems [PB-236190/5]
                                                06 p0077 N75-17005
    Solar thermal conversion program. Central
      receiver POCE project, subsystem specifications
       studies
      [PB-238002/0]
    Conservation and better utilization of electric power by means of thermal energy storage and solar heating. Solar collector performance
       stadies
      [PB-239355/1]
                                                07 p0150 N75-25320
    Conservation and better utilization of electric
      power by means of thermal energy storage and
       solar heating
       [PB-239395/7]
                                                07 p0157 N75-26521
    Conservation and better utilization of electric
      power by means of thermal energy storage and solar heating, executive summary
                                                07 p0157 N75-26522
       [PB-239394/0]
    Solar pond [NASA-CASE-HPO-13581-1]
    Pluid manifold design for a solar energy storage
      tank
[WASA-TH-X-64940]
HEAT TRANSPER
                                                07 p0160 N75-27562
    Controlled heat pipes
   05 p0012 A75-12912
The heat pipe - Its development, and its aerospace applications
                                                05 p0015 A75-15054
    A generalization of the Carnot theorem - The
       theorem of useful power
                                               06 p0057 A75-26448
   Theory of heat extraction from fractured hot dry
      rock
                                               06 p0057 A75-26544
    Statistical relation between heat transfer from a
       closed area and meteorological parameters during
   the use of a solar refrigerating plant
08 p0169 A75-41072
Application of heat pipes to solar collectors
                                               08 p0195 A75-46045
   Heat Pipe Symposium/Workshop
[PB-236008/9] 05 p0035
Solar thermal conversion program. Central
                                               05 p0035 N75-14094
      receiver POCE project, subsystem specifications
      studies
      [PB-238002/0]
                                               06 p0087 N75-18733
   Heat transfer design and proof tests of a radioisotope thermoelectric generator
       [AD-A002218]
                                               06 p0092 N75-19608
    Electrochemical power sources --- heat and mass
      transfer in porous media [AD-A001610]
Study of fuel cell powerplant with heat recovery [NASA-CR-141854] 07 p0148 N75-25296 HEAT TRANSPER CORPFICIENTS
   Solar radiation heat transfer to high temperature
      heat carriers
   [ASME PAPER 74-WA/HT-14] 05 p0017 A75
Design of a tubular heat collector for a solar
power installation with a parabolocylindric
                                               05 p0017 A75-16861
      concentrator
                                               05 p0020 A75-17069
   Convergence and speed of calculations for
      thermoelectric heat pump
```

05 p0020 A75-17084

BEAT TRADSMISSION SUBJECT INDEX

•			
Effect of heat transfer from the late of semiconductor thermocouples on t characteristics of a thermoelectric	he energy	BELICOPTEE PERFORMANCE Documenting helicopter operations standpoint	from an energy
05	p0021 A75-18798	[NASA-CR-132578] BELICOPTERS	06 p0084 ¥75-18220
Determination of scme thermophysical characteristics of a solar-type peb 07		Documenting helicopter operations standpoint	from an energy
Investigations of the factors affecti performance of a rotating heat pipe	ng the		06 p0084 N75-18220
	p0120 A75-36357	Helium survey, a possible technique geothermal reservoirs	e for locating
pebble-type solar heat accumulators		HELIUM ISOTOPES	07 p0118 175-35438
Thermal performance analysis of the s reflector/tracking absorber /SRTA/		Hydrogen distribution profiling of storage vessel surfaces	
concentrator [ASME PAPER 75-HT-FFF] 08	p0173 A75-43881	HIGH STRENGTH STEELS	08 p0179 A75-44805
Energy exchange at the surface of the North Atlantic Ocean		Metals and composites in superfly storage systems	heel energy
	p0146 N75-24285		06 p0047 A75-22523
HEAT TRANSMISSION Closed loop chemical systems for ener		HIGH TEMPERATURE Low to high temperature energy com	version system
transmission, conversion and storag 05	e p0005 A75-10538	using ammonia [NASA-CASE-NPO-13510-1]	06 p0074 N75-16972
Process environment effects on heat p fluid-bed gasification of coal		HIGH TEMPERATURE AIR High temperature air preheaters fo	_
[LA-UR-74-984] 05	p0029 N75-12252	energy conversion systems [AICHE PAPER 16]	08 p0196 A75-47512
	p0035 N75-14094	HIGH TEMPERATURE PLUIDS	-
BEATING Residential energy consumption and sm	all scale	Design charts for hot liquid energ systems utilizing forced circula	
options of energy systems for space	heating		07 p0113 A75-32851
HEATING EQUIPMENT	-	Component design considerations for	
Study of channel-type systems for solution radiative heat transport	ar-energy	<pre>HTGR power plant High-Temper Reactor</pre>	ature Gas-cooled
05	p0010 A75-11196		07 p0116 A75-34620
Dynamic simulation for performance an solar heated and cooled buildings	-	Hydrogen production with a high-te gas→cooled reactor /HTGR/	-
[ASME PAPER 74-WA/SOL-8] 05: A study of channel systems for radiat	p0019 175-16891	HIGH TEMPERATURE NUCLEAR REACTORS	08 p0175 A75-44759
solar-heat transfer		Thermolysis of water for the gener	
Time factors in slowing down the rate demand for primary energy in the Un:	ited States	Nuclear water splitting and high t reactors	_
Cooling by solar heat heating and	p0059 A75-27780 cooling	High-temperature nuclear reactors	08 p0175 A75-44757 as an energy
system for buildings [AIAA PAPER 75-609] 06	p0062 A75-28590	source for hydrogen production	08 p0175 A75-44758
Heating buildings with solar energy	p0117 A75-34933	Consideration of ultra-high temper heat sources for MHD conversion	
Study of the influence of container de	esign and the	[AIAA PAPER 75-1258]	08 p0182 A75-45659
thermal inertness of solar water he their efficiency	p0119 A75-36018	Application of nuclear rocket tech weight nuclear propulsion and co process heat systems	
Summary of NASA-Lewis Research Center heating and cooling and wind energy	solar		08 p0182 A75-45661
07]	p0123 A75-37240	result by using a high temperatu	re reactor for
Investigation of the effect of boiler finite thermal response of solar wa	ter heaters		05 p0029 N75-11470
on efficiency 08 1	p0170 A75-41541	BIGH VOLTAGES Development and performance of a m	iniature.
Solar heat pump comfort heating system		high-voltage thermal battery	05 p0007 A75-10559
Design and operation of a solar-power	ed	HONRYCOMB STRUCTURES	_
turbocompressor air-conditioning and system		The Shell natural gas airship, and activities by Aerospace Developm	ents
A computer program to determine the o		HYBRID PROPULSION	07 p0121 A75-37008
configuration of solar assisted buil and cooling systems based upon life	-cycle cost	Nickel-zinc batteries for hybrid v [PB-239710/7] HYDRAULIC EQUIPMENT	ehicle operation 07 p0156 1875-26514
Wind and solar thermal combinations for heating		Ocean thermal gradient hydraulic p	ower plant 07 p0124 A75-37849
		BYDRAZINE ENGINES · Hydrazine gas generation for press	_
energy conversion systems [AICHE PAPER 16] 08 p	p0196 A75-47512	systems	08 p0166 A75-39134
BBAVY WATER	1	BYDRAZINES	-
An MHD energy storage system comprising heavy-water producing electrolysis p H2/02/CSOH MHD generator/steam turbi	plant and a	The introduction of the principles energy supply in future technical	
combination to provide a means of tr nuclear reactor energy from the base	ransferring	Hydrazine as a fuel for a fuel cel	
into the intermediate-load and peaki	ing regimes I	HYDRIDES	p
08 1	p0179 A75-44800	Alternative fuels for aviation	07 p0121 A75-36719

SUBJECT INDEX HYDROGEN PURLS

Iron titanium hydride as a source of hydrogen fuel	Metal hydrides as hydrogen storage media
for stationary and automotive applications	[BNL-18887] 05 p0030 N75-12440
[BNL-18651] 05 p0030 N75-12441 HYDROCARBON COMBUSTION	Iron titanium hydride as a source of hydrogen fuel
Combustion R&D - Key to our energy future	for stationary and automotive applications [BNL-18651] 05 p0030 N75-12441
pollution reduction using hydrocarbon fuels	Proceedings of the Workshop on Bio-Solar Conversion
05 p0009 A75-10596 HYDROCARBON FUEL PRODUCTION	[PB-236142/6] 06 p0069 N75-16096 Bnergy storage for utilities via hydrogen systems
Parametric study for a pyrolytic system for	[BNL-19266] 06 p0086 N75-18725
production of fuels from agricultural and	Hydrogen storage and production in utility systems
forestry wastes 08 p0187 A75-45950	[BNL-18920] 06 p0097 N75-20580 Hydrogen economy: A utility perspective
HYDROCARBON PURLS	[BNL-19267] 06 p0103 N75-20870
MHD energy conversion systems [AIAA PAPER 74-1071] 05 p0001 A75-10263	Pundamental aspects of systems for the
[AIAA PAPER 74-1071] 05 p0001 A75-10263 Urban waste energy resources	thermochemical production of hydrogen from water [LA-UR-74-1459] 07 p0127 N75-21391
[AIAA PAPER 75-632] 06 p0062 A75-28598	Hydrogen as a fuel
Alternative fuels for aviation 07 p0121 A75-36719	[AD-A006984] 07 p0132 N75-22477 On the application of hydrogen as a fuel for
Exploration for fossil and nuclear fuels from	automotive vehicles
orbital altitudes results of ERTS program	[ESRO-TT-132] 07 p0135 N75-22910
for oil exploration [NASA-TM-X-70781] 05 p0027 N75-11413	Hydrogen production from coal [NASA-CR-142816] 07 p0141 N75-24113
Evaluation of coal-gassification technology. Part	HYDROGEN PUELS
2: Low and intermediate BTU fuel gases [PB-234042/0] 05 p0036 N75-14273	Oxides of mitrogen control techniques for appliance conversion to hydrogen fuel
Alternative fuels for aviation	05 p0006 A75-10541
06 p0075 N75-16980	The use of hydrogen in commercial aircraft - An assessment
Technology for the conversion of solar energy to fuel gas	05 p0006 A75-10542
[PB-238103/6] 06 p0104 N75-20883	60 watt hydride-air fuel cell system
Electrolyte for hydrocarbon air fuel cells [AD-A007220] 07 p0136 N75-22917	05 p0008 A75-10567 Liquid hydrogen as an automotive fuel
Hydrocarbon power fuel from the gasoline boiling	06 p0048 A75-23238
range antikncck additives [NASA-TT-F-16399] 07 p0147 N75-24957	Hydrogen as fuel for internal-combustion engines 06 p0050 A75-23508
MHD power generation (Viking Series) with	Cryogenics safety in a hydrogen fuel society
hydrocarbon fuels, part 3	06 p0061 A75-27973
[AD-A004216] 07 p0155 N75-26502 The long term energy problem and aeronautics	Hydrogen production from solar energy O7 p0109 175-29477
08 p0202 n75-29012	Alternative fuels for aviation
HYDROCARBON POISONING The effect of Alaskan crude oil and selected	07 p0121 175-36719 A non-polluting powerplant for large airships
hydrocarbon compounds on embryonic development	[AIAA PAPER 75-927] 07 p0121 A75-37005
of the Pacific oyster, Crassostrea gigas	Prospects for electrolytic hydrogen for
06 p0090 N75-18764 HYDROCARBONS	chemical/industrial plants 08 p0168 A75-40179
Relationships between bidding and hydrocarbon	Puture hydrogen fueled commercial transports
production of the Pederal Outer Continental Shelf (through 1970) offshore energy sources	[SAE PAPER 750615] 08 p0169 A75-40521 Hydrogen energy fundamentals; Proceedings of the
[PB-238188/7] 07 p0127 N75-21788	Symposium-Course, Miami Beach, Pla., March 3-5,
The direct production of hydrocarbons from coal-steam systems	. 1975 08 p0171 A75-42276
[PB-239356/9] 07 p0138 N75-23740	Photoproduction of hydrogen via microbial and
Low-temperature evolution of hydrocarbon gases	biochemical processes
from coal [PB-238322/2] 07 p0139 N75-24074	08 p0171 A75-42279 Research opportunities in cryogenic
Marine pollution monitoring (petroleum):	hydrogen-energy systems
Proceedings of a Symposium and Workshop held at the National Bureau of Standards	08 p0171 A75-42280 Will hydrogen transmission replace electricity
[COM-75-50071/0] 07 p0146 N75-24183	08 p0172 A75-42281
An analysis of the fluid motion into the condenser	Aviation usage of liquid hydrogen fuel - Prospects and problems
intake of a 400 mW (e) ocean thermal difference	08 p0172 A75-42282
power plant hydrodynamics/sea water-energy	Automotive hydrogen engines, and onboard storage
policy [PB-242569/2] 08 p0213 N75-33508	methods 08 p0172 A75-42284
HYDROBLECTRIC POWER STATIONS	Economics of hydrogen energy systems
Energy storage undergound hydroelectric pumped-storage and combustion turbine facilities	08 p0172 A75-42285 A technology assessment of the hydrogen economy
05 p0013 175-12989	concept
Solar/hydroelectric combined power systems 06 p0059 A75-27786	08 p0172 A75-42286 Massive production of hydrogen by a
Gulf stream based ocean thermal power plants	thermo-electrochemical method
[AIAA PAPER 75-643] 06 p0063 A75-28603	08 p0172 A75-42531
Solar power system and component research program [PB-236159/0] 05 p0037 H75-14280	Cryogenic H2 and national energy needs 08 p0173 175-43977
HY DROGEN	The economics of liquid hydrogen supply for air
Peasibility demonstration of a road vehicle fueled with hydrogen-enriched gasoline	transportation 08 p0173 A75-43978
05 p0008 A75-10574	Hydrogen production with a high-temperature
Efficiencies of electrolytic and thermochemical hydrogen production	gas-cooled reactor /HTGE/ 08 p0175 A75-44759
06 p0045 A75-20300	Hydrogen production from decomposition of water by
Water-splitting system synthesized by photochemical and thermoelectric utilizations of	means of nuclear reactor heat 08 p0175 A75-44760
solar energy	Aqueous homogeneous reactor for hydrogen production
00 -0400 375 45000	70 -0175 175-11761

Sea thermal power as a hydrogen and methanol	Materials requirements for advanced energy
generator	systems: New fuels. Volume 3: Materials
08 p0175 A75-44763	research needs in advanced energy systems using new fuels
Thermochemical water cracking using solar heat 08 p0175 A75-44765	[AD-A004550] 07 p0158 B75-27168
The technology and economies of hydrogen	Selected topics on hydrogen fuel
production from fusion reactors	[COM-75-10619/5] 08 p0207 N75-31575
08 p0176 A75-44767	HYDROGEN OXYGEN FUEL CELLS
An economic perspective on hydrogen fuel	Blectrical power generation subsystem for Space
08 p0176 A75-44769	Shuttle Orbiter
The utilization of solar energy for hydrogen production by cell-free system of photosynthetic	. 05 p0002 A75-10477 Development of a theoretical method for predicting
organisms	the performance of hydrogen-oxygen MHD generators
- 08 p0176 A75-44770	05 p0009 a75-10578
An analysis of hydrogen production via	Multimegawatt fuel cell power system
closed-cycle schemes thermochemical	07 p0124 A75-37656
processings from water 08 p0176 A75-44771	An MHD energy storage system comprising a heavy-water producing electrolysis plant and a
Hydrogen generation through static-feed water	H2/O2/CSOH MHD generator/steam turbine
electrolysis	combination to provide a means of transferring
08 p0177 A75-44776	nuclear reactor energy from the base-load regime
Hydrogen generation by solid-polymer electrolyte	into the intermediate-load and peaking regimes
water electrolysis 08 p0177 A75-44777	08 p0179 A75-44800 Development of advanced fuel cell system, phase 2
Evaluation of multi-step thermochemical processes	[NASA-CR-134721] 06 p0067 N75-16084
for the production of hydrogen from water	Development of advanced fuel cell system, phase 3
08 p0177 A75-44778	[NASA-CR-134818] 07 p0 154 N75-26496
Considerations on iron-chloride-oxygen reactions in relation to thermochemical water-splitting	HYDROGEN SULFIDE The hydrogen sulfide emissions abatement program
08 p0177 A75-44779	at the Geysers Geothermal Power Plant
Thermochemical hydrogen production research at	06 p0102 N75-20859
Lawrence Livermore Laboratory	HYDROGEN-BASED EMERGY
08 p0177 A75-44780 Analysis of thermochemical water-splitting cycles	The generation of hydrogen by the thermal decomposition of water
energy efficiency evaluation	05 p0005 A75-10532
08 p0177 A75-44781	Nuclear energy requirements for hydrogen
Engine performance with gasoline and hydrogen - A	production from water
comparative study	05 p0005 A75-10533
08 p0177 A75-44787 Backfire control techniques for hydrogen-fueled	Hydrogen cycle peak-shaving for electric utilities 05 p0005 A75-10535
internal combustion engines	Hydrogen for the electric utilities - Long range
08 p0178 A75-44789	possibilities
Hydrogen for the subsonic transport aircraft	05 p0005 A75-10536
design and fuel requirements 08 p0178 A75-44791	Energy storage for utilities via hydrogen systems 05 p0005 A75-10537
Liquid hydrogen as a fuel for future commercial	The Hydrogen Economy - A utility perspective
aircraft	energy technology
08 p0178 A75-44792	05 p0014 A75-12998
Utilization of hydrogen as an appliance fuel 08 p0178 A75-44794	The use of hydrogen as an energy carrier 05 p0015 A75-15795
Air Force experience in the use of liquid hydrogen	Economics of a hydrogen storage peaking power plant
as an aircraft fuel	[ASHE PAPER 74-WA/PWR-6] 05 p0018 A75-16880
08 p0179 A75-44801	Energy, hydrogen, and pollution energy
Environmental impact of a suitable nuclear power reactor used to provide a process heat system to	technology 06 p0046 A75-22041
synthesize fuels	Hydrogen fuel cells and motors new energy
08 p0179 A75-44808	technology
Liquid hydrogen - Future aircraft fuel:	06 p0046 A75-22042 Liquid hydrogen liquefaction, storage,
Background, payoff, and cryogenic engineering challenge	transportation, applications
08 p0195 a75-47081	06 p0046 A75-22043
Liquid hydrogen - Fuel of the future for	Production of hydrogen by the electrolysis of water
aircraft [SAWE PAPER 1065] 08 p0195 A75-47495	06 p0046 A75-22044 Energy supply in a closed cycle nuclear energy
Hydrogen as a fuel analysis of problems	for nonelectrical use
involved in generation, transportation, and	06 p0049 A75-23503
utilization	Thermolysis of water for the generation of hydrogen
[AD-787484] 06 p0066 N75-15818	06 p0049 A75-23504
Possibilities for lithium borohydride recycle using diborane intermediate	Hydrogen as energy carrier in industry and household 06 p0049 A75-23505
[ICP-1054] 06 p0074 H75-16651	Hydrogen - A carrier of energy
Study of active cocling for supersonic transports	06 p0060 A75-27791
[NASA-CR-132573] 06 p0079 N75-17336	Can hydrogen transmission replace electricity 08 p0165 A75-38863
Survey of hydrogen compatibility problems in energy storage and energy transmission	Hydrogen energy fundamentals; Proceedings of the
applications	Kymposium-Course, Miami Beach, Fla., March 3-5,
[SAND-74-8219] 06 p0087 H75-18726	1975
Synthetic fuels for ground transportation with	08 p0171 A75-42276
special emphasis on hydrogen [NASA-TM-X-72652] 06 p0103 N75-20868	Will hydrogen transmission replace electricity 08 p0172 A75-42281
Metal hydrides as a source of hydrogen fuel	An energy utility company's view of hydrogen energy
[BNL-14804-R] 06 p0104 N75-20876	08 p0172 A75-42283
Potential structural material problems in a	Economics of hydrogen energy systems 08 p0172 A75-42285
hydrogen energy system [NASA-TM-X-71752] 07 p0154 H75-26500	A technology assessment of the hydrogen economy
•	concept
•	08 p0172 A75-42286
	•

SUBJECT INDEX INCLINATION

Massive production of hydrogen by a .thermo-electrochemical method	High efficiency power conversion cycles using hydrogen compressed by absorption on metal hydrides
08 p0172 A75-42531 High intensity wind belts as massive energy sources	08 p0194 A75-46034
O8 p0172 A75-42532 Cryogenic H2 and national energy needs	Hydrogen sponge heat pump carnot cycle system on lanthanum pentanickel
08 po173 A75-43977 Hydrogen energy; Proceedings of the Hydrogen BConony Miami Energy Conference, Miami Beach, Fla., March 18-20, 1974. Parts A 6 B	08 p0194 A75-46035 The rate limiting processes for the sorption of hydrogen in LaWi5 for energy storage systems 08 p0194 A75-46036
08 p0174 175-44751 Geothermal energy as a resource in a hydrogen energy economy	A technology assessment of the hydrogen economy concept 08 p0194 A75-46037
08 p0174 A75-44755 Buclear water splitting and high temperature reactors	A detailed analysis of the hydriding characteristics of LaNi5 hydrogen storage in form of metal hydrides
08 p0175 A75-44757 High-temperature nuclear reactors as an energy source for hydrogen production	08 p0194 A75-46038 Hydrogen future fuel: A literature survey issued quarterly, issue no. 6 bibliographies
08 p0175 A75-44758 Hydrogen production with a high-temperature gas-cooled reactor /HTGR/	05 p0027 N75-11110 Production of hydrogen from water using nuclear energy. A review for hydrogen-based energy
08 p0175 A75-44759 Ocean based solar-to-hydrogen energy conversion macro system	[JAERI-N-5642] 06 p0093 N75-19824 Synthetic fuels for ground transportation with special emphasis on hydrogen
08 p0175 A75-44764 Hydrogen as energy storage element in windpower systems 08 p0176 A75-44772	[NASA-TH-X-72652] 06 p0103 N75-20868 Hydrogen storage and production in utility systems [BNL-19249] 06 p0103 N75-20873 On the application of hydrogen as a fuel for
On methods for the large-scale production of hydrogen from water	automotive vehicles [ESRO-TT-132] 07 p0135 N75-22910
08 p0176 A75-44773 Electrolytic hydrogen generators	HYDROGREMATION Synthetic oil from coal
08 p0176 175-44774 Electrolysis of sea water for hydrogen fuel production	[PB-234460/4] 05 p0040 N75-15176 The relation of coal characteristics to coal liquefaction behavior
08 p0176 A75-44775 A search for thermochemical water-splitting cycles for energy production	[PB-239261/1] 07 p0151 N75-25327 HYDROLYSIS Thermochemical hydrogen production research at
08 p0177 A75-44782 An engineering-scale energy storage reservoir of	Lawrence Livermore Laboratory 08 p0177 A75-44780
iron titanium hydride hydrogen-based energy system 08 p0177 a75-44784	1
Engine performance with gasoline and hydrogen - A comparative study	IDANO Idaho geothermal R and D project report for period 16 December 1973 - 15 March 1974
08 p0177 A75-44787 Surface electronic properties and the search for new hydrogen oxidation catalysts	[ANCR-1155] 06 p0076 N75-16985 IGHITION TEMPERATURE
08 p0178 A75-44795 Hydrogen as an energy carrier feasibility analysis	Plasma heating methods for controlled fusion 07 p0119 A75-35920 ILLINOIS
08 p0178 A75-44796 On the role of hydrogen in electric energy storage	Proceedings of the 2nd Annual Illinois Energy Conference
08 p0178 A75-44797 Hydrogen-energy storage for electrical utility	[PB-240548/8] 07 p0161 N75-27575 IHAGING TECHNIQUES Oil exploration needs for digital processing of
systems 08 p0178 A75-44798 Hydrogen distribution profiling embrittlement	imagery 05 p0001 A75-10437
of storage vessel surfaces 08 p0179 A75-44805	IMPERIAL VALLEY (CA) Overview of Reclamation's geothermal program in
Future United States demand patterns and the use of hydrogen	Imperial Valley, California 06 p0098 N75-20835
08 p0179 A75-44806 Social and environmental context of the hydrogen economy	IHPREGNATING High energy density sintered plate type nickel-cadmium battery cells. II -
08 p0179 A75-44807 How might the hydrogen economy affect our resources and environment	Electrochemical impregnation methods to produce nickel oxide electrodes 05 p0008 A75-10570
08 p0179 A75-44809 Hydrogen - Mechanisms and strategies of market	IMPURITIES Effects of high doping levels on silicon solar
penetration 08 p0180 a75-44811	cell performance 07 p0123 A75-37403
Technical problems facing the hydrogen economy 08 p0180 A75-44812	INCIDENT RADIATION Method for calculating solar radiation for semicylindrical collectors
The hydrogen economy and the law 08 p0180 A75-44813	06 p0057 A75-26718 Solar incidence factor and other geometric
An engineering assessment of the hydrogen economy 08 p0180 A75-44814 Ultimate energy, the ultimate fuel, and the	considerations of solar energy collection [SAND-74-26] 05 p0034 N75-13390
hydrogen link in the electrical energy system 08 p0180 A75-44815	Survey of gas and oil burners for use with
Hydrogen production by electrolysis - Present and future 08 p0193 A75-46022	NSP/RANN-ORNL potassium boiler [ORNL-NSF-EP-45] 06 p0087 N75-18728 INCLIMATION
Hydrogen production by water electrolysis - Methods for approaching ideal efficiencies 08 p0193 A75-46023	On the optimum tilt of a solar collector 07 p0115 A75-33971

INCLUSIONS	Study of the application of UTCD to a netrologe
The relation of coal characteristics to coal	Study of the application of HTGR to a petroleum refinery petrochemical complex
liquefaction behavior	[CONF-741144-1] 07 p0142 h75-24126
[PB-239261/1] 07 p0151 N75-25327	The impact of energy shortages on the iron and
INDEXES (DOCUMENTATION)	steel industries
Various research tasks related to energy	[PB-238749/6] 07 p0145 #75-24158
information and data activities. Task 2 national energy indexing schemes:	Investigation of characteristics of magnetohydrodynamic generators in industrial
Characterization of problem	power plants
[PB-240423/4] 07 p0152 N75-25774	[AD-A008343] 07 p0149 B75-25307
INDION COMPOUNDS	Energy conservation: A case study for a large
Efficient CuInSe2/CdS solar cells	manufacturing plant
07 p0119 A75-36274	[PB-239302/3] 07 p0151 H75-25323
DFVLR activities in the area of energy research	Proceedings of the Conference on Energy Conservation in Commercial, Residential and
07 p0118 A75-35096	Industrial Buildings
The nation's first private industrial solar	[PB-240306/1] 08 p0200 B75-28539
heating system - General Electric's Valley Porge	INDUSTRIAL WASTES
Space Center	Laboratory semiautomatic infrared device for
08 p0 184 A75-45925	determining the composition of petroleum
Industrial process heat from solar energy energy storage in water pond	products in sewage 07 p0125 A75-38648
08 p0190 A75-45992	Study of industrial uses of energy relative to
Heat pipe thermal recovery units for process	, environmental effects
exhaust energy utilization	' [PB-237215/9] 06 p0084 H75-17853
08 p0194 A75-46041	INDUSTRIES
The National Coal Conversion Act and the National Crude Oil Refinery Development Act	Economic impact of the oil shale industry in
[GPO-28-964] 05 p0027 N75-10861	western Colorado [GPO-28-608] 05 p0024 N75-10588
Bureau of Mines research programs on recycling and	Energy consumption by industries in support of
disposal of mineral, metal, and energy-based	national defense: An energy demand model
wastes	[AD-784964] 05 p0031 N75-12449
[PB-227476/9] 05 p0042 N75-15203	Study of potential problems and optimum
Energy use in the commercial and industrial sectors of the US economy, 1963	opportunities in retrofitting industrial processes to low and intermediate energy gas
[PB-235487/6] 06 p0070 H75-16104	from coal
Energy problems in a global context	[PB-237116/9] 06 p0088 N75-18739
06 p0075 N75-16978	Industrial energy study of the drug manufacturing
Some developments of industrial	industries for the Pederal Energy
magnetohydrodynamic electric power plants 06 p0081 N75-17792	Administration/US Department of Commerce [PB-238994/8] 07 p0142 N75-24130
Study of industrial uses of energy relative to	Engineering and cost study of air pollution
environmental effects	control for the petrochemical industry, volume
[PB-237215/9] 06 p0084 N75-17853	3: Ethylene dichloride manufacture by
Industrial energy study of the hydraulic cement	oxychlorination
industry [PB-237142/5] 06 p0087 N75-18730	[PB-240492] 07 p0162 H75-27612 Demand for scientific and technical manpower in
Data base for the industrial energy study of the	energy-related industries: United States
industrial chemicals group	1970-1985
[PB-237845/3] 06 p0087 N75-18732	[PB-240865] 08 p0201 N75-28964
Fuel and energy consumption in the coal industries	Energy consumption: Paper,
[PB-237151/6] 06 p0088 N75-18744 Energy consumption: The primary metals and	stone/clay/glass/concrete, and food industries
petroleum industries	[PB-241926/5] 08 p0211 E75-32607 INFORMATION DISSEMINATION
[PB-241990/1] 08 p0213 N75-33503	The initiatives of the Los Alamos Scientific
INDUSTRIAL MANAGEMENT	Laboratory in the transfer of a new excavation
Industrial energy study of selected food industries	technology
[PB-237316/5] 06 p0083 N75-17827	06 p0079 N75-17203 INFORMATION NAMAGEMENT
Vulnerability of natural gas systems industrial management and operations	The solution of information-deficiency problems of
[AD-A007583] 07 p0144 H75-24143	electroenergy technology optimal decision
Fuel use in the US electrical utility industry,	making
1971 - 1990	06 p0062 A75-28508
07 p0154 N75-26493	INFORMATION RETRIEVAL REGERE P./D. Data Horkshop
INDUSTRIAL PLANTS Cooling a light industrial building in Puerto Rico	Energy R/D Data Workshop [PB-237493/2] 07 p0130 B75-21811
using solar energy	INFORMATION SYSTEMS
[AIAA PAPER 75-612] 08 p0170 A75-41178	The Environmental protection agency industrial
Industrial energy study of the Industrial	technology transfer program
chemicals group [PB-236322/4] 06 p0071 N75-16111	National energy flow accounts
Applications of aerospace technology in the	[PB-239275/1] 07 p0146 N75-24539
electric power industry	Various research tasks related to energy
06 p0079 H75-17197	information and data activities. Task 2
Background information for standards of	national energy indexing schemes:
performance: Coal preparation plants. Volume 2: Summary and test data	Characterization of problem [PB-240423/4] 07 p0152 H75-25774
[PB-237696/0] 06 p0091 H75-18797	A regional energy information system for
Technical evaluation services, clean liquid and/or	Minnesota: A preliminary design
solid fuels from coal	[PB-241124/7] 08 p0205 H75-30944
[PB-237216/7] 07 p0129 #75-21803	INFORMATION THEORY
Interdisciplinary study of atmospheric processes and constituents of the mid-Atlantic coastal	Various research tasks related to energy information and data activities: Task 4
region. Attachment 4: Data set for background	priorities analysis
investigation of atmospheric constituents for	[PB-240424/2] 07 p0151 H75-25329
Wansemond River site a proposed oil refinery	INFRARED RADIATION
site [HASA-CR-142821] 07 p0141 H75-24122	Heat mirrors for solar-energy collection and radiation insulation
	rariditon insulation

KINETIC ENERGY SUBJECT INDEX

Radiation cooling of structures with infrared transparent wind screens 08 p0167 A75-39407 INPRARRD REPLECTION Transparent heat-mirror films of TiO2/Ag/TiO2 for solar energy collection and radiation insulation 05 p0015 A75-16378 revised version
[AD-A004263]
INTERPLANETARY SPACECRAFT Principles and applications of selective solar coatings 08 p0181 A75-45511 INFRARED SPECTROPHOTOMETERS RANKS STRUTTONING THE STRUCTURE STRUCTURE LABORATORY Semiaut control infrared device for determining the composition of petroleum products in sewage 07 p0125 A75-38648 INTERMETALLICS The rate limiting processes for the sorption of hydrogen in LaNi5 --- for energy storage systems 08 p0194 A75-46036 Ion-beam implosion of fusion targets A detailed analysis of the hydriding characteristics of LaNi5 --- hydrogen storage in form of metal bydrides 08 p0194 A75-46038 INTERNAL COMBUSTION ENGINES Peasibility demonstration of a road vehicle fueled ION EXCHANGE MEMBRANE ELECTROLYTES with hydrogen-enriched gasoline 05 p0008 A75-10574 Hydrogen fuel cells and motors --- new energy technology 06 p0046 A75-22042 TRON Liquid hydrogen as an automotive fuel 06 p0048 A75-23238 Methanol as fuel for vehicle engines 06 p0050 A75-23506 [PB-235474/4] Hydrogen as fuel for internal-combustion engines 06 p0050 A75-23508 Automotive hydrogen engines, and onboard storage 08 p0172 A75-42284 Engine performance with gasoline and hydrogen - A comparative study 08 p0177 A75-44787 Backfire control techniques for hydrogen-fueled internal combustion engines 08 p0178 A75-44789 Engine development program for the APL remotely piloted vehicle
[AD-787507] 06 p0065 N75-15658 Hydrogen as a fuel --- analysis of problems IRRIGATION involved in generation, transportation, and utilization [AD-787484] 06 p0066 N75-15818 INTERNATIONAL COOPERATION International energy problems and environmental policy 05 p0014 A75-13597 Han-made sun. Thermonuclear engineering crops in Minnesota [PB-240112] developments [BLL-H-23333-(5828.4F)] 06 p0091 N75-19 The USA: The scientific and technical revolution 06 p0091 N75-19014 J and trends in foreign policy
[WASA-TT-F-16102]
INTERBATIONAL RELATIONS
The energy crises JAPAN 06 p0096 N75-20160 08 p0179 A75-44810
The USA: The scientific and technical revolution
and trends in foreign policy
[NASA-TT-F-16102] [NASA-TM-X-72659] Economic impact on the free world of the oil crisis, October 1973 - Harch 1974
[AD-A003136] 06 p0107 N [AD-A007923] 06 p0107 N75-21156 Oil and US policy [AD-A006473] JET PROPULSION [AD-A006473]
IHTERBATIONAL TRADE
The approaching energy crisis: A call for action
05 p0030 N75-12432 08 p0203 N75-29558 Dependence of the United States on essential imported materials, year 2000; volume 1 Κ 06 p0096 N75-20157 [AD-A000842] Dependence of the United States on essential imported materials, year 2000. Volume 2: Appendices [AD-A000843] 06 p0096 N75-20158 Protecting the US petroleum market against future denials of imports KINETIC ENERGY [AD-A006643] 07 p0137 N75-23387

The economics of energy and natural resource pricing [GPO-48-071] 07 p0141 N75-24115

Commerce today, volume 5, number 10 --- a discussion of international trade, economics, and energy conservation
[COM-74-50944/10] 07 p0152 N75-25775
Materials and the new dimensions of conflict, 07 p0154 N75-26499 Interplanetary spacecraft design using solar electric propulsion
[AIAA PAPER 74-1084] 05 p0010 A' 05 p0010 A75-11283 Investment possibility of financial institutions in solar heating [PB-239756/0] 07 p0155 N75-2 ION BRAMS 07 p0155 N75-26511 08 p0181 A75-45386 Terrestrial and space applications of the migma controlled fusion concept [AIAA PAPER 75-1263] 08 p0182 A75-08 p0182 A75-45663 Review of direct energy conversion of ion beams: Experimental results and reactor applications [UCRL-75600] 05 p0028 N75-1 05 p0028 N75-11466 Solid polymer electrolysis fuel cell status report 08 p0186 A75-45942 Evaluation of an ion exchange membrane fuel cell for space power [AD-786888] 05 p0037 N75-1 05 p0037 N75-14274 Photochemical conversion of solar energy --- study of iron-thionine photogalvanic cells 05 p0038 N75-14282 The impact of energy shortages on the iron and steel industries
[PB-238749/6] 07 p0145 N75IRON ALLOYS 07 p0145 N75-24158 Cryogenic properties of Fe-Hn and Fe-Hn-Cr alloys [LBL-2764] 06 p0066 N75-15781
IROW CHLORIDES Considerations on iron-chloride-oxygen reactions in relation to thermochemical water-splitting 08 p0177 A75-44779 Iron titanium hydride as a source of hydrogen fuel for stationary and automotive applications
[BNL-18651] 05 p0030 N75-12441 Some aspects of a solar battery system and its use for irrigation in remote sun-rich regions 06 p0054 a75-24256 Solar powered pump
[NASA-CASE-NPO-13567-1] 07 p0133 N75-22746
Use of thermally enriched water for growing field 07 p0159 N75-27549 Japanese/United States Symposium on Solar Energy systems. Volume 1: Summary of proceedings [MTR-6284-VOL-1] 05 p0036 N75-14264 JET ENGINE FUELS
Puture long-range transports: Prospects for improved fuel efficiency 06 p0079 N75-17339 Preparation of gas turbine engine fuel from synthetic crude oil derived from coal 07 p0147 N75-24966 On the future of jet propulsion in subsonic transport aviation 06 p0058 A75-27777

Statistical estimation of wildcat well outcome probabilities by visual analysis of structure contour maps of Stafford County, Kansas 06 p0092 N75-19778

Report on progress in achieving direct conversion of a major fraction of sonic flow kinetic power into electrical power by electrofluid dynamic /BFD/ processes

A-67

		Proceedings of a Workshop on Sola	ar Energy and the
L .		Law [PB-241051/2]	08 p0201 N75-28551
LAND USE		Natural Gas Act, 1 March 1974	-
Bconomic impact of the oil shale western Colorado [GPO-28-608]	industry in 05 p0024 N75-10588	Power shortage contingency progra Northwest. Legislative, regula	
Leasing of federal geothermal res		institutional aspects [PB-241323/5]	08 p0211 N75-32601
Energy plantations: Should we graph power plant fuel [PB-238417/0]	ow trees for 07 p0130 N75-21815	Impact of motor gasoline lead add	
LANDSAT C ERTS-C (Landsat 3) cryogenic heat		on petroleum refineries and ene 1974-1980, phase 1 [PB-234185/7]	05 p0025 N75-10601
definition [NASA-CR-143797]	07 p0138 N75-23882	LEAD COMPOUNDS Limit lead in gasoline	10 poste 210 10011
Exploration for fossil and nuclea: orbital altitudes results of		[GPO-29-660] LEGAL LIABILITY The hydrogen economy and the law	05 p0023 N75-10259
for oil exploration		•	08 p0180 A75-44813
[NASA-TM-X-70781] LANTHANUM COMPOUNDS	05 p0027 N75-11413	LIFT AUGUSTATION Evaluation of advanced lift conce	epts and fuel
The rate limiting processes for the hydrogen in Lawis for energy		conservative short-haul aircraf [NASA-CR-137525] Evaluation of advanced lift conce	06 p0096 N75-20291
A detailed analysis of the hydrid characteristics of Lawis hydrid	ing	<pre>conservative short-haul aircraf [NASA-CR-137526]</pre>	
form of metal hydrides	08 p0194 A75-46038	LIFT DEVICES Evaluation of advanced lift conce	pts and potential
LASER APPLICATIONS Laser induced luminescence signate and wirgin crude petroleum - The		fuel conservation for short-hau [NASA-CR-2502] LIFT DRAG RATIO	1 aircraft 06 p0073 N75-16557
and remote sensing implications	06 p0050 A75-23790	Evaluation of the energy perfecti different forms of transport	
Lasers investigated for space prop	oulsion 06 p0061 A75-28439	coefficients and lift drag rati [AD-A006562]	07 p0137 N75-23392
Laser energy conversion Lasers for fusion	07 p0125 A75-38474	LIGHT TRANSMISSION Lasers investigated for space pro	pulsion 06 p0061 175-28439
Laser application cf heat pipe tec	08 p0166 A75-39333	Laser application of heat pipe te energy related programs	
energy related programs Conversion of electrical energy in	08 p0195 A75-46044	Solar thermal power systems based transmission	08 p0195 A75-46044 on optical
radiation energy in high pressur	re mixtures of	[PB-237005/4] Light water breeder bractors	06 p0088 N75-18742
LASEB CAVITIES Interferometric tuning of a 15-atm	07 p0133 N75-22722 a CO2 laser	The economics of nuclear power	06 p0047 A75-22734
LASER HEATING	06 p0058 A75-27518	The use of solar cells in the lig	hthouse service 06 p0054 A75-24255
Conceptual design of a series of 1 power plants of 100 to 3000 MW/6		Liquid hydrogen liquefaction, transportation, applications	storage,
New applications for optical componency focusing	onents - High	Evaluation of coal conversion pro	06 p0046 A75-22043 cesses to provide
Performance of a laser mirror heat [ASME PAPER 74-WA/HT-61]	05 p0015 A75-16525 : pipe 05 p0018 A75-16869	clean fuels, part 2 [PB-234203/8] Survey study of the efficiency an	05 p0025 #75-10604 d economics of
Electric power generation system of laser power	lirectory from	hydrogen liquefaction [NASA-CR-132631]	07 p0133 N75-22486
[NASA-CASE-NPO-13308-1] LASER MATERIALS Laser application of heat pipe tec	08 p0204 N75-30524	LIQUEPIED GASES Some LNG vehicle developments conversion systems and fueling	
energy related programs	08 p0195 A75-46044	Project Clean Air 1972, LNG conve	06 p0048 A75-23236
LASER OUTPUTS New applications for optical compo	_	series diesel engine consider exhaust gases control	ering automobile
energy focusing	05 p0015 A75-16525	[PB-236585/6] LIQUEPIED NATURAL GAS	06 p0090 N75-18783
Laser compression of matter - Opti energy requirements	06 p0046 A75-22352	Methanol as fuel for vehicle engine Hethane gas engines for commercial	06 p0050 A75-23506
LASER PLASMAS Laser thermonuclear fusion	47. 4444 495 4944	busses	06 p0050 A75-23507
LASBES .	07 p0112 A75-32617	A survey of LNG technological need 1974 to beyond 2000	
Review of the prospects for laser thermonuclear fusion ([AECL-4840]	induced 06 p0106 N75-21099	On the potentialities of polyphen as a wet-insulation material for	
LAW (JUBISPRUDBNCB)	,	LNG-carriers	
Institutional and environmental pr geothermal rescurce development	Oblems in 06 p0100 N75-20843	[REPT-194-H] Technology and current practices for transferring and storing liquefi	
Institutional and legal constraint energy research and development		[PB-241048/8] Liquid Cooling	08 p0202 N75-29271
	08 p0200 N75-28530	Performance of a laser mirror head [ASME PAPER 74-WA/HT-61]	t pipe 05 p0018 A75-16869

SUBJECT INDEX

LIQUID FLOW	LITHIUM SULPATES
Design charts for hot liquid energy storage	Development of lithium/sulfur cells for
systems utilizing forced circulation	application to electric automobiles
[AIAA PAPER 75-742] 07 p0113 A75-32851 LIQUID HYDROGEB	[CONF-740805-7] 06 p0094 N75-19829
The use of hydrogen in connercial aircraft - An	LOADS (FORCES) An analysis of the potential for shifting electric
assessment	power demand within daily load requirement
05 p0006 A75-10542	[PB-239764/4] 07 p0156 H75-26517
Liquid hydrogen liquefaction, storage,	LOW COST
transportation, applications 06 p0046 175-22043	Development of very low cost solar cells for terrestrial power generation
Liquid hydrogen as an automotive fuel	06 p0052 175-24226
06 p0048 A75-23238	LOW DENSITY RESEARCH
Cryogenics safety in a hydrogen fuel society	Status and objective of Tokamak systems for fusion
06 p0061 A75-27973 Puture hydrogen fueled commercial transports	research
[SAE PAPER 750615] 08 p0169 A75-40521	[WASH-1295] 05 p0035 N75-13644 LOW TEMPERATURE
Research opportunities in cryogenic	Survey on power fluid for thermal power from low
hydrogen-energy systems	temperature and small temperature difference
08 p0171 175-42280	heat source
Aviation usage of liquid hydrogen fuel - Prospects and problems	07 p0119 A75-36173 Low to high temperature energy conversion system
08 p0172 A75-42282	using ammonia
Cryogenic H2 and national energy needs	[NASA-CASE-NPO-13510-1] 06 p0074 H75-16972
08 p0173 A75-43977	LOW TEMPERATURE ENVIRONMENTS
The economics of liquid hydrogen supply for air	Development of a thermal battery for emergency
transportation 08 p0173 A75-43978	radio power under arctic conditions 05 p0007 A75-10560
Low thermal flux glass-fiber/metal vessels for LH2	LUBRICARTS 05 pool 175-10300
storage systems	A short handbook on fuels and lubricants
08 p0177 A75-44783	[AD-A004358] 07 p0158 N75-27170
Hydrogen for the subsonic transport aircraft	LUBRICATING OILS
design and fuel requirements 08 p0178 A75-44791	Waste lubricating oil research. A comparison of
Liquid hydrogen as a fuel for future commercial	<pre>bench-test properties of re-refined and virgin lubricating oils materials recovery</pre>
aircraft	[PB-238124/2] 06 p0097 N75-20746
08 p0178 A75-44792	Waste automotive lubricating oil reuse as a fuel
Air Porce experience in the use of liquid hydrogen	[PB-241357/3] 08 p0204 N75-30331
as an aircraft fuel 08 p0179 A75-44801	LUBINOUS INTRNSITY
Liquid hydrogen - Future aircraft fuel:	Dependence of the basic parameters of Al/x/Ga/1-x/As-GaAs solar converters on
Background, payoff, and cryogenic engineering	temperature and optical intensity
challenge	07 p0112 A75-32824
08 p0195 A75-47081	
Liquid hydrogen - Fuel of the future for	M
Liquid hydrogen - Fuel of the future for aircraft [SANE PAPER 1065] 08 p0195 A75-47495	MAGNETIC CIRCUITS
aircraft [SAWE PAPER 1065] Alternative fuels for aviation	MAGNETIC CIRCUITS Methods of energy transfer from a magnetic energy
aircraft [SAWE PAPER 1065] Alternative fuels for aviation 06 p0075 N75-16980	MAGNETIC CIRCUITS Methods of energy transfer from a magnetic energy storage system using a transfer capacitor and a
aircraft [SAWE PAPER 1065] Alternative fuels for aviation 06 p0075 N75-16980 Survey study of the efficiency and economics of	MAGNETIC CIRCUITS Methods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch
aircraft [SAWE PAPER 1065] Alternative fuels for aviation 06 p0075 N75-16980 Survey study of the efficiency and economics of hydrogen liquefaction	MAGNETIC CIRCUITS Methods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-BS] 05 p0032 N75-13164
aircraft [SAWE PAPER 1065] Alternative fuels for aviation 06 p0075 N75-16980 Survey study of the efficiency and economics of	MAGNETIC CIRCUITS Hethods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-HS] 05 p0032 N75-13164 MAGNETIC COHTROL Fusion power by magnetic confinement - Plans and
aircraft [SAWE PAPER 1065] Alternative fuels for aviation Of p0075 N75-46980 Survey study of the efficiency and economics of hydrogen liquefaction [NASA-CR-132631] On the application of hydrogen as a fuel for automotive vehicles	MAGNETIC CIRCUITS Methods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-MS] 05 p0032 N75-13164 MAGNETIC CONTROL Pusion power by magnetic confinement - Plans and the associated need for nuclear engineers
aircraft [SAWE PAPER 1065] Alternative fuels for aviation 06 p0075 R75-16980 Survey study of the efficiency and economics of hydrogen liquefaction [NASA-CR-132631] On the application of hydrogen as a fuel for automotive vehicles [ESRO-TT-132] 07 p0135 N75-22910	MAGNETIC CIRCUITS Methods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-MS] 05 p0032 N75-13164 MAGNETIC CONTROL Fusion power by magnetic confinement - Plans and the associated need for nuclear engineers 08 p0170 A75-41433
aircraft [SAWE PAPER 1065] Alternative fuels for aviation 06 p0075 N75-16980 Survey study of the efficiency and economics of hydrogen liquefaction [NASA-CR-132631] 07 p0133 N75-22486 On the application of hydrogen as a fuel for automotive vehicles [ESRO-TT-132] 07 p0135 N75-22910 Hydrogen-future fuel-A bibliography (with emphasis	MAGNETIC CIRCUITS Methods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [IA-5631-MS] 05 p0032 N75-13164 MAGNETIC COHTROL Fusion power by magnetic confinement - Plans and the associated need for nuclear engineers 08 p0170 A75-41433 Thrust vector control by magnetic field of
aircraft [SAWE PAPER 1065] Alternative fuels for aviation 06 p0075 N75-16980 Survey study of the efficiency and economics of hydrogen liquefaction [NASA-CR-132631] On the application of hydrogen as a fuel for automotive vehicles [ESRO-TT-132] Bydrogen-future fuel-A bibliography (with emphasis on cryogenic technology)	MAGNETIC CIRCUITS Methods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-MS] 05 p0032 N75-13164 MAGNETIC CONTROL Pusion power by magnetic confinement - Plans and the associated need for nuclear engineers 08 p0170 A75-41433 Thrust vector control by magnetic field of MHD-generator rocket engine
aircraft [SAWE PAPER 1065] Alternative fuels for aviation 06 p0075 N75-16980 Survey study of the efficiency and economics of hydrogen liquefaction [NASA-CR-132631] On the application of hydrogen as a fuel for automotive vehicles [ESRO-TT-132] Bydrogen-future fuel-A bibliography (with emphasis on cryogenic technology)	MAGNETIC CIRCUITS Methods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-HS] 05 p0032 N75-13164 MAGNETIC COHTROL Pusion power by magnetic confinement - Plans and the associated need for nuclear engineers 08 p0170 A75-41433 Thrust vector control by magnetic field of MHD-generator rocket engine [IAF PAPER 75-027] 08 p0183 A75-45822 MAGNETIC STORAGE
aircraft [SAWE PAPER 1065] Alternative fuels for aviation Of p0075 N75-16980 Survey study of the efficiency and economics of hydrogen liquefaction [NASA-CR-132631] On the application of hydrogen as a fuel for automotive vehicles [ESRO-TT-132] Bydrogen-future fuel-A bibliography (with emphasis on cryogenic technology) [COM-75-10289/7] LIQUID METALS Thermodynamics of liquid metal MHD converters	MAGNETIC CIRCUITS Methods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-HS] 05 p0032 N75-13164 MAGNETIC CONTROL Pusion power by magnetic confinement - Plans and the associated need for nuclear engineers 08 p0170 A75-41433 Thrust vector control by magnetic field of MHD-generator rocket engine [IAF PAPER 75-027] 08 p0183 A75-45822 MAGNETIC STORAGE Hagnetic Energy Transfer and Storage (METS)
aircraft [SAWE PAPER 1065] Alternative fuels for aviation 06 p0075 N75-16980 Survey study of the efficiency and economics of hydrogen liquefaction [NASA-CR-132631] On the application of hydrogen as a fuel for automotive vehicles [ESRO-TT-132] Bydrogen-future fuel-A bibliography (with emphasis on cryogenic technology) [COM-75-10289/7] INQUID NETALS Thermodynamics of liquid metal MHD converters [AD-8007415] 08 p0195 A75-47495 06 p0075 N75-16980 07 p0133 N75-22486 07 p0135 N75-22910 No cryogenic technology) (COM-75-10289/7) UQUID NETALS Thermodynamics of liquid metal MHD converters [AD-8007415]	MAGNETIC CIRCUITS Methods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-MS] 05 p0032 N75-13164 MAGNETIC CONTROL Pusion power by magnetic confinement - Plans and the associated need for nuclear engineers 08 p0170 A75-41433 Thrust vector control by magnetic field of MHD-generator rocket engine [IAF PAPER 75-027] 08 p0183 A75-45822 MAGNETIC STORAGE Magnetic Energy Transfer and Storage (METS) program schedules for a Fusion Test Reactor (FTR)
aircraft [SAWE PAPER 1065] Alternative fuels for aviation Of p0075 N75-16980 Survey study of the efficiency and economics of hydrogen liquefaction [NASA-CR-132631] On the application of hydrogen as a fuel for automotive vehicles [ESRO-TT-132] Bydrogen-future fuel-A bibliography (with emphasis on cryogenic technology) [COM-75-10289/7] LIQUID METALS Thermodynamics of liquid metal MHD converters [AD-A007415] Liquid-metal binary cycles for stationary power	MAGNETIC CIRCUITS Methods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-MS] 05 p0032 N75-13164 MAGNETIC COHTROL Pusion power by magnetic confinement - Plans and the associated need for nuclear engineers 08 p0170 A75-41433 Thrust vector control by magnetic field of MHD-generator rocket engine [IAF PAPER 75-027] 08 p0183 A75-45822 MAGNETIC STORAGE Magnetic Energy Transfer and Storage (METS) program schedules for a Fusion Test Reactor (FTR) [LA-5748-MS] 06 p0106 N75-21097
aircraft [SAWE PAPER 1065] Alternative fuels for aviation 06 p0075 N75-16980 Survey study of the efficiency and economics of hydrogen liquefaction [NASA-CR-132631] On the application of hydrogen as a fuel for automotive vehicles [ESRO-TT-132] Bydrogen-future fuel-A bibliography (with emphasis on cryogenic technology) [COM-75-10289/7] LIQUID METALS Thermodynamics of liquid metal MHD converters [AD-A007415] Liquid-metal binary cycles for stationary power [NASA-TN-D-7955] LIQUID PROPELLARY ROCKET ENGINES	MAGNETIC CIRCUITS Methods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-HS] 05 p0032 N75-13164 MAGNETIC CONTROL Pusion power by magnetic confinement - Plans and the associated need for nuclear engineers 08 p0170 A75-41433 Thrust vector control by magnetic field of MHD-generator rocket engine [IAP PAPER 75-027] 08 p0183 A75-45822 MAGNETIC STORAGE Magnetic Energy Transfer and Storage (METS) program schedules for a Pusion Test Reactor (PTR) [LA-5748-HS] 06 p0106 N75-21097 MAGNETONYDRODYNABIC GENERATORS MED energy conversion systems
aircraft [SAWE PAPER 1065] Alternative fuels for aviation Of p0075 N75-16980 Survey study of the efficiency and economics of hydrogen liquefaction [NASA-CR-132631] On the application of hydrogen as a fuel for automotive vehicles [ESRO-TT-132] Bydrogen-future fuel-A bibliography (with emphasis on cryogenic technology) [COM-75-10289/7] LIQUID METALS Thermodynamics of liquid metal MHD converters [AD-A007415] Liquid-metal binary cycles for stationary power [NASA-TN-D-7955] LIQUID PROPELLART ROCKET ENGINES Application of rocket engine technology to energy	MAGNETIC CIRCUITS Methods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-HS] 05 p0032 N75-13164 MAGNETIC COHTROL Pusion power by magnetic confinement - Plans and the associated need for nuclear engineers 08 p0170 A75-41433 Thrust vector control by magnetic field of MHD-generator rocket engine [IAF PAPER 75-027] 08 p0183 A75-45822 MAGNETIC STORAGE Magnetic Energy Transfer and Storage (METS) program schedules for a Fusion Test Reactor (FTR) [LA-5748-HS] 06 p0106 N75-21097 MAGNETOHYDRODYNABIC GENERATORS MHD energy conversion systems [AIAA PAPER 74-1071] 05 p0001 A75-10263
aircraft [SAWE PAPER 1065] Alternative fuels for aviation Of p0075 N75-16980 Survey study of the efficiency and economics of hydrogen liquefaction [NASA-CR-132631] On the application of hydrogen as a fuel for automotive vehicles [ESRO-TT-132] Of p0135 N75-22910 Hydrogen-future fuel-A bibliography (with emphasis on cryogenic technology) [COM-75-10289/7] LIQUID METALS Thermodynamics of liquid metal MHD converters [AD-A007415] Liquid-metal binary cycles for stationary power [NASA-TN-D-7955] LIQUID PROPELLART ROCKET ENGINES Application of rocket engine technology to energy 08 p0185 A75-45933	MAGNETIC CIRCUITS Methods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-HS] 05 p0032 N75-13164 MAGNETIC COFTROL Pusion power by magnetic confinement - Plans and the associated need for nuclear engineers 08 p0170 A75-41433 Thrust vector control by magnetic field of MHD-generator rocket engine [IAF PAPER 75-027] 08 p0183 A75-45822 MAGNETIC STORAGE Magnetic Energy Transfer and Storage (METS) program schedules for a Pusion Test Reactor (FTR) [LA-5748-HS] 06 p0106 N75-21097 MAGNETOHYDRODYNABIC GENERATORS MHD energy conversion systems [AIAA PAPER 74-1071] 05 p0001 A75-10263 The MHD power generation system with directly
aircraft [SAWE PAPER 1065] Alternative fuels for aviation 06 p0075 N75-16980 Survey study of the efficiency and economics of hydrogen liquefaction [NASA-CR-132631] On the application of hydrogen as a fuel for automotive vehicles [ESRO-TT-132] Hydrogen-future fuel-A bibliography (with emphasis on cryogenic technology) [COM-75-10289/7] O7 p0155 N75-26509 LIQUID METALS Thermodynamics of liquid metal MHD converters [AD-A007415] Liquid-metal binary cycles for stationary power [NASA-TN-D-7955] CRUSTINES Application of rocket engine technology to energy 08 p0185 A75-45933 LITHIUM	MAGNETIC CIRCUITS Methods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-NS] MAGNETIC CONTROL Pusion power by magnetic confinement - Plans and the associated need for nuclear engineers 08 p0170 A75-41433 Thrust vector control by magnetic field of MHD-generator rocket engine [IAF PAPER 75-027] MAGNETIC STORAGE Magnetic Energy Transfer and Storage (METS) program schedules for a Fusion Test Reactor (FTR) [LA-5748-MS] 06 p0106 N75-21097 MAGNETOHYDROPYNAMIC GENERATORS MHD energy conversion systems [AIAA FAPER 74-1071] 05 p0001 A75-10263 The MHD power generation system with directly fired coal
aircraft [SAWE PAPER 1065] Alternative fuels for aviation 06 p0075 N75-16980 Survey study of the efficiency and economics of hydrogen liquefaction [NASA-CR-132631] On the application of hydrogen as a fuel for automotive vehicles [ESRO-TT-132] Bydrogen-future fuel-A bibliography (with emphasis on cryogenic technology) [COM-75-10289/7] LIQUID METALS Thermodynamics of liquid metal MHD converters [AD-A007415] Liquid-metal binary cycles for stationary power [NASA-TN-D-7955] LIQUID PROPELLABT ROCKET ENGINES Application of rocket engine technology to energy 08 p0185 A75-45933 LITHIUM Investigation of the technology and performance of	MAGNETIC CIRCUITS Methods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-HS] 05 p0032 N75-13164 MAGNETIC COFTROL Pusion power by magnetic confinement - Plans and the associated need for nuclear engineers 08 p0170 A75-41433 Thrust vector control by magnetic field of MHD-generator rocket engine [IAF PAPER 75-027] 08 p0183 A75-45822 MAGNETIC STORAGE Magnetic Energy Transfer and Storage (METS) program schedules for a Pusion Test Reactor (FTR) [LA-5748-HS] 06 p0106 N75-21097 MAGNETOHYDRODYNABIC GENERATORS MHD energy conversion systems [AIAA PAPER 74-1071] 05 p0001 A75-10263 The MHD power generation system with directly
aircraft [SAWE PAPER 1065] Alternative fuels for aviation 06 p0075 N75-16980 Survey study of the efficiency and economics of hydrogen liquefaction [NASA-CR-132631] On the application of hydrogen as a fuel for automotive vehicles [ESRO-TT-132] Hydrogen-future fuel-A bibliography (with emphasis on cryogenic technology) [COM-75-10289/7] O7 p0155 N75-26509 LIQUID METALS Thermodynamics of liquid metal MHD converters [AD-A007415] Liquid-metal binary cycles for stationary power [NASA-TN-D-7955] CIQUID PROPELLABT ROCKET ENGINES Application of rocket engine technology to energy 08 p0185 A75-45933 LITHIUM Investigation of the technology and performance of lithium doped solar cells feasibility study for mass production	MAGNETIC CIRCUITS Methods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-NS] MAGNETIC CONTROL Pusion power by magnetic confinement - Plans and the associated need for nuclear engineers 08 p0170 A75-41433 Thrust vector control by magnetic field of MHD-generator rocket engine [IAF PAPER 75-027] MAGNETIC STORAGE Magnetic Energy Transfer and Storage (METS) program schedules for a Pusion Test Reactor (FTB) (LA-5748-MS) 06 p0106 N75-21097 MAGNETOHYDRODYNABIC GENERATORS MHD energy conversion systems (AIAA PAPER 74-1071) 05 p0001 A75-10263 The MED power generation system with directly fired coal 05 p0009 A75-10577 Development of a theoretical method for predicting the performance of hydrogen-oxygen BBD generators
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aircraft [SAWE PAPER 1065] Alternative fuels for aviation 06 p0075 N75-16980 Survey study of the efficiency and economics of hydrogen liquefaction [NASA-CR-132631] On the application of hydrogen as a fuel for automotive vehicles [ESRO-TT-132] Of p0135 N75-22910 Bydrogen-future fuel-A bibliography (with emphasis on cryogenic technology) [COM-75-10289/7] LIQUID METALS Thermodynamics of liquid metal MHD converters [AD-A007415] Of p0145 N75-24141 Liquid-metal binary cycles for stationary power [NASA-TN-D-7955] OR p0205 N75-30649 LIQUID PROPELLART ROCKET ENGIRES Application of rocket engine technology to energy OR p0185 A75-45933 LITHIUM Investigation of the technology and performance of lithium doped solar cells feasibility study for mass production 06 p0052 A75-24219 The practical lithium/poly-carbonmonofluoride battery system 08 p0188 A75-45964 Non-hazardous primary lithium-organic electrolyte battery BA-5590 ()/U [AD-A003312] LITHIUM BORATES Possibilities for lithium borohydride recycle using diborane intermediate [ICP-1054] LITHIUM COMPOUNDS Study on parameter variations for solar powered lithium bromide absorption cooling	MAGNETIC CIRCUITS Methods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-MS] 05 p0032 N75-13164 MAGNETIC COFFROL Pusion power by magnetic confinement - Plans and the associated need for nuclear engineers 08 p0170 A75-41433 Thrust vector control by magnetic field of MHD-generator rocket engine [IAP PAPER 75-027] 08 p0183 A75-45822 MAGNETIC STORAGE Magnetic Energy Transfer and Storage (METS) program schedules for a Fusion Test Reactor (FTR) [LA-5748-MS] 06 p0106 N75-21097 MAGNETOHYDRODYNAMIC GENERATORS HAD energy conversion systems [ATAN FAPER 74-1071] 05 p0001 A75-10263 The HHD power generation system with directly fired coal 05 p0009 A75-10577 Development of a theoretical method for predicting the performance of hydrogen-oxygem HHD generators 05 p0009 A75-10578 Applications of plasma core reactors to terrestrial energy systems [ATAN PAPER 74-1074] 05 p0010 A75-11281 Progress in development of auxiliary HHD power plant components at Avco Everett Research Laboratory, Inc [ASME PAPER 74-WA/ENER-6] 05 p0016 A75-16838 Recent HHD generator testing at Avco Everett Research Laboratory, Inc [ASME PAPER 74-WA/ENER-7] 05 p0016 A75-16839 Possible development of acoustical instability in a system consisting of a combustion chamber and a subsonic HHD generator
aircraft [SAWE PAPER 1065] Alternative fuels for aviation 06 p0075 N75-16980 Survey study of the efficiency and economics of hydrogen liquefaction [NASA-CR-132631] On the application of hydrogen as a fuel for automotive vehicles [ESRO-TT-132] Bydrogen-future fuel-A bibliography (with emphasis on cryogenic technology) [COM-75-10289/7] Or p0135 N75-22910 Hydrogen-future fuel-A bibliography (with emphasis on cryogenic technology) [COM-75-10289/7] Or p0155 N75-26509 LIQUID METALS Thermodynamics of liquid metal MHD converters [AD-A007415] Liquid-metal binary cycles for stationary power [NASA-TN-D-7955] OR p0205 N75-30649 LIQUID PROPELLARY ROCKET ENGINES Application of rocket engine technology to energy OR p0185 A75-45933 LITHIUM Investigation of the technology and performance of lithium doped solar cells feasibility study for mass production OR p0052 A75-24219 The practical lithium/poly-carbonmonofluoride battery system OR p0188 A75-45964 Non-hazardous primary lithium-organic electrolyte battery BA-5590 ()/U [AD-A003312] Or p0129 N75-21804 LITHIUM BORATES Possibilities for lithium borohydride recycle using diborane intermediate [ICP-1054] LITHIUM CONPOUNDS Study on parameter variations for solar powered	MAGNETIC CIRCUITS Methods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-MS] 05 p0032 N75-13164 MAGNETIC COHTROL Pusion power by magnetic confinement - Plans and the associated need for nuclear engineers 08 p0170 A75-41433 Thrust vector control by magnetic field of MHD-generator rocket engine [IAF PAPER 75-027] 08 p0183 A75-45822 MAGNETIC STORAGE Magnetic Energy Transfer and Storage (METS) program schedules for a Fusion Test Reactor (FTR) (LA-5748-MS) 06 p0106 N75-21097 MAGNETOHYDRODYNABIC GENERATORS MHD energy conversion systems [AIAA PAPER 74-1071] 05 p0001 A75-10263 The MHD power generation system with directly fired coal 05 p0009 A75-10577 Development of a theoretical method for predicting the performance of hydrogen-oxygen MHD generators 05 p0009 A75-10578 Applications of plasma core reactors to terrestrial energy systems [AIAA PAPER 74-1074] 05 p0010 A75-11281 Progress in development of auxiliary MHD power plant components at Avco Everett Research Laboratory, Inc [ASME PAPER 74-WA/ENER-6] 05 p0016 A75-16838 Recent MHD generator testing at Avco Everett Research Laboratory, Inc [ASME PAPER 74-WA/ENER-7] 05 p0016 A75-16839 Possible development of acombustion chamber and
aircraft [SAWE PAPER 1065] Alternative fuels for aviation 06 p0075 N75-16980 Survey study of the efficiency and economics of hydrogen liquefaction [NASA-CR-132631] On the application of hydrogen as a fuel for automotive vehicles [ESRO-TT-132] Of p0135 N75-22486 [ESRO-TT-132] Of p0135 N75-22910 Hydrogen-future fuel-A bibliography (with emphasis on cryogenic technology) [COM-75-10289/7] LIQUID METALS Thermodynamics of liquid metal MHD converters [AD-A007415] Liquid-metal binary cycles for stationary power [NASA-TN-D-7955] OR p0205 N75-30649 LIQUID PROPELLABT ROCKET ENGINES Application of rocket engine technology to energy OR p0185 A75-45933 LITHIUM Investigation of the technology and performance of lithium doped solar cells feasibility study for mass production OR p0052 A75-24219 The practical lithium/poly-carbonmonofluoride battery system OR p0188 A75-45964 Non-hazardous primary lithium-organic electrolyte battery BA-5590 ()/U [AD-A003312] LITHIUM BORATES Possibilities for lithium borohydride recycle using diborane intermediate [ICP-1054] LITHIUM COMPOUNDS Study on parameter variations for solar powered lithium bromide absorption cooling OR p0186 A75-45938	MAGNETIC CIRCUITS Methods of energy transfer from a magnetic energy storage system using a transfer capacitor and a superconducting switch [LA-5631-HS] MAGNETIC COPTROL Pusion power by magnetic confinement - Plans and the associated need for nuclear engineers 08 p0170 A75-41433 Thrust vector control by magnetic field of MHD-generator rocket engine [IAF PAPER 75-027] MAGNETIC STORAGE Magnetic Energy Transfer and Storage (METS) program schedules for a Pusion Test Reactor (PTR) [LA-5748-HS] MAGNETOHYDRODYNABIC GENERATORS MHD energy conversion systems [AIAA PAPER 74-1071] 05 p0001 A75-10263 The MHD power generation system with directly fired coal 05 p0009 A75-10577 Development of a theoretical method for predicting the performance of hydrogen-oxygen MHD generators 05 p0009 A75-10578 Applications of plasma core reactors to terrestrial energy systems [AIAA PAPER 74-1074] 05 p0010 A75-11281 Progress in development of auxiliary MHD power plant components at Avco Everett Research Laboratory, Inc [ASME PAPER 74-WA/ENER-6] 05 p0016 A75-16838 Recent MHD generator testing at Avco Everett Research Laboratory, Inc [ASME PAPER 74-WA/ENER-7] 05 p0016 A75-16839 Possible development of acoustical instability in a system consisting of a combustion chamber and a subsonic MHD generator

HAGESTONYDBODYNAMICS SUBJECT INDEX

Review of central rower magnetohydrodynamics
[AIAA PAPER 75-264] 06 p0055 A75-25005
Pluctuations of electric power in MHD channels Investigation of characteristics of magnetohydrodynamic generators in industrial power plants [AD-A008343] 07 p0110 A75-30949 (A)-A008343 07 p0149 #75-25307 MHD power generation (Viking Series) with Calculation of the electrical conductivity of the combustion products of the working medium in an open-cycle MHD generator hydrocarbon fuels, part 3 [AD-A004216] 07 p0155 N75-26502 Refractory materials for coal-fueled MHD power generation 07 p0112 A75-31568 Concerning the use of a nitrogen-potassium gaseous mixture for protection of MHD-generator [PB-239607/5] 07 p0157 N75-26524 07 p0112 A75-31569 Effect of inhomogeneity of conductivity on end effect in a sectional HHD generator electrodes by suction US and Soviet MHD technology: A Comparative overview [AD-A004614] 07 p0162 #75-27901 **MAGNETOHYDRODYNAMICS** MED energy conversion
[AD-785419]
MAN ENVIRONMENT INTERACTIONS O/ p0119 A75-362
Investigation of the optimal MHD-generator
characteristics for combinational open-cycle MHD
power generators --- using one dimensional
channel flow model 05 p0032 N75-12807 Interaction between the fuel-energy complex and the environment 07 p0119 A75-36260 07 p0110 A75-29800 Problems of direct conversion of thermal and MANAGEMENT INFORMATION SYSTEMS
Master plan for REIS implementation
[PB-241126/2]
0 nuclear energy to electric energy 07 p0120 A75-36415 08 p0205 N75-30945 MHD energy conversion for high power electrical Design considerations for a comprehensive regional energy information system
[PB-241123/9] needs 08 p0206 N75-30946 07 p0124 A75-37657 Development of the KIVA-I MHD open cycle generator 07 p0124 A75-37686 MANAGEMENT METHODS Extended energy management methods for flight Theoretical study of the energy output of two magnetohydrodynamic generators performance optimization [AIAA PAPER 75-30] [AIAA PAPER 75-30] 05 p0021 A75-18269 Energy utilization by households and technology assessment as a way to increase its effectiveness 07 p0125 A75-38568 NAD power generation --- management methods and family decision making 06 p0097 N75-20829 A study of energy systems command, control and 08 p0166 A75-39197 An MHD energy storage system comprising a heavy-water producing electrolysis plant and a heavy-water producing electrolysis plant and a
B2/O2/CSOH MHD generator/steam turbine
combination to provide a means of transferring
nuclear reactor energy from the base-load regime
into the intermediate-load and peaking regimes

08 p0179 A75-44800
MHD electrical power generation from fossil fuels
[AIAA PAPER 75-1236]

Consideration of ultra-high temperature nuclear
heat sources for MHD conversion systems communication for energy crisis management
[PB-239290/0] 07 p0136 N75-22927
Insufficient utilization of scientific advances --- sociopolitical and economic management of technological development 07 p0137 N75-23365 MANAGEMENT PLANNING Project Independence heat sources for MHD conversion systems
[AIAA PAPER 75-1258] 08 p0182 A75-45659
Thrust vector control by magnetic field --- of 05 p0029 N75-12428 Imperial Valley's proposal to develop a guide for geothermal development within its county HHD-generator rocket engine
[IAF PAPER 75-027] 06 p0100 N75-20844 08 p0183 A75-45822 The Lawrence Berkeley Laboratory geothermal Conceptual design and economics of an MHD pilot program in northern Nevada 06 p0100 N75-20845 plant 08 p0189 A75-45974 The total flow concept for geothermal energy High temperature air preheaters for open cycle MHD energy conversion systems
[AICHE PAPER 16] 08 p0196 A75-475 conversion 06 p0100 m75-20846 San Diego Gas and Electric Company Imperial Valley 08 p0196 A75-47512 HHD energy conversion
[AD-785419] 05 p0032 N75A review of the status of HHD power generation geothermal activities 05 p0032 N75-12807 06 p0100 N75-20847 Plans and status of the NASA-Lewis Research Center wind energy project
[NASA-TH-X-71701] technology including suggestions for a Canadian MHD research program 07 p0128 N75-21795 A state energy management plan for North Carolina, phase 1: A quantitive description of the current situation and analysis of the [UTIAS-39] 05 p0035 N7: First Joint Soviet-American Colloquium on the 05 p0035 N75-13641 Problems of MHD Energy Conversion current situation dud and party of the determinants and consequences of future energy use [PR-238197/8] 07 p0130 N75-21819 [JPRS-63794] 06 p0081 N75-17790 Prospects for magnetohydrodynamic electric power [PB-238197/8]
A USAF energy projection model
[AD-A006928] plants in power engineering 06 p0081 N75-17791 07 p0132 N75-22476 An analysis of constraints on increased coal Some developments of industrial production magnetohydrodymamic electric power plants 06 p0081 N75-17792
Experience in the first step of the mastery of the [PB-240613/0] MANAGEMENT SYSTEMS 07 p0157 N75-26525 Evaluating integrated utility systems 06 p0081 N75-17793 [PB-238765/2] 07 p0136 N75-22925 Electronic model of the U-25 device A study of energy systems command, control and communication for energy crisis management 06 p0081 N75-17794 The HHD generator: A step toward the energy supply of tomorrow --- development of magnetohydrodynamic generators [PB-239290/0] 07 p0136 #75-22927 MARGANESE ALLOYS Cryogenic properties of Fe-Mn and Fe-Mn-Cr alloys [LBL-2764] 06 p0066 N75-15781 [AD-A000087] 06 p0089 N75-187
The generator of the future --- development of the 06 p0089 #75-18749 MANIFOLDS. magnetohydrodynamic generators [AD-A001515] Pluid manifold design for a solar energy storage 06 p0089 N75-18754 tank Thermodynamics of liquid metal MHD converters [NASA-TM-X-64940] 07 p0160 #75-27562 [AD-A007415] 07.p0144 N75-24141 HANPOWER Studies on improvement of the characteristics of MHD power generating channel --- conducting fluids [REPT-749] 07 p0148 N75-25293 Demand for scientific and technical manpower in energy-related industries: United States 1970-1985 [PB-240865] 08 p0201 B75-28964

SUBJECT INDEX MEASURING INSTRUMENTS

BANUFACTURING	MASS SPECTROSCOPY
Heat pipe manufacturing study	The identification of gamma-valerolactone in waste
[NASA-CR-139140] 05 p0023 N75-10347	from an oil-shale in situ retort
Solar kine: Answer to the agricultural energy challenge of our time	determination of chemical composition by mass spectroscopy of effluents from crude oil shales
06 p0086 N75-18721	causing water pollution
A SASOL type process for gasoline, methanol, SNG,	[PB-240098/4] 07 p0147 N75-24852
and low-Btu gas from coal	HASS TRANSPER
[PB-237670/5] 06 p0095 N75-19838	Controlled heat pipes 05 p0012 A75-12912
Fundamental aspects of systems for the thermochemical production of hydrogen from water	Electrochemical power sources heat and mass
[LA-UR-74-1459] 07 p0127 N75-21391	transfer in porous media
MAPPING	[AD-A001610] 06 p0094 H75-19836
Evaluation of the suitability of Skylab data for	MATERIAL BALANCE
the purpose of petroleum exploration [E75-10257] 07 p0147 N75-25237	Application of thermodynamic and material- and energy-balance calculations to gasification
HAPS	processes
The mine map repository: A source of mine map data	06 p0055 A75-24785
[PB-240136/2] 07 p0148 N75-25288	HATERIALS
MARINE BIOLOGY	Potential structural material problems in a
The effect of Alaskan crude oil and selected hydrocarbon compounds on embryonic development	hydrogen energy system [NASA-TH-X-71752] 07 p0154 N75-26500
of the Pacific Oyster, Crassostrea gigas	MATERIALS HANDLING
06 p0090 N75-18764	Fuel energy systems - Conversion and transport
NARINE ENVIRONMENTS	efficiencies
Solar sea power plants /SSPP/ using ocean	05 p0007 A75-10554
thermal gradients	Technology and community development materials processing, and electrical and nuclear technology
08 p0191 A75-45996 Prospects for utilization of underwater houses and	technical research center of Finland
chambers in development of marine oil deposits	05 p0031 N75-12695
05 p0029 N75-11606	MATERIALS BECOVERY
BARINE PROPULSION	Synthetic oil from coal
Application of superconducting electrical	[PB-234460/4] 05 p0040 N75-15176
machinery to the propulsion systems of commercial vessels gas turbines	Waste lubricating oil research. A comparison of bench-test properties of re-refined and wirgin
[COM-75-10137] 07 p0147 N75-25200	lubricating oils materials recovery
MARINE RESOURCES	[PB-238124/2] 06 p0097 N75-20746
Ocean thermal energy conversion system evaluation	Characterization of sulfur recovery from refinery
[AIAA PAPER 75-616] 06 p0064 A75-29115	fuel gas
Tropical ocean thermal power plants and potential products	[PB-239777/6] 07 p0151 N75-25326 Glass recycling and reuse
[AIAA PAPER 75-617] 06 p0064 A75-29116	[PB-239674/5] 08 p0200 n75-28536
MARINE TECHNOLOGY	Extracting minerals from geothermal brines: A
Hot water hydraulics of the Gulf Stream sited OTGM	literature study
[PB-242151/9] 08 p0213 N75-33502	[PB-240681/7] 08 p0202 N75-29545
An evaluation of oceanographic and socioeconomic	The need for a national materials policy, part 1 [GPO-39-885] 08 p0209 N75-31954
aspects of a nearshore ocean thermal energy conversion pilot plant in subtropical Hawaiian	[GPO-39-885] 08 p0209 N75-31954 The need for a national materials policy, part 2
vaters	[GPO-40-687] 08 p0209 N75-31955
[PB-242167/5] 08 p0213 N75-33509	The need for a national materials policy, part 3
MARKET RESEARCH	[GPO-40-687] 08 p0209 N75-31956
Technology utilization - Incentives and solar energy 06 p0048 A75-22913	The effect of sunshine testing on terrestrial
Hydrogen - Mechanisms and strategies of market	solar cell system components
penetration	07 p0123 A75-37396
08 p0180 A75-44811	Radioisotope space power generator
Prospective regional markets for coal conversion	[GA-A-12848] 05 p0038 N75-14832
plant products projected to 1980 and 1985. Volume 2: Current and projected demand, supply	A wind energy conversion system based on the
and price of energy in the United States	tracked-vehicle airfoil concept
[PB-236632/6] 06 p0078 N75-17007	05 p0004 A75-10518
Prospective regional markets for coal conversion	An analytical and experimental investigation of a
plant products projected to 1980 and 1985.	laboratory solar pond model
Volume 3: Current and projected demand, supply and price of energy in the United States,	[ASME PAPER 74-WA/SOL-3] 05 p0019 A75-16886 Energy systems ~ Modeling and policy analysis
schedules	06 p0055 A75-24750
[PB-236633/4] 06 p0078 H75-17008	Calculation of flat-plate collector loss
Economic modeling and energy policy planning	coefficients of solar radiation
technology transfer, market research	07 p0109 A75-29480
06 p0079 H75-17210	Humerical modeling of flat plate solar collectors [AIAA PAPER 75-739] 07 p0113 A75-32861
Current energy shortages oversight series: Oil	The economic incentive for introducing electric
brokers, part 7	storage devices into the national energy system
[GPO-32-607] 07 p0161 B75-27576	08 p0184 A75-45929
Thermodynamic considerations of Isolid state	The BCL-Thurow model supplement [PB-241113/0] 08 p0204 N75-29952
Thermodynamic considerations of 'solid state engines' based on thermoelastic martensitic	HATRICES (HATEBHATICS)
transformations and the shape memory effect	Application of fast sparse-matrix techniques and
06 p0045 A75-19631	an energy estimation model for large
HASS	transporation networks
Evaluation of the overall fuel mass penalty of an aircraft system	08 p0201 N75-28967 HEASURING INSTRUMENTS
07 p0121 A75-36720	National Bureau of Standards annual report:
MASS BATIOS	Piscal year 1974 including a discussion of
Power generation for the I4 spacecraft - A step in	measuring instruments, energy, safety
the development of a high power/mass ratio,	engineering, and computers
hybrid solar array for applications spacecraft 06 p0053 A75-24251	[COM-75-10465/3] 08 p0206 M75-30948
to grow are area.	

HECHANICAL DRIVES SUBJECT INDEX

MECHANICAL DRIVES		METALS	
Mechanical thermal motor		Bureau of Mines research programs o	n recycling and
[NASA-CASE-MFS-23062-1]	07 p0160 N75-27561	disposal of mineral, metal, and e	
MECHANICAL OSCILLATORS		wastes	
Efficient thermo-mechanical gener electricity from the heat of ra		[PB-227476/9] 0 Problems of the future and potential	5 p0042 ¥75-15203
erestrorty from the heat of fa	08 p0 192 A75-46013	system engineering metallic m	
BECHABICAL PROPERTIES		plastics, traffic and energy supp	
Mechanical properties of oil shal		[ESRO-TT-110] 0	6 p0107 m75-21218
Point under conditions of uniax		METEOROLOGICAL PARAMETERS	
[SAND-74-0035] MEGALOPOLISES	06 p0092 N75-19390	<pre>Meteorological factors and dispersi pollutants in the atmosphere - A</pre>	
Mode shift strategies in intercit	y transportation	study about a large power plant	Preminari
and their effect on energy cons		0	6 p0045 A75-21150
[AIAA PAPER 75-315]	06 p0055 A75-25013	Statistical relation between heat t	
MELTING Coal gasification by Atomics Inte	rnationalls .	closed area and meteorological paths the use of a solar refrigerating	
Rockgas process	I national S		8 p0169 A75-41072
[ASME PAPER 74-WA/PWR-11]	05 p0018 A75-16883	BETHAUE	
MBRCURY (METAL)		Two-stage methane production from s	
Cycle study of a mercury-colloida dynamic power generator	1 electrofiuld		5 p0017 175-16842
[AD-A004814]	07 p0159 N75-27559	Methane gas engines for commercial busses	venicies and
BETAL FIBERS	c. po tos att 21005	the state of the s	6 p0050 A75-23507
Capillary flow through heat-pipe		Orban waste energy resources	
[AIAA PAPER 75-661]	07 p0114 A75-32919		6 p0062 175-28598
Transparent heat-mirror films of	TiO2/AG/TiO2 for	Methane in the Pittsburgh coalbed, to County, Pennsylvania	asnington
solar energy collection and rad			6 p0089 N75-18760
	05 p0015 A75-16378	Puel gas production from solid waste	
BETAL HYDRIDES	-4		6 p0095 N75-19843
Metal hydrides for thermal energy	05 p0004 A75-10522	Environmental aspects of methanol as fuel: Health and environmental es	
Metal hydride fuel cell power sou			6 p0095 N75-19867
•	05 p0008 A75-10564	Technology for the conversion of so	
60 watt hydride-air fuel cell sys		fuel gas	
Predicted energy densities for ni	05 p0008 A75-10567	[PB-238103/6] 00 Technology for the conversion of sol	6 p0104 #75-20883
silver-hydrogen cells embodying		fuel gas	rar energy co
hydrides for hydrogen storage			7 ģ0136 N75-22919
	05 p0008 A75-10572	Methane emission from U.S. Coal mine	
Production of hydrogen by the ele-		survey	
An engineering-scale energy stora	06 p0046 A75~22044	[PB-240154/5] 07 The influence of the petrology of the	7 p0152 N75-25354
iron titanium hydride hydro		coals on their methane contents	.c narayanara
system		[BLL-RTS-9309] 07	7 p0158 N75-27511
min efficiency company	08 p0177 A75-44784	HETHODOLOGY	
High efficiency power conversion hydrogen compressed by absorption		Benefit+cost methodology study with application of the use of wind gen	
hydrides	on on metal		3 p0207 ¥75-31571
-,	08 p0194 A75-46034	BETHYL ALCOHOLS	•
A detailed analysis of the hydrid		Methanol as fuel for vehicle engines	
characteristics of LaNis hydrides	arogen storage in		5 p0050 175-23506
form of metal hydrides	08 p0194 A75-46038	Sea thermal power as a hydrogen and generator	mechano.
Metal hydrides as hydrogen storage			3: p0175 A75-44763
[BNL-18887]	05 p0030 N75-12440	Sources and methods for methanol pro	
Energy storage for utilities via			3 p0180 A75-44816
<pre> [BNL-19266] Hydrogen economy: A utility pers</pre>	06 p0086 N75-18725 pective	1.5 and 3KW indirect methanol-air fu plants	er cert boser
[BNL-19267]	06 p0103 N75-20870		P0186 A75-45944
Metal hydrides as a source of hydr		The economics of the production of 1	iquid fuel and
[BHL-14804-R] On the application of hydrogen as	06 p0104 N75-20876	fertilizer by the fixation of atmo	spheric carbon
automotive vehicles	" Idel Ide	and nitrogen using nuclear power 08	p0191 A75-46001
[ESRO-TT-132]	07 p0135 N75-22910	Elimination of duty on methanol impo	
METAL OXIDE SEMICONDUCTORS	-	certain uses	
A 15% efficient antireflection-commetal-oxide-semiconductor solar		[H-REPT-93-998] 05 Use of methanol in transportation	p0026 N75-10857
meral office-semiconductor sold	07 p0119 A75-36275	liquefaction methods	COGI
An Al p-silicon MOS photovoltaic	cell	[UCID-16528] 06	p0077 N75-16996
	08 p0173 A75-43459	Methanol from forestry, municipal, a	bа
METAL SURPACES	e for colar	agricultural organic residues	n0085 W75-10702
Use of flexible reflective surface energy concentration	SO TAT SATET	[BNWL-SA-5053] 06 Methyl alcohol production by in situ	p0085 N75-18702 coal
Charat announce to track on	06 p0056 A75-25678	gasification	
Designing heat pipe heat sinks .	-	[UCID-51600] 07	p0128 N75-21797
[AIAA PAPER 75-724]	07 p0113 A75-32868	HICROANALYSIS	oshsi4414
RETAL VAPORS A potassium topping cycle for publ	ic utility power	Bydrogen distribution profiling of storage vessel surfaces	emplicite#6Df
plants			p0179 A75-44805
[AIAA PAPER 75-1235]	08 p0181 A75-45647	MICROMETBOROLOGY	· -
BETAL-GAS SISTEMS	skal skydnagan3	Meteorological factors and dispersio	
Predicted energy densities for nic silver-hydrogen cells embodying		pollutants in the atmosphere - A p study about a large power plant	retrainath .
hydrides for hydrogen storage			p0045 A75-21150
	05 p0008 A75-10572	HICROPOROSITY	· -
		An investigation of heat-pipe wick c 05	haracteristics p0012 A75-12914

SUBJECT INDEX BIRRORS

BICROUNVE TRANSFISSION The satellite solar power station - An option for	A summary of significant results in mining metallurgy and energy, Bureau of Hines Research
energy production on earth [AIAA PAPER 75-637] The adaptation of free space power transmission +cshoology to the SCPS	1974 [PB-241084/2] Extracting minerals from geothermal brines: A literature study
technology to the SSPS concept Satellite Solar Power Stations [AIAA PAPER 75-642] 06 p0063 A75-28602	[PB-240681/7] 08 p0202 H75-29545
Modeling and computer simulation of a microwave-to-dc energy conversion element	Remote sensing applied to energy-related problems; Proceedings of the Symposium-Course, Hiami,
07 p0120 A75-36500 Report on studies of space to earth microwave	Fla., December 2-4, 1974 07 p0118 A75-35451
power transmission systems [IAF PAPER 75-005] 08 p0183 A75-45814 The satellite solar power station - A step toward	Remote sensing for Western coal and oil shale development planning and environmental analysis 07 p0118 A75-35458
the industrial use of space [IAF PAPER 75-003] 08 p0183 A75-45903 Analysis of technological development problems	Assessment of uranium and thorium resources in the United States and the effect of policy alternatives
posed by use of orbital systems for energy conversion and transfer in and from space	[PB-238658/9] 07 p0143 H75-24133 HIBBBAL OILS
08 p0 199 H75-28517	Technological and commercial possibilities which result by using a high temperature reactor for
A superconducting microwave engine 06 p0056 A75-25831	the future supply of mineral oil in the PRG [JUL-1017-RG] 05 p0029 H75-11470
MILITARY AIR FACILITIES A USAF energy projection model	MIMBRALS The 1973 fuel and electrical energy requirements
[AD-A006928] 07 p0132 N75-22476 An interdisciplinary engineering approach to a	of selected mineral industries activities 07 p0134 #75-22899
facility design study with emphasis on energy conservation. Volume 2: Main report text	MIHRS (BECAVATIONS) Degasification of the Mary Lee coalbed near Oak
[AD-A006804] 07 p0142 N75-24129 An interdisciplinary engineering approach to a	Grove, Jefferson County, Alabama, by vertical borehole in advance of mining
facility design study with emphasis on energy conservation. Volume 1: Executive summary	[BM-RI-7968] 05 p0028 N75-11462 Design optimization in underground coal systems
[AD-A006803] 07 p0149 N75-25304 An interdisciplinary engineering approach to a	[PB-239075/5] 07 p0145 N75-24153 The mine map repository: A source of mine map data
facility design study with emphasis on energy conservation. Volume 3: Appendices	[PB-240136/2] 07 p0148 N75-25288 Methane emission from U.S. Coal mines in 1973, a
[AD-A006805] 07 p0149 H75-25305 HILITABY AIBCRAFT	survey [PB-240154/5] 07 p0152 H75-25354
<pre>Bnergy~related research and development in the United States Air Porce</pre>	MINIATURIZATION Development and performance of a miniature,
06 p0075 N75-16979 HILITARY OPERATIONS	high-voltage thermal battery 05 p0007 A75-10559
Alternative strategies for optimizing energy supply, distribution, and consumption systems on waval bases. Volume 3: Assessment of total	The solution of information-deficiency problems of electroenergy technology optimal decision
supply, distribution, and consumption systems on Baval bases. Volume 3: Assessment of total energy system applications at Naval facilities (AD-A003590) 08 p0202 H75-29550	The solution of information-deficiency problems of electroenergy technology optimal decision making 06 p0062 A75-28508
supply, distribution, and consumption systems on Baval bases. Volume 3: Assessment of total energy system applications at Naval facilities [AD-A003590] 08 p0202 N75-29550 Army installation energy requirements in CONUS [AD-A008951] 08 p0205 N75-30660 BILITARY SPACECRAFT	The solution of information-deficiency problems of electroenergy technology optimal decision making 06 p0062 A75-28508 HINING Remote sensing applied to mine subsidence - Experience in Pennsylvania and the Midwest
supply, distribution, and consumption systems on Waval bases. Volume 3: Assessment of total energy system applications at Waval facilities [AD-A003590] 08 p0202 N75-29550 Army installation energy requirements in CONUS [AD-A008951] 08 p0205 N75-30660	The solution of information-deficiency problems of electroenergy technology optimal decision making 06 p0062 A75-28508 HINING Remote sensing applied to mine subsidence -
supply, distribution, and consumption systems on Baval bases. Volume 3: Assessment of total energy system applications at Naval facilities (AD-A003590) 08 p0202 H75-29550 Army installation energy requirements in CONUS (AD-A008951) 08 p0205 H75-30660 BILITARY SPACECRAFT Solar cell and array standardization for Air Porce	The solution of information-deficiency problems of electroenergy technology optimal decision making 06 p0062 A75-28508 HINING Remote sensing applied to mine subsidence - Experience in Pennsylvania and the Midwest 07 p0121 A75-36809 Bureau of Mines research 1973. Summary of significant results in mining, metallurgy, and
supply, distribution, and consumption systems on Baval bases. Volume 3: Assessment of total energy system applications at Naval facilities [AD-A003590] 08 p0202 N75-29550 Army installation energy requirements in CONUS [AD-A008951] 08 p0205 N75-30660 MILITARY SPACECRAFT Solar cell and array standardization for Air Force spacecraft 05 p0002 A75-10486 MILITARY TECHNOLOGY Air Force experience in the use of liquid hydrogen as an aircraft fuel	The solution of information-deficiency problems of electroenergy technology optimal decision making 06 p0062 A75-28508 HINING Remote sensing applied to mine subsidence - Experience in Pennsylvania and the Midwest 07 p0121 A75-36809 Bureau of Mines research 1973. Summary of significant results in mining, metallurgy, and energy [PB-234733/4] 05 p0040 N75-15171 Puel and energy consumption in the coal industries
supply, distribution, and consumption systems on Haval bases. Volume 3: Assessment of total energy system applications at Naval facilities [AD-A003590] 08 p0202 N75-29550 Army installation energy requirements in CONUS [AD-A008951] 08 p0205 N75-30660 BILITARY SPACECRAFT Solar cell and array standardization for Air Porce spacecraft 05 p0002 A75-10486 BILITARY TECHNOLOGY Air Force experience in the use of liquid hydrogen	The solution of information-deficiency problems of electroenergy technology optimal decision making 06 p0062 A75-28508 MINIOR Remote sensing applied to mine subsidence - Experience in Pennsylvania and the Midwest 07 p0121 A75-36809 Bureau of Mines research 1973. Summary of significant results in mining, metallurgy, and energy [PB-234733/4] 05 p0040 N75-15171
supply, distribution, and consumption systems on Baval bases. Volume 3: Assessment of total energy system applications at Naval facilities [AD-A003590] 08 p0202 N75-29550 Army installation energy requirements in CONUS [AD-A008951] 08 p0205 N75-30660 MILITARY SPACECRAFT Solar cell and array standardization for Air Force spacecraft 05 p0002 A75-10486 MILITARY TECHNOLOGY Air Force experience in the use of liquid hydrogen as an aircraft fuel 08 p0179 A75-44801 The 1974 AGARD Annual Meeting: The energy problem: Impacts on military research and development 06 p0075 N75-16977 MILITARY VEHICLES	The solution of information-deficiency problems of electroenergy technology optimal decision making 06 p0062 A75-28508 HINING Remote sensing applied to mine subsidence - Experience in Pennsylvania and the Midwest 07 p0121 A75-36809 Bureau of Mines research 1973. Summary of significant results in mining, metallurgy, and energy [PB-234733/4] 05 p0040 N75-15171 Puel and energy consumption in the coal industries [PB-237151/6] 06 p0088 N75-18744 Regional economics: A subset of simulation of the effects of coal-fired power development in the four corners region 06 p0107 N75-21153 The potential for developing Alaskan coals for
supply, distribution, and consumption systems on Haval bases. Volume 3: Assessment of total energy system applications at Naval facilities [AD-A003590] 08 p0202 N75-29550 Army installation energy requirements in CONUS [AD-A008951] 08 p0205 N75-30660 BILITARY SPACECRAPT Solar cell and array standardization for Air Porce spacecraft 05 p0002 A75-10486 BILITARY TECHNOLOGY Air Force experience in the use of liquid hydrogen as an aircraft fuel 08 p0179 A75-44801 The 1974 AGARD Annual Meeting: The energy problem: Impacts on military research and development 06 p0075 N75-16977	The solution of information-deficiency problems of electroenergy technology optimal decision making 06 p0062 A75-28508 MINIEG Remote sensing applied to mine subsidence - Experience in Pennsylvania and the Midwest 07 p0121 A75-36809 Bureau of Mines research 1973. Summary of significant results in mining, metallurgy, and energy [PB-234733/4] 05 p0040 M75-15171 Fuel and energy consumption in the coal industries [PB-237151/6] Regional economics: A subset of simulation of the effects of coal-fired power development in the four corners region 06 p0107 M75-21153 The potential for developing Alaskan coals for clean export fuels, phase 1 [PB-238539/1] 07 p0127 M75-21786
supply, distribution, and consumption systems on Haval bases. Volume 3: Assessment of total energy system applications at Naval facilities [AD-A003590] 08 p0202 N75-29550 Army installation energy requirements in CONUS [AD-A008951] 08 p0205 N75-30660 BILITARY SPACECRAFT Solar cell and array standardization for Air Porce spacecraft 05 p0002 A75-10486 BILITARY TECHNOLOGY Air Force experience in the use of liquid hydrogen as an aircraft fuel 08 p0179 A75-44801 The 1974 AGARD Annual Heeting: The energy problem: Impacts on military research and development 06 p0075 N75-16977 BILITARY VEHICLES Energy-related research and development in the United States Air Porce 06 p0075 N75-16979 BILITARI DEPOSITS Bureau of Hines research 1973. Summary of	The solution of information-deficiency problems of electroenergy technology optimal decision making 06 p0062 A75-28508 **MINING** Remote sensing applied to mine subsidence - Experience in Pennsylvania and the Midwest 07 p0121 A75-36809 Bureau of Mines research 1973. Summary of significant results in mining, metallurgy, and energy [PB-234733/4] 05 p0040 N75-15171 Fuel and energy consumption in the coal industries [PB-237151/6] Regional economics: A subset of simulation of the effects of coal-fired power development in the four corners region 06 p0107 N75-21153 The potential for developing Alaskan coals for clean export fuels, phase 1 [PB-238539/1] Economic system analysis of coal preconversion technology [PB-239383/3] 07 p0151 N75-25325
supply, distribution, and consumption systems on Baval bases. Volume 3: Assessment of total energy system applications at Naval facilities [AD-A003590] 08 p0202 N75-29550 Army installation energy requirements in CONUS [AD-A008951] 08 p0205 N75-30660 MILITARY SPACECRAFT Solar cell and array standardization for Air Porce spacecraft 05 p0002 A75-10486 MILITARY TECHNOLOGY Air Force experience in the use of liquid hydrogen as an aircraft fuel 08 p0179 A75-44801 The 1974 AGARD Annual Meeting: The energy problem: Impacts on military research and development 06 p0075 N75-16977 MILITARY VEHICLES Energy-related research and development in the United States Air Porce 06 p0075 N75-16979 MIMBERAL DEPOSITS Bureau of Mines research 1973. Summary of significant results in mining, metallurgy, and energy	The solution of information-deficiency problems of electroenergy technology optimal decision making 06 p0062 A75-28508 HINING Remote sensing applied to mine subsidence - Experience in Pennsylvania and the Midwest 07 p0121 A75-36809 Bureau of Mines research 1973. Summary of significant results in mining, metallurgy, and energy [PB-234733/4] 05 p0040 M75-15171 Fuel and energy consumption in the coal industries [PB-237151/6] 06 p0088 M75-18744 Regional economics: A subset of simulation of the effects of coal-fired power development in the four corners region 06 p0107 B75-21153 The potential for developing Alaskan coals for clean export fuels, phase 1 [PB-238539/1] BCONOmic system analysis of coal preconversion technology [PB-239383/3] 07 p0151 M75-25325 HINNESOTA A regional energy information system for
supply, distribution, and consumption systems on Baval bases. Volume 3: Assessment of total energy system applications at Naval facilities [AD-A003590] 08 p0202 N75-29550 Army installation energy requirements in CONUS [AD-A008951] 08 p0205 N75-30660 MILITARY SPACECRAFT 08 p0205 N75-30660 MILITARY SPACECRAFT 50lar cell and array standardization for Air Porce spacecraft 05 p0002 A75-10486 MILITARY TECHNOLOGY Air Force experience in the use of liquid hydrogen as an aircraft fuel 08 p0179 A75-44801 The d974 AGARD Annual Heeting: The energy problem: Impacts on military research and development 06 p0075 N75-16977 MILITARY VEHICLES Energy-related research and development in the United States Air Porce 06 p0075 N75-16979 MINERAL DEPOSITS Bureau of Mines research 1973. Summary of significant results in mining, metallurgy, and energy [PB-234733/4] 05 p0040 N75-15171 Assessment of uranium and thorium resources in the	The solution of information-deficiency problems of electroenergy technology optimal decision making 06 p0062 A75-28508 HIBIBG Remote sensing applied to mine subsidence - Experience in Pennsylvania and the Midwest 07 p0121 A75-36809 Bureau of Mines research 1973. Summary of significant results in mining, metallurgy, and energy [PB-234733/4] 05 p0040 N75-15171 Puel and energy consumption in the coal industries [PB-237151/6] 06 p0088 N75-18744 Regional economics: A subset of simulation of the effects of coal-fired power development in the four corners region 06 p0107 N75-21153 The potential for developing Alaskan coals for clean export fuels, phase 1 [PB-238539/1] BCONOMIC System analysis of coal preconversion technology [PB-239383/3] O7 p0151 N75-25325 HINDESOTA A regional energy information system for Minnesota: A preliminary design [PB-241124/7] 08 p0205 N75-30944
supply, distribution, and consumption systems on Baval bases. Volume 3: Assessment of total energy system applications at Naval facilities [AD-A003590] 08 p0202 N75-29550 Army installation energy requirements in CONUS [AD-A008951] 08 p0205 N75-30660 BILITARY SPACECRAPT Solar cell and array standardization for Air Porce spacecraft 05 p0002 A75-10486 BILITARY TECHNOLOGY Air Force experience in the use of liquid hydrogen as an aircraft fuel 08 p0179 A75-44801 The 1974 AGARD Annual Heeting: The energy problem: Impacts on military research and development 06 p0075 N75-16977 BILITARY VEHICLES Energy-related research and development in the United States Air Porce 06 p0075 N75-16979 BURENAL DEPOSITS Bureau of Hines research 1973. Summary of significant results in mining, metallurgy, and energy [PB-230733/4] O5 p0040 N75-15171 Assessment of uranium and thorium resources in the United States and the effect of policy alternatives	The solution of information-deficiency problems of electroenergy technology optimal decision making 06 p0062 A75-28508 **MINING** Remote sensing applied to mine subsidence - Experience in Pennsylvania and the Midwest 07 p0121 A75-36809 Bureau of Mines research 1973. Summary of significant results in mining, metallurgy, and energy [PB-234733/4] 05 p0040 N75-15171 Fuel and energy consumption in the coal industries [PB-237151/6] Regional economics: A subset of simulation of the effects of coal-fired power development in the four corners region 06 p0107 N75-21153 The potential for developing Alaskan coals for clean export fuels, phase 1 [PB-238539/1] Economic system analysis of coal preconversion technology [PB-239383/3] 07 p0151 N75-25325 **HINESOTA** A regional energy information system for Minnesota: A preliminary design [PB-241124/7] **NERORS** Performance of a laser mirror heat pipe
supply, distribution, and consumption systems on Baval bases. Volume 3: Assessment of total energy system applications at Naval facilities (AD-A003590) 08 p0202 N75-29550 Army installation energy requirements in CONUS (AD-A008951) 08 p0205 N75-30660 BILITARY SPACECRAPT OS p0002 A75-10486 BILITARY SPACECRAPT O5 p0002 A75-10486 BILITARY TECHNOLOGY Air Force experience in the use of liquid hydrogen as an aircraft fuel 08 p0179 A75-44801 The 1974 AGARD Annual Heeting: The energy problem: Impacts on military research and development 06 p0075 N75-16977 BILITARY VEHICLES Energy-related research and development in the United States Air Porce 06 p0075 N75-16979 BIVERAL DEPOSITS Bureau of Hines research 1973. Summary of significant results in mining, metallurgy, and energy (PB-230733/4) 05 p0040 N75-15171 Assessment of uranium and thorium resources in the United States and the effect of policy alternatives (PB-238658/9) 07 p0143 N75-24133 Mineral resources and the environment energy conservation and energy policy	The solution of information-deficiency problems of electroenergy technology optimal decision making 06 p0062 A75-28508 **MINING** Remote sensing applied to mine subsidence - Experience in Pennsylvania and the Midwest 07 p0121 A75-36809 Bureau of Mines research 1973. Summary of significant results in mining, metallurgy, and energy [PB-234733/4] 05 p0040 N75-15171 Fuel and energy consumption in the coal industries [PB-237151/6] Regional economics: A subset of simulation of the effects of coal-fired power development in the four corners region 06 p0107 N75-21153 The potential for developing Alaskan coals for clean export fuels, phase 1 [PB-238539/1] BConomic system analysis of coal preconversion technology [PB-239383/3] 07 p0151 N75-25325 **HINDESOTA** A regional energy information system for Minnesota: A preliminary design [PB-241124/7] **MIRRORS** Performance of a laser mirror heat pipe [ASME PAPER 74-WA/HT-61] Use of flexible reflective surfaces for solar energy concentration
supply, distribution, and consumption systems on Baval bases. Volume 3: Assessment of total energy system applications at Naval facilities (AD-A003590) 08 p0202 N75-29550 Army installation energy requirements in CONUS (AD-A008951) 08 p0205 N75-30660 BILITARY SPACECRAPT OS p0002 A75-10486 BILITARY SPACECRAPT O5 p0002 A75-10486 BILITARY TECHNOLOGY Air Force experience in the use of liquid hydrogen as an aircraft fuel 08 p0179 A75-44801 The 1974 AGARD Annual Heeting: The energy problem: Impacts on military research and development 06 p0075 N75-16977 BILITARY VEHICLES Energy-related research and development in the United States Air Porce 06 p0075 N75-16979 BIVERAL DEPOSITS Bureau of Hines research 1973. Summary of significant results in mining, metallurgy, and energy (PB-230733/4) 05 p0040 N75-15171 Assessment of uranium and thorium resources in the United States and the effect of policy alternatives (PB-238658/9) 07 p0143 N75-24133 Mineral resources and the environment energy conservation and energy policy (PB-239579/6) 07 p0153 N75-26486 Mineral resources and the environment. Appendix to section 1: Report of panel on materials	The solution of information-deficiency problems of electroenergy technology optimal decision making 06 p0062 A75-28508 **MINING** Remote sensing applied to mine subsidence - Experience in Pennsylvania and the Midwest 07 p0121 A75-36809 Bureau of Mines research 1973. Summary of significant results in mining, metallurgy, and energy [PB-234733/4] Fuel and energy consumption in the coal industries [PB-237151/6] Regional economics: A subset of simulation of the effects of coal-fired power development in the four corners region 06 p0107 B75-21153 The potential for developing Alaskan coals for clean export fuels, phase 1 [PB-238539/1] Economic system analysis of coal preconversion technology [PB-239383/3] O7 p0151 B75-25325 #################################
supply, distribution, and consumption systems on Baval bases. Volume 3: Assessment of total energy system applications at Naval facilities [AD-A003590] Army installation energy requirements in CONUS [AD-A008951] BILITARY SPACECRAFT Solar cell and array standardization for Air Force spacecraft 05 p0002 A75-10486 BILITARY TECHNOLOGY Air Force experience in the use of liquid hydrogen as an aircraft fuel 08 p0179 A75-44801 The 1974 AGARD Annual Heeting: The energy problem: Impacts on military research and development 06 p0075 N75-16977 BILITARY VEHICLES Energy-related research and development in the United States Air Force 06 p0075 N75-16979 BINERAL DEPOSITS Bureau of Mines research 1973. Summary of significant results in mining, metallurgy, and energy [PB-230733/4] Assessment of uranium and thorium resources in the United States and the effect of policy alternatives [PB-230568/9] Mineral resources and the environment energy conservation and energy policy [PB-239579/6] Nineral resources and the environment. Appendix to section 1: Report of panel on materials conservation through technology [PB-239580/4] 07 p0153 N75-26487	The solution of information-deficiency problems of electroenergy technology optimal decision making 06 p0062 A75-28508 HINTEG Remote sensing applied to mine subsidence - Experience in Pennsylvania and the Midwest 07 p0121 A75-36809 Bureau of Bines research 1973. Summary of significant results in mining, metallurgy, and energy [PB-234733/4] 05 p0040 N75-15171 Puel and energy consumption in the coal industries [PB-237151/6] Regional economics: A subset of simulation of the effects of coal-fired power development in the four corners region 06 p0107 N75-21153 The potential for developing Alaskan coals for clean export fuels, phase 1 [PB-238539/1] Bconomic system analysis of coal preconversion technology [PB-239383/3] 07 p0127 N75-21786 Energy distribution in the concentration field of a two-mirror device with a paraboloidal back reflector 07 p0122 A75-37157
supply, distribution, and consumption systems on Baval bases. Volume 3: Assessment of total energy system applications at Naval facilities [AD-A003590] 08 p0202 N75-29550 Army installation energy requirements in CONUS [AD-A008951] 08 p0205 N75-30660 BILITARY SPACECRAFT Solar cell and array standardization for Air Porce spacecraft 05 p0002 A75-10486 BILITARY TECHNOLOGY Air Force experience in the use of liquid hydrogen as an aircraft fuel 08 p0179 A75-44801 The d1974 AGARD Annual Heeting: The energy problem: Impacts on military research and development 06 p0075 N75-16977 BILITARY VEHICLES Energy-related research and development in the United States Air Porce 06 p0075 N75-16979 BIBERAL DEPOSITS Bureau of Mines research 1973. Summary of significant results in mining, metallurgy, and energy [PB-234733/4] 05 p0040 N75-15171 Assessment of uranium and thorium resources in the United States and the effect of policy alternatives [PB-238658/9] 07 p0143 N75-24133 Hineral resources and the environment energy conservation and energy policy [PB-239579/6] Nineral resources and the environment. Appendix to section 1: Report of panel on materials conservation through technology	The solution of information-deficiency problems of electroenergy technology optimal decision making 06 p0062 A75-28508 **MINING** Remote sensing applied to mine subsidence Experience in Pennsylvania and the Midwest 07 p0121 A75-36809 Bureau of Mines research 1973. Summary of significant results in mining, metallurgy, and energy [PB-234733/4] 05 p0040 N75-15171 Puel and energy consumption in the coal industries [PB-237151/6] 06 p0088 N75-18744 Regional economics: A subset of simulation of the effects of coal-fired power development in the four corners region 06 p0107 N75-21153 The potential for developing Alaskan coals for clean export fuels, phase 1 [PB-238539/1] BCONOMIC System analysis of coal preconversion technology [PB-239383/3] ##################################

A nearly perfect solar energy concentrator made up	The Shall matural case airchin and other I T l
of tapered mirror facets with constant	The Shell natural gas airship, and other L.T.A. activities by Merospace Developments
transverse curvature 08 p0180 A75-45062	[AIAA PAPER 75-932] 07 p0121 A75-37008 Purther development of scientific research in the
MISSION PLANNING	field of geology and of the survey and
Mission applications of electric propulsion (AIAA PAPER 74-1085) 05 p0010 A75-11284	exploration of petroleum and gas
HODELS OF POOLS ELS-11264	[JPRS-63414] 05 p0027 875-11410 Offshore investigation: Producible shut-in
Application of fast sparse-matrix techniques and	leases, January 1974, phase 1 potentially
an energy estimation model for large transporation networks	productive oil and gas wells 05 p0027 N75-11457
08 p0201 H75-28967	Offshore investigation: Producible shut-in leases
MODULES Advanced heat source concepts module design	as of January 1974, phase 2 an estimation of natural gas reserves in offshore wells
for space electric power generation	05 p0027 H75-11458
[HLH-2134] 05 p0024 H75-10591 HOLBCULAR DIFFUSION	Bvaluation of coal-gasification technology. Part 1: Pipeline-W quality gas
Effect of diffusion on concentration profiles in a	[PB-234036/2] 05 p0034 H75-13396
solar pond 08 p0167 175-39412	Procedure for preparation for shipment of natural gas storage vessel
MOLECULAR GASES	[HASA-CR-141455] 05 p0036 H75-14135
Conversion of electrical energy into laser radiation energy in high pressure mixtures of	Fatural gas fields, Cook Inlet Basin, Alaska [PB-235767/1] 06 p0066 H75-16071
molecular gases	Total energy supply and demand, volume 1, chapter 6
07 p0133 H75-22722 HOLBCULAR INTERACTIONS	natural gas, economic analysis 06 p0067 N75-16082
Workshop in Gas-Phase Molecular Interactions and	Radiological surveillance program for the project
the Nation's Energy Problem [PB-236712/6] 06 p0086 H75-18718	Gasbuggy production test, 15 May - 6 November 1973 [NERC-LV-539-30] 06 p0073 N75-16337
HOTORS	Progress and problems in developing nuclear and
nechanical thermal motor	other experimental techniques for recovering natural gas in the Rocky Mountain area
MULTILAYER INSULATION	[B-164105] 06 p0075 N75-16975
Solar electric propulsion system thermal analysis including heat pipes and multilayer insulation	Otilizing fuel more efficiently in reheating and heat treatment furnaces
[NASA-CR-120770] 07 p0147 H75-24842	[BLL-H-21957-(5828.4F)] 06 p0080 N75-17467
MULTISPECTRAL BAND SCANNERS Multispectral data systems for energy related	Experience in the first step of the mastery of the U-25 device
problems strip mining and power plant site	06 p0081 #75-17793
monitoring 07 p0118 A75-35464	OCS oil and gas: An environmental assessment, Volume 3 effect of natural phenomena on OCS
Net radiation and other energy-related maps from	gas and oil development
remotely sensed imagery 07 p0121 A75-36811	06 p0083 N75-17836 OCS oil and gas: An environmental assessment,
MULTISPECTRAL PHOTOGRAPHY	Volume 1
MULTISPECTRAL PROTOGRAPHY Relationships of earth fracture systems to	Volume 1 06 p0083 H75-17837
MULTISPECTRAL PHOTOGRAPHY	Volume 1 06 p0083 N75-17837 OCS oil and gas: An environmental assessment, Volume 2
MULTISPECTRAL PROTOGRAPHY Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] 06 p0089 H75-18759	Volume 1 06 p0083 H75-17837 OCS oil and gas: An environmental assessment, Volume 2 06 p0084 H75-17838 OCS oil and gas: An environmental assessment,
MULTISPECTRAL PROTOGRAPHY Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] 06 p0089 H75-18759	Volume 1 06 p0083 B75-17837 OCS oil and gas: An environmental assessment, Volume 2 06 p0084 B75-17838 OCS oil and gas: An environmental assessment, volume 4
HULTISPECTBAL PHOTOGRAPHY Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] N HASA PROGRAMS NASA objectives for improved solar power plants	Volume 1 06 p0083 B75-17837 OCS oil and gas: An environmental assessment, Volume 2 06 p0084 B75-17838 OCS oil and gas: An environmental assessment, Volume 4 06 p0084 B75-17839 OCS oil and gas: An environmental assessment,
HULTISPECTRAL PROTOGRAPHY Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] N HASA PROGRAMS NASA objectives for improved solar power plants 05 p0002 A75-10485	Volume 1 06 p0083 B75-17837 OCS oil and gas: An environmental assessment, Volume 2 06 p0084 B75-17838 OCS oil and gas: An environmental assessment, Volume 4 06 p0084 B75-17839 OCS oil and gas: An environmental assessment, Volume 5
HULTISPECTBAL PHOTOGRAPHY Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] N HASA PROGRAMS NASA objectives for improved solar power plants 05 p0002 A75-10485 Mission applications of electric propulsion [AIAA PAPER 74-1085] 05 p0010 A75-11284	Volume 1 06 p0083 H75-17837 OCS oil and gas: An environmental assessment, Volume 2 06 p0084 H75-17838 OCS oil and gas: An environmental assessment, OCS oil and gas: An environmental assessment, Volume 4 O6 p0084 H75-17839 OCS oil and gas: An environmental assessment, Volume 5 O6 p0084 H75-17840
Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] 06 p0089 H75-18759 N HASA PROGRAMS WASA objectives for improved solar power plants 05 p0002 A75-10485 Wission applications of electric propulsion [AIAA PAPER 74-1085] The application of aerospace technology in the	Volume 1 06 p0083 B75-17837 OCS oil and gas: An environmental assessment, Volume 2 06 p0084 B75-17838 OCS oil and gas: An environmental assessment, Volume 4 06 p0084 B75-17839 OCS oil and gas: An environmental assessment, Volume 5 06 p0084 B75-17840 Batural gas in Alabama [PB-236582/3] 06 p0088 B75-18737
Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] N HASA PROGRAMS NASA objectives for improved solar power plants 05 p0002 A75-10485 Mission applications of electric propulsion [AIAA PAPER 74-1085] The application of aerospace technology in the cryogenics field 06 p0048 A75-23239	Volume 1 06 p0083 B75-17837 OCS oil and gas: An environmental assessment, Volume 2 06 p0084 B75-17838 OCS oil and gas: An environmental assessment, volume 4 06 p0084 B75-17839 OCS oil and gas: An environmental assessment, volume 5 06 p0084 B75-17840 Batural gas in Alabama [PB-236582/3] Relationships of earth fracture systems to productivity of a gas storage reservoir
Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] N HASA FROGRAMS NASA objectives for improved solar power plants 05 p0002 A75-10485 Mission applications of electric propulsion [AIAA PAPER 74-1085] The application of aerospace technology in the cryogenics field 06 p0048 A75-23239 Summary of NASA-Lewis Research Center solar	Volume 1 06 p0083 B75-17837 OCS oil and gas: An environmental assessment, Volume 2 06 p0084 B75-17838 OCS oil and gas: An environmental assessment, volume 4 06 p0084 B75-17839 OCS oil and gas: An environmental assessment, volume 5 06 p0084 B75-17840 Natural gas in Alabama [PB-236582/3] Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] 06 p0089 B75-18759
Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] N HASA PROGRAMS NASA objectives for improved solar power plants 05 p0002 A75-10485 Mission applications of electric propulsion [AIAA PAPER 74-1085] 05 p0010 A75-11284 The application of aerospace technology in the cryogenics field 06 p0048 A75-23239 Summary of NASA-Lewis Research Center solar heating and cooling and wind energy programs 07 p0123 A75-37240	Volume 1 06 p0083 B75-17837 OCS oil and gas: An environmental assessment, Volume 2 06 p0084 B75-17838 OCS oil and gas: An environmental assessment, volume 4 06 p0084 B75-17839 OCS oil and gas: An environmental assessment, volume 5 06 p0084 B75-17840 Batural gas in Alabama [PB-236582/3] Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] A realistic view of US natural gas supply [PB-23894/11] OF p0134 B75-22898
Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] N HASA PROGRAMS WASA objectives for improved solar power plants 05 p0002 A75-10485 Wission applications of electric propulsion [AIAA PAPER 74-1085] The application of aerospace technology in the cryogenics field 06 p0048 A75-23239 Summary of NASA-Lewis Research Center solar heating and cooling and wind energy programs 07 p0123 A75-37240 WASA thermionic converter research and technology	Volume 1 06 p0083 B75-17837 OCS oil and gas: An environmental assessment, Volume 2 06 p0084 B75-17838 OCS oil and gas: An environmental assessment, volume 4 06 p0084 B75-17839 OCS oil and gas: An environmental assessment, volume 5 06 p0084 B75-17840 Natural gas in Alabama [PB-236582/3] Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] A realistic view of US natural gas supply [PB-238964/1] Of p0134 B75-22898 Stratigraphy, sedimentology and oil and gas
Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] N HASA PROGRAMS NASA objectives for improved solar power plants 05 p0002 A75-10485 Mission applications of electric propulsion [AIAA PAPER 74-1085] 05 p0010 A75-11284 The application of aerospace technology in the cryogenics field 06 p0048 A75-23239 Summary of NASA-Lewis Research Center solar heating and cooling and wind energy programs 07 p0123 A75-37240 WASA thermionic converter research and technology program nuclear electric propulsion application	Volume 1 06 p0083 B75-17837 OCS oil and gas: An environmental assessment, Volume 2 06 p0084 B75-17838 OCS oil and gas: An environmental assessment, volume 4 06 p0084 B75-17839 OCS oil and gas: An environmental assessment, volume 5 06 p0084 B75-17840 Batural gas in Alabama [PB-236582/3] Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] A realistic view of US natural gas supply [PB-238964/1] Stratigraphy, sedimentology and oil and gas geology of the Lower Cretaceous in central Alberta 07 p0137 B75-22961
Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] N NASA PROGRAMS NASA objectives for improved solar power plants 05 p0002 A75-10485 Mission applications of electric propulsion [AIAA PAPER 74-1085] The application of aerospace technology in the cryogenics field 06 p0048 A75-23239 Summary of NASA-Lewis Research Center solar heating and cooling and wind energy programs 07 p0123 A75-37240 NASA thermionic converter research and technology program nuclear electric propulsion application 08 p0188 A75-45956	Volume 1 06 p0083 B75-17837 OCS oil and gas: An environmental assessment, Volume 2 06 p0084 B75-17838 OCS oil and gas: An environmental assessment, volume 4 06 p0084 B75-17839 OCS oil and gas: An environmental assessment, volume 5 06 p0084 B75-17840 Natural gas in Alabama [PB-236582/3] Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] A realistic view of US natural gas supply [PB-238964/1] Stratigraphy, sedimentology and oil and gas geology of the Lower Cretaceous in central Alberta O7 p0137 B75-22961 Vulnerability of natural gas systems
Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] N NASA PROGRAMS NASA objectives for improved solar power plants 05 p0002 A75-10485 Mission applications of electric propulsion [AIAA PAPER 74-1085] The application of aerospace technology in the cryogenics field 06 p0048 A75-23239 Summary of NASA-Lewis Research Center solar heating and cooling and wind energy programs 07 p0123 A75-37240 NASA thermionic converter research and technology program nuclear electric propulsion application 08 p0188 A75-45956 Plans and status of the NASA-Lewis Research Center wind energy project	Volume 1 06 p0083 B75-17837 OCS oil and gas: An environmental assessment, Volume 2 06 p0084 B75-17838 OCS oil and gas: An environmental assessment, volume 4 06 p0084 B75-17839 OCS oil and gas: An environmental assessment, volume 5 06 p0084 B75-17840 Batural gas in Alabama [PB-236582/3] 06 p0088 B75-18737 Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] 10 p0134 B75-18759 A realistic view of US natural gas supply [PB-238964/1] Stratigraphy, sedimentology and oil and gas geology of the Lower Cretaceous in central Alberta 07 p0137 B75-22961 Vulnerability of natural gas systems industrial management and operations [AD-A007583] 07 p0144 B75-24143
Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] N HASA PROGRAMS WASA objectives for improved solar power plants 05 p0002 A75-10485 Mission applications of electric propulsion [AIAA PAPER 74-1085] The application of aerospace technology in the cryogenics field 06 p0048 A75-23239 Summary of NASA-Lewis Research Center solar heating and cooling and wind energy programs 07 p0123 A75-37240 WASA thermionic converter research and technology programs nuclear electric propulsion application 08 p0188 A75-45956 Plans and status of the WASA-Lewis Research Center wind energy project	Volume 1 06 p0083 B75-17837 OCS oil and gas: An environmental assessment, Volume 2 06 p0084 B75-17838 OCS oil and gas: An environmental assessment, volume 4 06 p0084 B75-17839 OCS oil and gas: An environmental assessment, volume 5 06 p0084 B75-17840 Batural gas in Alabama [PB-236582/3] Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] A realistic view of US natural gas supply [PB-238964/1] Stratigraphy, sedimentology and oil and gas geology of the Lower Cretaceous in central Alberta 07 p0134 B75-22961 Vulnerability of natural gas systems industrial management and operations [AD-A007583] Atlantic outer continental shelf energy resources:
Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] N NASA PROGRAMS NASA objectives for improved solar power plants 05 p0002 A75-10485 Mission applications of electric propulsion [AIAA PAPER 74-1085] 05 p0010 A75-11284 The application of aerospace technology in the cryogenics field 06 p0048 A75-23239 Summary of NASA-Lewis Research Center solar heating and cooling and wind energy programs 07 p0123 A75-37240 NASA thermionic converter research and technology program nuclear electric propulsion application 08 p0188 A75-45956 Plans and status of the NASA-Lewis Research Center wind energy project 08 p0197 A75-47802 Proceedings of the first 1974 Technology Transfer Conference	Volume 1 06 p0083 B75-17837 OCS oil and gas: An environmental assessment, Volume 2 06 p0084 B75-17838 OCS oil and gas: An environmental assessment, volume 4 06 p0084 B75-17839 OCS oil and gas: An environmental assessment, volume 5 06 p0084 B75-17840 Batural gas in Alabama [PB-236582/3] Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] A realistic view of US natural gas supply [PB-238964/1] Stratigraphy, sedimentology and oil and gas geology of the Lower Cretaceous in central Alberta 07 p0137 B75-22961 Vulnerability of natural gas systems industrial management and operations [AD-A007583] Atlantic outer continental shelf energy resources: An economic analysis [COB-75-10330/9] 07 p0152 B75-26484
Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] N NASA PROGRAMS NASA objectives for improved solar power plants 05 p0002 A75-10485 Mission applications of electric propulsion [AIAA PAPER 74-1085] The application of aerospace technology in the cryogenics field 06 p0048 A75-23239 Summary of NASA-Lewis Research Center solar heating and cooling and wind energy programs 07 p0123 A75-37240 WASA thermionic converter research and technology programs nuclear electric propulsion application 08 p0188 A75-45956 Plans and status of the NASA-Lewis Research Center wind energy project 08 p0197 A75-47802 Proceedings of the first 1974 Technology Transfer Conference [NASA-CR-142119] 06 p0078 N75-17188	Volume 1 06 p0083 B75-17837 OCS oil and gas: An environmental assessment, Volume 2 06 p0084 B75-17838 OCS oil and gas: An environmental assessment, volume 4 06 p0084 B75-17839 OCS oil and gas: An environmental assessment, volume 5 06 p0084 B75-17840 Batural gas in Alabama [PB-236582/3] Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] A realistic view of US natural gas supply [PB-238964/1] Stratigraphy, sedimentology and oil and gas geology of the Lower Cretaceous in central Alberta O7 p0134 B75-22961 Vulnerability of natural gas systems industrial management and operations [AD-A007583] Atlantic outer continental shelf energy resources: An economic analysis [COB-75-10330/9] Fineral resources and the environment. Appendix
Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] N NASA PROGRAMS NASA objectives for improved solar power plants 05 p0002 A75-10485 Mission applications of electric propulsion [AIAN PAPER 74-1085] The application of aerospace technology in the cryogenics field 06 p0048 A75-23239 Summary of NASA-Lewis Research Center solar heating and cooling and wind energy programs 07 p0123 A75-37240 NASA thermionic converter research and technology program nuclear electric propulsion application 08 p0188 A75-45956 Plans and status of the NASA-Lewis Research Center wind energy project 08 p0197 A75-47802 Proceedings of the first 1974 Technology Transfer Conference [NASA-CR-142119] Transfer of space technology to industry 06 p0078 N75-17188	Volume 1 06 p0083 B75-17837 OCS oil and gas: An environmental assessment, Volume 2 06 p0084 B75-17838 OCS oil and gas: An environmental assessment, volume 4 06 p0084 B75-17839 OCS oil and gas: An environmental assessment, volume 5 06 p0084 B75-17840 Batural gas in Alabama [PB-236582/3] 06 p0088 B75-18737 Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] Of p0089 B75-18759 A realistic view of US natural gas supply [PB-238964/1] Stratigraphy, sedimentology and oil and gas geology of the Lower Cretaceous in central Alberta 07 p0137 B75-2288 Vulnerability of natural gas systems industrial management and operations [AD-A007583] Atlantic outer continental shelf energy resources: An economic analysis [COH-75-10330/9] Wineral resources and the environment. Appendix to section 2: Report of panel on estimation of mineral reserves and resources
Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] N HASA FROGRAMS NASA objectives for improved solar power plants 05 p0002 A75-10485 Mission applications of electric propulsion [AIAA PAPER 74-1085] The application of aerospace technology in the cryogenics field 06 p0048 A75-23239 Summary of NASA-Lewis Research Center solar heating and cooling and wind energy programs 07 p0123 A75-37240 WASA thermionic converter research and technology program nuclear electric propulsion application 08 p0188 A75-45956 Plans and status of the NASA-Lewis Research Center wind energy project 08 p0197 A75-47802 Proceedings of the first 1974 Technology Transfer Conference [NASA-CR-142119] Transfer of space technology to industry	Volume 1 06 p0083 B75-17837 OCS oil and gas: An environmental assessment, Volume 2 06 p0084 B75-17838 OCS oil and gas: An environmental assessment, volume 4 06 p0084 B75-17839 OCS oil and gas: An environmental assessment, volume 5 06 p0084 B75-17840 Batural gas in Alabama [PB-236582/3] Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] A realistic view of US natural gas supply [PB-238964/1] Stratigraphy, sedimentology and oil and gas geology of the Lower Cretaceous in central Alberta 07 p0137 B75-22961 Vulnerability of natural gas systems industrial management and operations [AD-A007583] Atlantic outer continental shelf energy resources: An economic analysis [COM-75-10330/9] Bineral resources and the environment. Appendix to section 2: Report of panel on estimation of
Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] N NASA PROGRAMS NASA objectives for improved solar power plants 05 p0002 A75-10485 Mission applications of electric propulsion [AIAN PAPER 74-1085] The application of aerospace technology in the cryogenics field 06 p0048 A75-23239 Summary of NASA-Lewis Research Center solar heating and cooling and wind energy programs 07 p0123 A75-37240 NASA thermionic converter research and technology program nuclear electric propulsion application 08 p0188 A75-45956 Plans and status of the NASA-Lewis Research Center wind energy project 08 p0197 A75-47802 Proceedings of the first 1974 Technology Transfer Conference [NASA-CR-142119] Transfer of space technology to industry 06 p0078 N75-17188 Transfer of space technology to industry 06 p0078 N75-17195 The NASA-Lewis/EEDA solar heating and cooling technology program project planning/energy policy	Volume 1 06 p0083 B75-17837 OCS oil and gas: An environmental assessment, Volume 2 06 p0084 B75-17838 OCS oil and gas: An environmental assessment, volume 4 06 p0084 B75-17839 OCS oil and gas: An environmental assessment, volume 5 06 p0084 B75-17840 Batural gas in Alabama [PB-236582/3] Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] A realistic view of US natural gas supply [PB-238964/1] Stratigraphy, sedimentology and oil and gas geology of the Lower Cretaceous in central Alberta 07 p0134 B75-22898 Vulnerability of natural gas systems industrial management and operations [AD-A007583] Atlantic outer continental shelf energy resources: An economic analysis [COB-75-10330/9] Wineral resources and the environment. Appendix to section 2: Report of panel on estimation of mineral resources and the environment. Appendix to section 4: Report of panel on demand for
Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] N HASA PROGRAMS NASA objectives for improved solar power plants 05 p0002 A75-10485 Mission applications of electric propulsion [AIAA PAPER 74-1085] The application of aerospace technology in the cryogenics field 06 p0048 A75-23239 Summary of NASA-Lewis Research Center solar heating and cooling and wind energy programs 07 p0123 A75-37240 WASA thermionic converter research and technology program nuclear electric propulsion application 08 p0188 A75-45956 Plans and status of the NASA-Lewis Research Center wind energy project 08 p0197 A75-47802 Proceedings of the first 1974 Technology Transfer Conference [NASA-CR-142119] Transfer of space technology to industry 06 p0078 N75-17188 Transfer of space technology to industry 06 p0078 N75-17195 The NASA-Lewis/EEDA solar heating and cooling technology program project planning/energy policy [NASA-TH-X-71800] 08 p0210 N75-32592 Incorporating energy conservation techniques in	Volume 1 06 p0083 B75-17837 OCS oil and gas: An environmental assessment, Volume 2 06 p0084 B75-17838 OCS oil and gas: An environmental assessment, volume 4 06 p0084 B75-17839 OCS oil and gas: An environmental assessment, volume 5 06 p0084 B75-17840 Natural gas in Alabama [PB-236582/3] Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] A realistic view of US natural gas supply [PB-238964/1] Stratigraphy, sedimentology and oil and gas geology of the Lower Cretaceous in central Alberta 07 p0137 B75-22898 Vulnerability of natural gas systems industrial management and operations [AD-8007583] Atlantic outer continental shelf energy resources: An economic analysis [COH-75-10330/9] Mineral resources and the environment. Appendix to section 2: Report of panel on estimation of mineral resources and the environment. Appendix to section 4: Report of panel on demand for fuel and mineral resources [PB-239581/2] Mineral resources and the environment. Appendix to section 4: Report of panel on demand for fuel and mineral resources [PB-239583/8] 07 p0153 B75-26490
Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] 06 p0089 N75-18759 N NASA PROGRAMS NASA objectives for improved solar power plants 05 p0002 A75-10485 Mission applications of electric propulsion [AIAA PAPER 74-1085] 05 p0010 A75-11284 The application of aerospace technology in the cryogenics field 06 p0048 A75-23239 Summary of NASA-Lewis Research Center solar heating and cooling and wind energy programs 07 p0123 A75-37240 WASA thermionic converter research and technology program nuclear electric propulsion application 08 p0188 A75-45956 Plans and status of the NASA-Lewis Research Center wind energy project 08 p0197 A75-47802 Proceedings of the first 1974 Technology Transfer Conference [NASA-CR-142119] 06 p0078 N75-17188 Transfer of space technology to industry 06 p0078 N75-17195 The NASA-Lewis/EEDA solar heating and cooling technology program project planning/energy policy [NASA-TH-X-71800] 08 p0210 N75-32592 Incorporating energy conservation techniques in the operation of existing LeRC R and B facilities	Volume 1 06 p0083 B75-17837 OCS oil and gas: An environmental assessment, Volume 2 06 p0084 B75-17838 OCS oil and gas: An environmental assessment, volume 4 06 p0084 B75-17839 OCS oil and gas: An environmental assessment, volume 5 06 p0084 B75-17840 Batural gas in Alabama [PB-236582/3] Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] A realistic view of US natural gas supply [PB-238964/1] Stratigraphy, sedimentology and oil and gas geology of the Lower Cretaceous in central Alberta 07 p0137 B75-2288 Vulnerability of natural gas systems industrial management and operations [AD-A007583] Atlantic outer continental shelf energy resources: An economic analysis [COH-75-10330/9] Bineral resources and the environment. Appendix to section 2: Report of panel on estimation of mineral resources and the environment. Appendix to section 4: Report of panel on demand for fuel and mineral resources [PB-239583/8] BER: Ultimate recovery vs rate. A reservoir
Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] N HASA PROGRAMS NASA objectives for improved solar power plants 05 p0002 A75-10485 Mission applications of electric propulsion [AIAA PAPER 74-1085] The application of aerospace technology in the cryogenics field 06 p0048 A75-23239 Summary of NASA-Lewis Research Center solar heating and cooling and wind energy programs 07 p0123 A75-37240 WASA thermionic converter research and technology program nuclear electric propulsion application 08 p0188 A75-45956 Plans and status of the NASA-Lewis Research Center wind energy project 08 p0197 A75-47802 Proceedings of the first 1974 Technology Transfer Conference [NASA-CR-142119] Transfer of space technology to industry 06 p0078 N75-17188 Transfer of space technology to industry 06 p0078 N75-17195 The NASA-Lewis/EEDA solar heating and cooling technology program project planning/energy policy [NASA-TH-X-71800] 08 p0210 N75-32592 Incorporating energy conservation techniques in	Volume 1 06 p0083 B75-17837 OCS oil and gas: An environmental assessment, Volume 2 06 p0084 B75-17838 OCS oil and gas: An environmental assessment, Volume 4 06 p0084 B75-17839 OCS oil and gas: An environmental assessment, Volume 5 06 p0084 B75-17840 Natural gas in Alabama [PB-236582/3] Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] A realistic view of US natural gas supply [PB-238964/1] Stratigraphy, sedimentology and oil and gas geology of the Lower Cretaceous in central Alberta 07 p0137 B75-22898 Vulnerability of natural gas systems industrial management and operations [AD-8007583] Atlantic outer continental shelf energy resources: An economic analysis [COH-75-10330/9] Mineral resources and the environment. Appendix to section 2: Report of panel on estimation of mineral resources and the environment. Appendix to section 4: Report of panel on demand for fuel and mineral resources [PB-239581/2] Mineral resources and the environment. Appendix to section 4: Report of panel on demand for fuel and mineral resources [PB-239583/8] MER: Ultimate recovery vs rate. A reservoir simulation study. Volume 1 oil and gas production
Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] N NASA PROGRAMS NASA objectives for improved solar power plants 05 p0002 A75-10485 Mission applications of electric propulsion [AIAA PAPER 74-1085] The application of aerospace technology in the cryogenics field 06 p0048 A75-23239 Summary of NASA-Lewis Research Center solar heating and cooling and wind energy programs 07 p0123 A75-37240 NASA thermionic converter research and technology program nuclear electric propulsion application 08 p0188 A75-45956 Plans and status of the NASA-Lewis Research Center wind energy project 08 p0197 A75-47802 Proceedings of the first 1974 Technology Transfer Conference [NASA-CR-142119] Transfer of space technology to industry 06 p0078 N75-17188 The NASA-Lewis/EEDA solar heating and cooling technology program project planning/energy policy [NASA-TH-I-71800] Incorporating energy conservation techniques in the operation of existing LeRC R and D facilities energy policy/NASA programs [NASA-TH-I-71813] NATIONS	Volume 1 06 p0083 B75-17837 OCS oil and gas: An environmental assessment, Volume 2 06 p0084 B75-17838 OCS oil and gas: An environmental assessment, volume 4 06 p0084 B75-17839 OCS oil and gas: An environmental assessment, volume 5 06 p0084 B75-17840 Batural gas in Alabama [PB-236582/3] Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] A realistic view of US natural gas supply [PB-238964/1] Stratigraphy, sedimentology and oil and gas geology of the Lower Cretaceous in central Alberta 07 p0137 B75-2288 Vulnerability of natural gas systems industrial management and operations [AD-A007583] Atlantic outer continental shelf energy resources: An economic analysis [COH-75-10330/9] Wineral resources and the environment. Appendix to section 2: Report of panel on estimation of mineral resources and the environment. Appendix to section 4: Report of panel on demand for fuel and mineral resources [PB-239581/2] Wineral resources and the environment. Appendix to section 4: Report of panel on demand for fuel and mineral resources [PB-239583/8] BER: Ultimate recovery vs rate. A reservoir simulation study. Volume 1 oil and gas production [PB-239767/7] O7 p0157 B75-26526
RULTISPECTBAL PHOTOGRAPHY Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] N HASA PROGRAMS NASA objectives for improved solar power plants 05 p0002 A75-10485 Mission applications of electric propulsion [AIAA PAPER 74-1085] The application of aerospace technology in the cryogenics field 06 p0048 A75-23239 Summary of NASA-Lewis Research Center solar heating and cooling and wind energy programs 07 p0123 A75-37240 WASA thermionic converter research and technology program nuclear electric propulsion application 08 p0188 A75-45956 Plans and status of the NASA-Lewis Research Center wind energy project 08 p0197 A75-47802 Proceedings of the first 1974 Technology Transfer Conference [NASA-CR-142119] Transfer of space technology to industry 06 p0078 N75-17188 Transfer of space technology to industry 06 p0078 N75-17195 The NASA-Lewis/EBDA solar heating and cooling technology program project planning/energy policy [NASA-TH-X-71800] 10 08 p0210 N75-32592 Incorporating energy conservation techniques in the operation of existing LeRC R and D facilities energy policy/NASA programs [NASA-TH-X-7-1813] 08 p0210 N75-28529	Volume 1 06 p0083 B75-17837 OCS oil and gas: An environmental assessment, Volume 2 06 p0084 B75-17838 OCS oil and gas: An environmental assessment, volume 4 06 p0084 B75-17839 OCS oil and gas: An environmental assessment, volume 5 06 p0084 B75-17840 Natural gas in Alabama [PB-236582/3] Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] A realistic view of US natural gas supply [PB-238964/1] Stratigraphy, sedimentology and oil and gas geology of the Lower Cretaceous in central Alberta 07 p0137 B75-22898 Vulnerability of natural gas systems industrial management and operations [AD-A007583] Atlantic outer continental shelf energy resources: An economic analysis [COM-75-10330/9] Mineral resources and the environment. Appendix to section 2: Report of panel on estimation of mineral resources and the environment. Appendix to section 4: Report of panel on demand for fuel and mineral resources [PB-239581/2] Mineral resources and the environment. Appendix to section 4: Report of panel on demand for fuel and mineral resources [PB-239583/8] MER: Ultimate recovery vs rate. A reservoir simulation study. Volume 1 oil and gas production [PB-239767/7] DRE: Ultimate recovery vs rate. A reservoir simulation study. Volume 2: Appendices oil
RULTISPECTBAL PHOTOGRAPHY Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] N NASA PROGRAMS NASA objectives for improved solar power plants 05 p0002 A75-10485 Bission applications of electric propulsion [AIAA PAPER 74-1085] The application of aerospace technology in the cryogenics field 06 p0048 A75-23239 Summary of NASA-Lewis Research Center solar heating and cooling and wind energy programs 07 p0123 A75-37240 NASA thermionic converter research and technology program nuclear electric propulsion application 08 p0188 A75-45956 Plans and status of the NASA-Lewis Research Center wind energy project 08 p0197 A75-47802 Proceedings of the first 1974 Technology Transfer Conference [NASA-CR-142119] 06 p0078 N75-17188 Transfer of space technology to industry 06 p0078 N75-17195 The NASA-Lewis/EBDA solar heating and cooling technology program project planning/energy policy [NASA-TH-X-71800] Incorporating energy conservation techniques in the operation of existing LeRC R and D facilities energy policy/NASA programs [NASA-TH-X-71813] NATIONS An overview of alternative energy sources for LDCs [PB-239465/8] NATORAL GAS NATORAL GAS	Volume 1 06 p0083 B75-17837 OCS oil and gas: An environmental assessment, Volume 2 06 p0084 B75-17838 OCS oil and gas: An environmental assessment, volume 4 06 p0084 B75-17839 OCS oil and gas: An environmental assessment, volume 5 06 p0084 B75-17840 Batural gas in Alabama [PB-236582/3] Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] A realistic view of US natural gas supply [PB-238964/1] Stratigraphy, sedimentology and oil and gas geology of the Lower Cretaceous in central Alberta 07 p0137 B75-2288 Vulnerability of natural gas systems industrial management and operations [AD-A007583] Atlantic outer continental shelf energy resources: An economic analysis [COH-75-10330/9] Sineral resources and the environment. Appendix to section 2: Report of panel on estimation of mineral resources and the environment. Appendix to section 4: Report of panel on demand for fuel and mineral resources [PB-239581/2] Mineral resources and the environment. Appendix to section 4: Report of panel on demand for fuel and mineral resources [PB-239583/8] BER: Ultimate recovery vs rate. A reservoir simulation study. Volume 1 oil and gas production [PB-239767/7] BER: Ultimate recovery vs rate. A reservoir simulation study. Volume 2: Appendices oil and gas production
RULTISPECTBAL PHOTOGRAPHY Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] N HASA PROGRAMS NASA objectives for improved solar power plants 05 p0002 A75-10485 Mission applications of electric propulsion [AIAA PAPER 74-1085] The application of aerospace technology in the cryogenics field 06 p0048 A75-23239 Summary of NASA-Lewis Research Center solar heating and cooling and wind energy programs 07 p0123 A75-37240 WASA thermionic converter research and technology program nuclear electric propulsion application 08 p0188 A75-45956 Plans and status of the NASA-Lewis Research Center wind energy project 08 p0197 A75-47802 Proceedings of the first 1974 Technology Transfer Conference [NASA-CR-142119] Transfer of space technology to industry 06 p0078 N75-17188 Transfer of space technology to industry 06 p0078 N75-17195 The NASA-Lewis/EBDA solar heating and cooling technology program project planning/energy policy [NASA-TH-X-71800] 10 08 p0210 N75-32592 Incorporating energy conservation techniques in the operation of existing LeRC R and D facilities energy policy/NASA programs [NASA-TH-X-7-1813] 08 p0210 N75-28529	Volume 1 06 p0083 B75-17837 OCS oil and gas: An environmental assessment, Volume 2 06 p0084 B75-17838 OCS oil and gas: An environmental assessment, volume 4 06 p0084 B75-17839 OCS oil and gas: An environmental assessment, volume 5 06 p0084 B75-17840 Natural gas in Alabama [PB-236582/3] Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] A realistic view of US natural gas supply [PB-238964/1] Stratigraphy, sedimentology and oil and gas geology of the Lower Cretaceous in central Alberta 07 p0137 B75-22898 Vulnerability of natural gas systems industrial management and operations [AD-A007583] Atlantic outer continental shelf energy resources: An economic analysis [COM-75-10330/9] Mineral resources and the environment. Appendix to section 2: Report of panel on estimation of mineral resources and the environment. Appendix to section 4: Report of panel on demand for fuel and mineral resources [PB-239581/2] Mineral resources and the environment. Appendix to section 4: Report of panel on demand for fuel and mineral resources [PB-239583/8] MER: Ultimate recovery vs rate. A reservoir simulation study. Volume 1 oil and gas production [PB-239767/7] DRE: Ultimate recovery vs rate. A reservoir simulation study. Volume 2: Appendices oil

Natural Coc Act 1 March 1970	BORTH CAROLINA
Natural Gas Act, 1 March 1974 08 p0204 N75-30646	A state energy management plan for North Carolina,
Oil and gas development and coastal zone management	phase 1: A quantitive description of the
[GPO-37-347] 08 p0206 N75-31556 Outer continental shelf oil and gas leasing off	current situation and analysis of the determinants and consequences of future energy use
southern California: Analysis of issues	[PB-238197/8] 07 p0130 N75-21819
[GPO-41-659] 08 p0209 N75-31958 Outer continental shelf oil and gas development	MORPAY Oslo's future power supply
and the coastal zone	[NP-20121] 06 p0067 N75-16087
[GPO-39-356] 08 p0209 N75-31959	HUCLBAR BLECTRIC POWER GENERATION
The economics of the natural gas shortage (1960-1980)	Nuclear energy requirements for hydrogen production from water
[PB-242166/7] 08 p0214 N75-33932	05 p0005 A75-10533
HAVIGATION AIDS The use of solar cells in the lighthouse service	Problems of direct conversion of thermal and nuclear energy to electric energy
06 p0054 A75-24255	07 p0120 A75-36415
The economics of using wind never for electricity	Cryogenic engineering and fusion power superconducting magnet application to reactor
The economics of using wind power for electricity supply in the Netherlands and for water supply	design
On Curação	08 p0173 A75-43979
[NASA-TT-F-15982] 05 p0024 N75-10587 HETWORK AWALYSIS	The nuclear electric economy current and projected energy consumption and fossil fuel
Application of fast sparse-matrix techniques and	depletion rates
an energy estimation model for large transporation networks	08 p0180 A75-44817 California energy workshop: Developing a plan of
08 p0201 N75-28967	action to meet the energy crisis in California
HEUTRON ACTIVATION ANALYSIS	oil recovery, nuclear electric power generation, and offshore energy sources
Trace elements by instrumental neutron activation analysis for pollution monitoring	[PB-237045/0] 06 p0082 N75-17822
.08 p0166 A75-39335	The action of EDF in the prevention of atmospheric
HEUTRON EMISSION An electron beam initiated fusion neutron generator	pollution by expanding nuclear electric power generation
06 p0045 A75-19657	[BLL-CE-TRANS-6500-(9022.09)] 06 p0083 N75-17833
BEON YORK Economic and energy conservation relationship	A preliminary technology assessment of ocean thermal gradient energy generation
relevant to state of New York building design	[PB-238646/4] 07 p0144 N75-24147
and contract awards [PB-237006/2] * 06 p0082 N75-17824	Energy policy and resource management [GPO-33-634] 07 p0149 N75-25300
[PB-237006/2] * 06 p0082 N75-17824 Use of solar energy in buildings in New York state	Study of an integrated power, water and wastewater
[PB-236974/2] 06 p0083 N75-17825	utility complex
HICKEL CADMIUM BATTERIES Milliwatt fuel cell system for sensors	[PB-239408/8] 07 p0157 N75-26523 An agro-power-waste water complex for land
05 p0008 A75-10565	disposal of waste heat and waste water
Bigh energy density sintered plate type sealed nickel cadmium battery cells. I - The positive	[PB-239675/2] 07 p0161 N75-27570 The future of the US nuclear energy industry
electrode/plaque relationships	[PB-242164/2] 08 p0214 N75-33511
05 p0008 A75-10569	NUCLEAR BLECTRIC PROPULSION Terrestrial and space applications of the migma
High energy density sintered plate type nickel-cadmium battery cells. II -	controlled fusion concept
Electrochemical impregnation methods to produce	[AIAA PAPER 75-1263] 08 p0182 A75-45663 The ERDA thermionic program for nuclear
nickel oxide electrodes 05 p0008 A75-10570	propulsion and utility power plants
A novel negative-limited sealed nickel-cadmium cell	08 p0187 A75-45955
05 p0008 A75-10571 Storage of energy in kinetic batteries for an	NASA thermionic converter research and technology program nuclear electric propulsion
earth resources satellite	application
[IAP PAPER ST-75-09] 08 p0183 A75-45875 Bickel-cadmium cells	08 p0188 A75-45956 SENSE 2: Space applications of nuclear power.
[NASA-CR-143715] 07 p0128 N75-21792	Volume 1: Commercial communications satellite
MICKEL COMPOUNDS A detailed analysis of the hydriding	[AEC-SNS-3063-3-VOL+1] 06 p0065 N75-15742 NUCLEAR ENERGY
characteristics of LaNi5 hydrogen storage in	The economics of nuclear power
form of metal bydrides	06 p0047 A75-22734
HICKEL ZINC BATTERIES 08 p0194 A75-46038	Fuels, minerals, and human survival Book 07 p0117 A75-34850
Fickel-zinc batteries for hybrid vehicle operation	Can hydrogen transmission replace electricity 08 p0165 A75-38863
[PB-239710/7] 07 p0156 N75-26514 HITROGRB	Will hydrogen transmission replace electricity
Concerning the use of a nitrogen-potassium gaseous	08 p0172 A75-42281
mixture for protection of MHD-generator electrodes by suction	The UP6 Breeder - A solution to the problems of nuclear power
07 p0112 A75-31569	08 p0187 A75-45951
HITROGEN OXIDES Oxides of nitrogen control techniques for	Advanced nuclear research [GPO-41-253] 05 p0026 B75-10764
appliance conversion to hydrogen fuel	Development, growth, and state of the nuclear
05 p0006 A75-10541	industry [GPO-33-873] 05 p0038 N75-15150
Organic Rankine cycle silent power plant 1.5 kW,	Comparison of the environmental aspects of nuclear
28 volts dc [AD-A000900] 06 p0088 N75-18745	and fossil fueled power stations
Solar 10 kW turboalternator silent power program	[COMP-740555-1] 06 p0077 N75-16995 Production of hydrogen from water using nuclear
[AD-A006549] 08 p0203 N75-29555	energy. A review for hydrogen-based energy
EONCONDENSABLE GASES Control Fed heat pipes	[JAERI-M-5642] 06 p0093 N75-19824 Ainse Engineering Conference energy report
05 p0012 A75-12912	[CONF-740814-ABSTS] 07 p0129 N75-21801
	Brief examination of the status of nuclear power in the republic, using 1974 costs
	[PEL-237E] 07 p0135 N75-22909

HUCLBAR EXPLOSIONS SUBJECT INDEX

Parallation of power facilities; a reviewer's bandbook lectric and nuclear prover planta- lectric and nuclear plant		
(2-2921/3) Os p012 275-2423 Prollation of power teclistics of model environmental superior of power plants of two powers of powers and powers of p	Research and Development Administration and	weight nuclear propulsion and commercial nuclear
JOINT PROCESS (1982-801), November 1973 and January - Pebraary 1973 Politary 1974 Politary 1974 Politary 1975 Roclear system that bufns its own water shows Roclear system that bufns its own water shows [ANA-PRESSIS] Roclear system that bufns its own water shows [ANA-PRESSIS] Roclear system that bufns its own water shows [ANA-PRESSIS] Roclear system that bufns its own water shows [ANA-PRESSIS] Roclear system that bufns its own water shows [ANA-PRESSIS] Roclear system that bufns its own water shows [ANA-PRESSIS] Roclear system that bufns its own water shows [ANA-PRESSIS] Rockear system that bufns its	[S-REPT-93-1252] 07 p0142 N75-24123 Evaluation of power facilities; A reviewer's	[AIAA PAPER 75-1261] 08 p0182 A75-45661 Buclear district-heating and nuclear long-distance
FOLKER EPROACT FOOTE TOTAL TOTAL STATES OF TRANSPORT 1973 and January Potenary 1978 FOLKER 1978—01), Sovement 1973 and January Potenary 1978 FOLKER 1978—1979 FOLKER 1978—		
retriang (1897-91), November 1973 and January - Patheary 1978 Roter 1978 Rot		NUCLEAR MAGNETIC RESONANCE
PROCEASY 1978 WIGCLAR PROSEST STATISTICS 1980 WIGCLAR PROSEST STATIST 1980 WIGCLAR PROS		
RECHAR PISSION Walcher system that bufns its ow wastes shows Walcher system that bufns its own wastes shows Walcher system that bufns its own wastes shows Walcher system that bufns its own wastes shows Walcher system Genocopets in fusion-fission by brid teactors Genocopets of the system of the syste	Pebruary 1974	
processing and electrical and nuclear technology processing (ICEL-75835) or poils 1875-18716 Advanced concepts in Ession-fission hybrid reactors (ICEL-75835) or poils 1875-22113 Figuration of cost of the state of		
[RIA-PRYS-BLIASE-75-48] 66 p0058 N75-12793 Advanced concepts in Tunion-fusion hybrid reactors Advanced concepts in Tunion-fusion hybrid reactors Advanced concepts in Tunion-fusion hybrid reactors Of p013 N75-2213 Of p013 N75-22		processing, and electrical and nuclear technology
Advanced concepts in fusion-fission hybrid reactors [ICCL-73835] 07 p0131 N75-22113 Alternative fuels for aviation 07 p0121 A75-36719 Gaseous fuel nuclear reactor research 07 p0121 A75-36719 The utilization of ocean energy for electrical energy on a large scale of potential energy generation 09 p0158 A75-40181 repression for fossil and nuclear instellation orbital altitudes results of ERTS program for oil orpication orbital altitudes results of ERTS program for oil orpication of cossil and nuclear fuels from orbital altitudes results of ERTS program for oil orpication of polar A75-1052 (Current especial design of a series of laser-fusion power plants of 100 to 3000 8M/e/ p0007 A75-10562 (Current especial design of a series of laser-fusion power plants of 100 to 3000 8M/e/ p0007 A75-10562 (Current especial design of a series of laser-fusion power plants of 100 to 3000 8M/e/ p0007 A75-10562 (Current especial design of a series of laser-fusion power plants of 100 to 3000 8M/e/ p0007 A75-10562 (Current especial design of or poil a 275-10562 (Current especial design of a series of laser-fusion power plants of 100 to 3000 8M/e/ p0007 A75-10562 (Current especial design of a series of laser-fusion power plants of 100 to 3000 8M/e/ p0007 A75-10562 (Current especial design of a series of laser-fusion power plants of 100 to 3000 8M/e/ p0007 A75-10562 (Current especial design of or poil available to the poil poil available to the poil poil power plants of 100 to 3000 8M/e/ p0007 A75-10562 (Current especial design of or optical coapments - 81ch and poil power powe		
Alternative fuels for aviation Gaseous fuel nuclear reactor research The utilization of ocean energy for electrical energy querention Os p0168 A75-40177 The utilization of ocean energy for electrical energy querention Os p0168 A75-40187 Exploration for fossil and nuclear fuels from orbital altitudes—results of ERTS progras orbital altitudes—results of ERTS progras Orbital altitudes—results of ERTS progras Orbital altitudes—results of ERTS progras Orbital altitudes—results of ERTS progras Orbital altitudes—results of ERTS progras Orbital altitudes—results of ERTS progras Orbital altitudes—results of ERTS progras Orbital altitudes—results of ERTS progras Orbital altitudes—results of ERTS progras Orbital altitudes—results of ERTS progras Orbital altitudes—results of ERTS progras Orbital altitudes—results of ERTS progras Orbital altitudes—results of ERTS progras Orbital altitudes—results of Fusion power from Orbital altitudes—results of ERTS progras Orbital altitudes of ERTS progras		
Alternative fuels for aviation Gaseous feel nuclear reactor research Gaseous feel nuclear reactor research The utilization of ocean energy for electrical energy generation Spoing ATS-2017 The utilization of ocean energy for electrical energy generation Spoing ATS-2018 Exploration for fossil and nuclear fossil engage for oil exploration for oil exploration power plants of 100 to 3000 MW/e/ Current expectations for fusion power from power plants of 100 to 3000 MW/e/ Current expectations for fusion power from power plants of 100 to 3000 MW/e/ Current expectations for fusion power from power plants of fusion power from power from power from power from power from power plants of fusion power from power from power from power plants of fusion power from power from power from power plants of fusion power from pow		
Gaseous fuel nuclear reactor rosearch The utilization of ocean energy for electrical energy generation OR 20160 A75-40181 Exploration for fossil and nuclear fuels from orbital altitudes—results of ERTS progras orbital actions of power plants of 100 to 3000 MV-occordinated extension of power plants of 100 to 3000 MV-occordinated extension of power plants orbital accidence of the orbital accidence or		06 p0048 A75-23229
The utilization of ocean energy for electrical energy generation (1) golds A75-40181 Exploration for fossil and nuclear fuels from orbital altitudes results of ENTS program for oil exploration (1) golds A75-40181 Exploration for fossil and nuclear fuels from orbital altitudes results of ENTS program for oil exploration (1) golds A75-40181 NUCLENE PUSION Conceptual design of a series of laser-fasion power plants of 100 to 3000 NN/of po		
Exploration for fossil and nuclear fauls from obtiel altitudes results of ERTS program for oil exploration of polar photosion for oil exploration of control and nuclear fauls from of the photosion of the photosion of the photosion of a series of laser-fusion power plants of 100 to 3000 NM/s/power plants of 100 power plants of 100 power plants in the 100 power plants of 100 pow		
Exploration for fossil and nuclear rues from orbital altitudes results of ENTS program (MAS-178-179781) OS p0027 N75-11413 MUCLEAR FUSION Conceptual design of a series of laser-fusion power plants of 100 to 3000 NV/e (pp. 175-1622 to the chesical and steries) of p001 A75-1052 Current expectations for fusion power from toroidal acchines OS p0014 A75-12996 New applications for optical components - Righ energy focusing OS p0014 A75-12996 New applications for optical components - Righ energy focusing OS p0015 A75-16255 The outlook for fusion energy sources - Benaining technological hardles OS p0059 A75-27782 Laser thersonuclear fusion O7 p0112 A75-24178 Existing of plassa enhances are subjected for fusion focusing fusion for fusion power technology (port of fusion power technology to the chemical industry Ostocol hardles (port of fusion power technology to the chemical industry Ostocol hardles (port of fusion power technology to the chemical and material processing industry (publications of fusion power technology to the chemical and material processing industry (publications of fusion power technology to the chemical and material processing industry (publications of fusion power technology to the chemical and material processing industry (publications of fusion power technology to the chemical and material processing industry (publications of fusion power technology to the chemical and material processing industry (publications of fusion power technology to the chemical and material processing industry (publications of fusion power technology to the chemical and material processing industry (publications of fusion power technology to the chemical and material processing industry (publications of fusion power technology to the chemical and material processing industry (publications of fusion power technology to the chemical and material processing industry (publications of fusion power technology to publications of fusion of power plants (publication profit material processing industry (publications) (
orbital altitudes results of ERTS program for oil reploration successed and prove plants of 100 to 3000 800/c/ Conceptual design of a series of laser-fusion power plants of 100 to 3000 800/c/ Curcant expectations for fusion power from toroidal machines So pouth 475-1296 New applications for optical components - Bigh energy focusing technological burdles So pouth 175-27182 Environmental aspects of fusion reactors Application of plassa exhaust energy for fuel production Production Production Sp pouth 175-2413 Williation of plassa exhaust energy for fuel production Sp pouth 175-24148 Williation of plassa exhaust energy for fuel production Sp pouth 175-2417 Application study of a nuclear coal solution of spatial continues of pouth 175-2418 Williation of plassa exhaust energy for fuel production Sp pouth 175-2418 Williation of plassa exhaust energy for fuel production Sp pouth 175-2419 Williation of plassa exhaust energy for fuel production Survey of applications of fusion power technology to the chesical and anterial processing industry (SWIN-18485) William power by magnetic confinement (WASH-1295) Respective for Toksaks systems for fusion (REAL-4840) Hard on objective of Toksaks systems for fusion (REAL-4840) William reactors (WASH-1295) Respective for a Fusion Test Beactor (FT28) programs schedules for a Fusion Test Beactor (FT28) Respective for the fusion Test Beactor (FT28) Programs schedules for a Fusion Test Beactor (FT28) Respective for the fusion Test Beac		08 p0191 A75-46001
[MASA-TR-X-70781] O5 p0027 M75-11413 MICCIAR PRISICA Conceptual design of a series of leser-fusion power plants of 100 to 3000 MN/s/ power plants of 100 to 3000 MN/s/ coroidal acchines New applications for optical components - Bigh energy focusing Structure texpectations for optical components - Bigh energy focusing O5 p0014 M75-12996 New applications for optical components - Bigh energy focusing O5 p0015 M75-16255 The outlook for fusion energy sources - Resaining technological hurdles O6 p0059 M75-27782 Laser theranouclear fusion O7 p0112 M75-32617 Utilization of plasma exhaust energy for feel production	orbital altitudes results of ERTS program	options for geosynchronous power stations
Conceptual design of a series of laser-fusion power plants of 100 to 3000 MSP of 05 p001 A75-10562 Current expectations for fusion power from toroidal machines of policy and the production of policy and policy and the production of plassa exhaust energy for fuel production of plassa exhaust energy for fuel production production production production production production production production production of plassa exhaust energy for fuel production of plassa exhaust energy for fuel production product	[NASA-TH-X-70781] 05 p0027 N75-11413	
power plants of 100 to 3000 NM/e/ Current expectations for fusion power from toroidal anchines toroidal anchines 05 p0014 A75-1296 New applications for optical components - Righ energy focusing the outlook for optical components - Righ energy focusing 05 p0015 A75-12525 The outlook for fusion energy sources - Remaining technological burdles techn		
Current expectations for fusion power from toroidal machines Bev applications for optical components - High energy focusing	power plants of 100 to 3000 MW/e/	
toroidal machines Bev applications for optical components - Bigh energy focusing The outlook for fusion energy sources - Beathing technological burdles		
sergy focusing The outlook for fusion energy sources - Reaaining technological burdles See thersonuclear fusion Of p0059 A75-27782 Utilization of plasma exhaust energy for fuel production (COO-3020) (COO-3020		
energy focusing The outlook for fusion energy sources - Remaining technological burdles Of p0059 N75-16525 Laser thermonuclear fusion Of p0112 N75-32617 Environmental aspects of fusion reactors Of p0112 N75-32617 Utilization of plasma exhaust energy for fuel production [COO-3028-7] Of p0028 N75-11465 Applications of fusion power technology to the chemical industry [RBL-18865] Survey of applications of fusion power technology to the chemical burdles [UCIL-75418] Survey of applications of fusion power technology to the chemical burdles [UCIL-75418] Survey of applications of fusion power technology to the chemical and material processing industry [RBL-18866] Of p0028 N75-11745 Survey of applications of fusion power technology to the chemical and material processing industry [RBL-18866] Of p0038 N75-12443 [VINIT-75418] Survey of applications of fusion power technology to the chemical and material processing industry [RBL-18866] Of p0038 N75-12443 [VINIT-75418] Survey of applications of fusion power technology for the chemical and saterial processing industry [RBL-18866] Of p0038 N75-12443 [VINIT-75418] Survey of applications of fusion power technology for the chemical and saterial processing industry [RBL-18866] Of p0038 N75-12797 Status and objective of Tokamak systems for fusion research [RBL-188-189] Of p0038 N75-21097 Ragnetic Energy Transfer and Storage (RETS) Program schedules for a fusion research process heat capabilities, for the manufaction of the status of nuclear power in the republic, using 1974 costs [PB-240853] INTERCATION OF PUBLICATION OF PUBLICAT		
The outlook for fusion energy sources - Bemaining technological burdles 06 p0059 A75-27782 Laser thermonuclear fusion 70 p0112 A75-32617 Environmental aspects of fusion reactors 08 p0170 A75-4193 Utilization of plasma exhaust energy for fuel production of plasma exhaust energy for fuel productions of fusion power technology to the chemical industry (BHI-18815) 05 p0028 A75-11745 Gutlook for fusion energy sources: Remaining technological burdles (BCEL-75418] 05 p0029 A75-11745 Survey of applications of fusion power technology to the chemical and material processing industry (BMSH-1295) To the chemical and material processing industry (WASH-1295) Status and objective of Tokamak systems for fusion research (WASH-1295) Review of the prospects for laser induced thermonuclear power generation (ABCL-A840) Review of the prospects for laser induced thermonuclear fusion (ABCL-A840) SIT fusion technology program nuclear reactors and reactor materials (COC-231-1) Synopsis of studies on synthetic fuels production by fusion reactors (BML-19336) CLABS POSS (COSP-741032-1) Brief examination of the status of nuclear power in the regulable, using 1974 costs (PFE-24715) Environmental statement related to the proposed callaway Plant units 1 and 2. Union Electric Company docket nos. STN 50-483 and STN 50-486 (PFE-240193/3) Waste heat disposal from nuclear power plants (COR-75-10009/5) Waste heat disposal from nuclear power reactor used to provide a process heat system to synthesize fuels 08 p0175 A75-4480 Waste heat disposal from nuclear power reactor used to provide a process heat system to synthesize fuels 08 p0175 A75-4090 Waste heat disposal from nuclear power reactor used to provide a process heat system to synthesize fuels 08 p0175 A75-4090 Waste heat disposal from nuclear power reactor used to provide a suitable nuclear power reactor used to provide a process heat system to synthesize fuels 08 p0175 A75-4090 Waste heat disposal from nuclear power reactor used to provide a suitable nuclear power reactor used to p	energy focusing	Energy Committee of the Power Plants
Laser thermonuclear fusion Laser thermonuclear fusion On poll 2 A75-32617 Environmental aspects of fusion reactors On poll 2 A75-32617 Environmental aspects of fusion reactors On poll 2 A75-32617 Environmental aspects of fusion reactors On poll 2 A75-32617 Environmental aspects of fusion reactors On poll 2 A75-32617 Environmental aspects of fusion reactors On poll 2 A75-32617 Environmental aspects of fusion reactors On poll 2 A75-32617 Environmental aspects of fusion reactors On poll 3 A75-2101 On poll 3 A75-2101 On poll 3 A75-2201 Environmental aspects of fusion power technology to the chemical industry On poll 2 A75-31173 On poll 3 A75-2201 On poll 3 A75-2201 Environmental aspects of fusion power technology to the chemical industry On poll 3 A75-2010 Environmental aspects of fusion power technology to the chemical industry On poll 3 A75-2010 Environmental aspects of fusion power technology to the chemical industry On poll 3 A75-2010 Environmental aspects of fusion power technology to the chemical industry On poll 3 A75-2010 Environmental aspects of fusion power technology to the chemical industry On poll 3 A75-2010 Environmental aspects of fusion power technology to the chemical industry On poll 3 A75-2010 Environmental aspects of such as environmental processing industry On poll 3 A75-2010 Environmental statement related to the proposed (Company docted nos. STM 50-483 and STM 50-486 (Pp-20105/5) O7 poll 3 A75-13719 Environmental aspects of such as environmental statement related to the proposed (Company docted nos. STM 50-483 and STM 50-486 (Pp-20105/5) O7 poll 3 A75-13719 Environmental statement related to the proposed (Company docted nos. STM 50-483 and STM 50-486 (Pp-20105/5) O7 poll 3 A75-13719 Environmental statement related to the proposed in stateme		
Laser thermonuclear fusion Or p0112 A75-32617 Environmental aspects of fusion reactors OR p0170 A75-41934 Utilization of plasma exhaust energy for fuel production [CCO0-3028-7] [CCO0-3028-7] [CCO0-3028-7] [CCO0-3028-7] [SBL-18815] Outlook for fusion power technology to the chemical industry [SBL-18815] Outlook for fusion energy sources: Remaining technological hardles [CEND-07 A1912cations of fusion power technology to the chemical and material processing industry to the chemical and material processing industry [SBL-18866] Os p0029 W75-11745 [SBL-18866] Pusion power by magnetic confinement [WASH-1290] Status and objective of Tokamak systems for fusion research [WASH-1290] Status and objective of Tokamak systems for fusion research [WASH-1295] Interesting possibilities of fusion-fission for thermonuclear power generation [ENET-38-566] Ragnetic Energy Transfer and Storage (RETS) program schedules for a Fusion Test Reactor (FTB) [LA-5746-HS] Review of the prospects for laser induced thermonuclear tusion [ABCL-4840] [ABCL-4840] Sporasion of studies on synthetic fuels production by mains technology program nuclear reactors and reactor materials (CCO-2131-1] Synopsis of studies on synthetic fuels production by mains the control of the status of nuclear power in the republic, using 1974 costs [PEZ-237] Entire reaction fuels status of nuclear power in the republic, using 1974 costs [PEZ-104053/1] Entire reanination of the status of nuclear power in the republic, using 1974 costs [PEZ-104053/1] Entire reanination of the status of nuclear power call surfers to populosy/1] Entire reanination of the status of nuclear power populosy/1] Entire reanination of the status of nuclear power call surfers to populosy/1] Entire reanination of the status of nuclear power site survey: Scope of work populosy/1] Entire reanination of the status of nuclear power populosy/1] Entire reanination of the status of nuclear power populosy/1] Entire reanination of the status of nuclear power populosy/1] Entire reanination of the stat	technological hurdles	for thermonuclear power generation
District of plasma exhaust energy for fuel production (COD-3028-7) 05 p0028 M75-11465 production (COD-3028-7) 05 p0028 M75-11465 production (COD-3028-7) 05 p0028 M75-11465 production (COD-3028-7) 05 p0028 M75-11730 Outlook for fusion power technology to the chenical industry (BNL-18815) 05 p0029 M75-11730 Outlook for fusion energy sources: Remaining technological hurdles (UCLL-75418) Survey of applications of fusion power technology to the chenical and material processing industry (BNL-18866) 05 p0031 M75-12493 (FBL-1290) 05 p0031 M75-12493 (FBL-1291) 07 p0152 M75-2534; MASH-1290] 05 p0031 M75-12493 (FBL-1295) MASH-1290] 05 p0031 M75-12493 (FALE) MASH-1290] 05 p0031 M75-13644 Interesting possibilities of fusion-fission		
Utilization of plasma exhaust energy for fuel production (COO-3028-7) 05 p0028 N75-11465 Applications of fusion power technology to the chemical industry (BNL-18815) 05 p0029 N75-11730 Outlook for fusion energy sources: Remaining technological hurdles (UCLL-7518] Survey of applications of fusion power technology to the chemical and material processing industry (BNL-18866) 05 p0031 N75-12443 (WASH-1290) 05 p0031 N75-12443 (WASH-1290) 05 p0031 N75-12443 Interesting possibilities of fusion-fission	07 p0112 A75-32617	potential, and economics
Utilization of plasma exhaust energy for fuel production [COO-3028-7] (COO-3028-7] (Doublook for fusion power technology to the chemical industry [BHL-18815] (Dutlook for fusion energy sources: Remaining technological hurdles [PEL-290453/1] (UCRL-75418] (UCRL-75418] (UCRL-75418] (UCRL-75418] (UCRL-75418) (UCRL-75418)		
COO-3028-7		in the republic, using 1974 costs
Applications of fusion power technology to the chemical industry [PB-240453/1] On thook for fusion energy sources: Remaining technological burdles [UCEL-75418] O5 p0029 N75-11745 [PB-240163/3] O7 p0152 N75-2534 [PB-240163/3] O7 p0152 N75-2732 [PB-240163/3] O7 p0158 N75-1274 [PB-240163/		
[BBL-18815] O5 p0029 N75-11730 Outlook for fusion energy sources: Remaining technological hurdles [UCRL-75418] O5 p0029 N75-11745 Survey of applications of fusion power technology to the chesical and material processing industry [BBL-18866] O5 p0031 N75-12443 Pusion power by magnetic confinement [WASH-1290] O5 p0031 N75-12797 Status and objective of Tokamak systems for fusion research [WASH-1290] O5 p0031 N75-12797 Status and objective of Tokamak systems for fusion research [WASH-1290] O5 p0031 N75-12797 Status and objective of Tokamak systems for fusion research [WASH-1290] O5 p0031 N75-12797 Status and objective of Tokamak systems for fusion research [WASH-1290] O5 p0031 N75-12797 Status and objective of Tokamak systems for fusion research [WASH-1290] O5 p0031 N75-12797 Status and objective of Tokamak systems for fusion research [WASH-1290] O5 p0031 N75-12797 Status and objective of Tokamak systems for fusion research [WASH-1290] O5 p0031 N75-12797 Status and objective of Tokamak systems for fusion research [WASH-1290] O5 p0031 N75-12797 Status and objective of Tokamak systems for fusion research [WASH-1290] O5 p0031 N75-12797 Status and objective of Tokamak systems for fusion research [WASH-1290] O5 p0031 N75-12797 Status and objective of Tokamak systems for systems research [WASH-1290] O5 p0031 N75-12797 Status and objective of Tokamak systems for fusion research [WASH-1290] O5 p0031 N75-12797 Status and objective of Tokamak systems for fusion research [WASH-1290] O5 p0031 N75-12797 Status and objective of Tokamak systems for fusion research [WASH-1290] O5 p0031 N75-12797 Status and objective of Tokamak systems for fusion [WASH-1290] O5 p0031 N75-12797 Status and objective of Tokamak systems for fusion [WASH-1290] O5 p0031 N75-12797 Status and objective of Tokamak systems for fusion [WASH-1290] O5 p0031 N75-12797 Status and objective of Tokamak systems for fusion [WASH-1290] O5 p0031 N75-12797 Status and objective of Tokamak systems for fusion [WASH-1290] O5 p0031 N75-12797 Status and objective of Tokamak s		
technological burdles [URL-75418] 05 p0029 N75-11745 Survey of applications of fusion power technology to the chemical and material processing industry [BKL-18866] 05 p0031 N75-12443 Pusion power by magnetic confinement [WASR-1220] 05 p0031 N75-12797 Status and objective of Tokamak systems for fusion research [WASR-12295] 05 p0035 N75-13644 Interesting possibilities of fusion-fission for thermonuclear power generation [BWL-SA-5069] 06 p0096 N75-20106 Magnetic Energy Transfer and Storage (RETS) program schedules for a Fusion Test Reactor (PTR) [LA-5748-85] 06 p0106 N75-21097 MIT fusion technology program nuclear reactors and reactor materials [COM-75-10407/5] 07 p0131 N75-22266 [ABCL-4840] 06 p0106 N75-21097 MIT fusion technology program nuclear reactors and reactor materials [COM-75-10407/5] 07 p0132 N75-22266 [AIAN APPER 74-082] 05 p0014 A75-13719 Synches of the prospects for laser induced thermonuclear fusion [ABCL-4840] 06 p0106 N75-21097 MIT fusion technology program nuclear reactors and reactor materials [COM-75-10407/5] 07 p0132 N75-22266 [AIAN APPER 74-082] 05 p0014 A75-13719 Synthesize fuels "WICLEAR PROPUESION" Huclear propulsion [AIAN APPER 74-1072] 05 p0001 A75-12266 [AIAN APPER 74-072] 05 p0015 A75-13719 Application of nuclear reactor weight nuclear proposition and commercial nuclear process heat systems [AIAN APPER 74-072] 05 p0015 A75-13719 Application of nuclear reactor weight nuclear propulsion and commercial nuclear process heat systems [AIAN APPER 74-072] 05 p0015 A75-13719 Application of nuclear reactor seater technology transfer to energy systems [AIAN APPER 74-072] 05 p0015 A75-13764 MICLEAR REACTIONS HUCLEAR REACTIONS		
[UCRL-75418] Survey of applications of fusion power technology to the chemical and material processing industry [EBKL-18866] Pusion power by magnetic confinement [WASH-1290] Status and objective of Tokamak systems for fusion research [WASH-1295] Interesting possibilities of fusion-fission for thermonuclear power generation [BNWL-SA-5069] Ragnetic Energy Transfer and Storage (RETS) [CBH-5748-MS] Review of the prospects for laser induced thermonuclear fusion [AECL-4880] 06 p0106 N75-21097 MIT fusion technology program nuclear reactors and reactor materials [CCPL-75835] 07 p0131 N75-21101 Synopsis of studies on synthetic fuels production by fusion reactors [EBL-19336] 06 p0106 N75-21101 Advanced concepts in fusion-fission hybrid reactors [UCRL-75835] 07 p0131 N75-22113 Hydrogen production from decomposition of water by means of nuclear reactor heat on the fusion systems of storage vessel surfaces on spontation of ultra-high temperature nuclear heat sources for MHD conversion systems OS p0031 N75-12797 BUCLEAR POWER BRICTORS Space power systems - Retrospect and prospect [IAP FAPER 74-082] 05 p0014 A75-13719 Buricommental impact of a suitable nuclear power reactor used to provide a process heat system to synthesize fuels Space power systems - Retrospect and prospect [IAP FAPER 74-082] 05 p0014 A75-13719 Buricommental impact of a suitable nuclear power reactor used to provide a process heat systems to synthesize fuels Space power systems - Retrospect and prospect [IAP FAPER 74-082] 05 p0014 A75-12797 Buricommental impact of a suitable nuclear power reactor used to provide a process heat systems to synthesize fuels Space power systems - Retrospect and prospect [IAP FAPER 74-082] 05 p0014 A75-12797 Buclear Power Bractors [IAB PAPER 74-082] 05 p0031 N75-12797 WUCLEAR PROVERD SHIPS Submarine tanker concepts and problems used to prove page power and propulsion [IAP FAPER 74-087] 05 p0013 A75-12797 Application of nuclear rocket technology to light weight nuclear propulsion and commercial nuc		
Survey of applications of fusion power technology to the chemical and material processing industry [BNL-18866] 05 p0031 N75-12443 Pusion power by magnetic confinement 05 p0031 N75-12797 Status and objective of Tokamak systems for fusion research [NASH-1295] 05 p0035 N75-13644 Interesting possibilities of fusion-fission		
[BHL-18866] Pusion power by magnetic confinement [WASH-1290] Status and objective of Tokamak systems for fusion research [WASH-1295] Status and objective of Tokamak systems for fusion research [WASH-1295] Status and objective of Tokamak systems for fusion research [WASH-1295] Status and objective of Tokamak systems for fusion research [WASH-1295] Special objective of Tokamak systems for fusion research [WASH-1295] Special objective of Tokamak systems for fusion research [WASH-1295] Special objective of Tokamak systems for fusion research [WASH-1295] Special objective of Tokamak systems for fusion research [WASH-1295] Special objective of Tokamak systems for fusion research [WASH-1295] Special objective of Tokamak systems for fusion research [WASH-1295] Special objective of Tokamak systems for fusion research [WASH-1295] Special objective of Tokamak systems for fusion research [WASH-1295] Special objective of Tokamak systems for fusion research [WASH-1295] Spops by magnetic confinement [WASH-1290] Spops by magnetic confinem	Survey of applications of fusion power technology	[COM-75-10407/5] 07 p0158 N75-27324
Fusion power by magnetic confinement [WASH-1290] 05 p0031 W75-12797 Status and objective of Tokamak systems for fusion research [WASH-1295] 05 p0035 W75-13644 Interesting possibilities of fusion-fission for thermonuclear power generation [BWKL-5A-5069] 06 p0096 W75-20106 Magnetic Energy Transfer and Storage (METS) program schedules for a Fusion Test Reactor (PTR) [LA-5748-M5] 06 p0106 W75-21097 Review of the prospects for laser induced thermonuclear fusion [AECL-4840] 06 p0106 W75-21099 MIT fusion technology program nuclear reactors and reactor materials [COO-2431-1] Synopsis of studies on synthetic fuels production by fusion reactors [BKL-19336] 06 p0106 W75-21104 [BKL-19336] 07 p0131 W75-22113 [HCLEAR PEAT Hydrogen production from decomposition of water by means of nuclear reactor heat 08 p0175 A75-44760 Consideration of ultra-high temperature nuclear heat sources for MBD conversion systems [WISH-1290] 05 p0031 W75-12797 [RIL FAPER 74-082] 05 p0031 W75-12171 [WICLEAR PROPULSION [WICLEAR PROPULSION [INT FAPER 74-082] 05 p0031 W75-12797 [WICLEAR PROPULSION [WICLEAR PROPULSION [INT PAPER 74-082] 05 p0031 W75-12797 [WICLEAR PROPULSION [WICLEAR PROPULSION [INT PAPER 74-082] 05 p0031 W75-12797 [WICLEAR PROPULSION [INT PAPER 74-082] 05 p0031 W75-12797 [WICLEAR PROPULSION [INT PAPER 74-082] 05 p0031 W75-12797 [INT PAPER 74-082] 07 p0132 W75-12797 [AND PAPER 74-082] 05 p0031 W75-12797 [AND PAPER 74-087] 05 p0013 W75-12797 [AND PAPER 74-087] 05 p0015 A75-13719 [AND PAPER 74-087] 05 p0015 A75-13719 [AND PAPER 74-087] 05 p0015 A75-13719 [AND PAPER 74-087] 05 p0018 A75-12797 [AND PAPER 74-087] 05 p0018 A75-1		
Status and objective of Tokamak systems for fusion research [WASH-1295] 05 p0035 W75-13644 Interesting possibilities of fusion-fission for thermonuclear power generation [BWWL-SA-5069] 06 p0096 W75-20106 Bagnetic Energy Transfer and Storage (RETS) program schedules for a Pusion Test Reactor (PTR) [LA-5748-WS] 06 p0106 W75-21097 [Review of the prospects for laser induced thermonuclear fusion [AECL-4840] 06 p0106 W75-21099 HIT fusion technology program nuclear reactors and reactor materials [COO-2431-1] 06 p0106 W75-21101 Synopsis of studies on synthetic fuels production by fusion reactors [BWL-19336] 06 p0106 W75-21104 Advanced concepts in fusion-fission hybrid reactors [BWL-19336] 06 p0106 W75-21104 Advanced concepts in fusion-fission hybrid reactors [BWL-19336] 07 p0131 W75-22113 [BWCLEAR REAT] 08 p0179 A75-44805 WICLEAR REATIONS Hydrogen production from decomposition of water by means of nuclear reactor heat Bydrogen production of ultra-high temperature nuclear heat sources for WHD conversion systems BWCLEAR REACTIONS HUCLEAR R		[IAF PAPER 74-082] 05 p0014 a75-13714
[WASH-1295] 05 p0035 W75-13644 Interesting possibilities of fusion-fission for thermonuclear power generation [BWHL-SA-5069] 06 p0096 W75-20106 Bagnetic Energy Transfer and Storage (METS) program schedules for a Fusion Test Reactor (FTR) [LA-5748-M5] 06 p0106 W75-21097 Review of the prospects for laser induced thermonuclear fusion [AECL-4840] 06 p0106 W75-21099 BIT fusion technology program and reactor materials [COO-2431-1] 06 p0106 W75-21101 Synopsis of studies on synthetic fuels production by fusion reactors [BNL-19336] 06 p0106 W75-21104 Advanced concepts in fusion-fission hybrid reactors [URRL-75835] 07 p0131 W75-22113 BUCLEAR HEAT Hydrogen production from decomposition of water by means of nuclear reactor heat ON p0175 A75-44760 Consideration of ultra-high temperature nuclear heat sources for BID conversion systems ON p0131 W75-12797 BUCLEAR PROPULSION Fusion power by magnetic confinement [WASH-1290] 05 p0031 W75-12797 BUCLEAR PROPULSION Fusion power by magnetic confinement [WASH-1290] 07 p0131 W75-12797 BUCLEAR PROPULSION Fusion power by magnetic confinement [WASH-1290] 07 p0131 W75-12797 BUCLEAR PROPULSION Fusion power by magnetic confinement [WASH-1290] 05 p0031 W75-12797 BUCLEAR PROPULSION Fusion power by magnetic confinement [WASH-1290] 07 p0132 W75-2264 Fusion power by magnetic confinement [WASH-1290] 07 p0132 W75-2264 Fusion power by magnetic confinement [WASH-1290] 07 p0132 W75-2264 Fusion power by magnetic confinement [WASH-1290] 07 p0132 W75-2264 Fusion power by magnetic confinement [WASH-1290] 07 p0132 W75-2264 Fusion power by magnetic confinement [WASH-1290] 07 p0132 W75-2264 Fusion power by magnetic confinement [WASH-1290] 07 p0132 W75-2264 Fusion power by magnetic confinement [WASH-1290] 07 p0132 W75-2264 Fusion power by magnetic confinement [WASH-1290] 05 p0031 W75-12797 Fusion power by magnetic confinement [WASH-1290] 05 p0031 W75-12797 Fusion power by magnetic confinement [WASH-1290] 05 p0031 W75-12797 Fusion power by magnetic confinement [WAS		
Interesting possibilities of fusion-fission for thermonuclear power generation [BNWL-5A-5069] 06 p0096 N75-20106 Hagnetic Energy Transfer and Storage (NETS) program schedules for a Fusion Test Reactor (PTR) [LA-5748-M5] 06 p0106 N75-21097 Review of the prospects for laser induced thermonuclear fusion [ABCL-4840] 06 p0106 N75-21099 HIT fusion technology program nuclear reactors and reactor materials [CO0-2431-1] 06 p0106 N75-21101 Synopsis of studies on synthetic fuels production by fusion reactors [BNL-19336] 06 p0106 N75-21104 Advanced concepts in fusion-fission hybrid reactors [UCLEAR HEAT Hydrogen production from decomposition of water by means of nuclear reactor heat OR p0175 A75-44760 Consideration of ultra-high temperature nuclear heat sources for HHD conversion systems Fusion power by magnetic confinement [WASH-1290] 05 p0031 N75-12797 BUCLEAR POWERED SELPS Submarine tanker concepts and problems [COH-75-10009/9] 07 p0132 N75-22264 [COH-75-10009/9] 07 p0132 N75-2264 [COH-75-10009/9] 07 p0132 N75-2264 [AIA		
for thermonuclear power generation [BNWL-SA-5069] 06 p0096 N75-20106 Hagnetic Energy Transfer and Storage (METS) program schedules for a Fusion Test Reactor (FTR) [LA-5748-MS] 06 p0106 N75-21097 Review of the prospects for laser induced thermonuclear fusion [AECL-4840] 06 p0106 N75-21099 HIT fusion technology program nuclear reactors and reactor materials [COO-2431-1] 06 p0106 N75-21101 Synopsis of studies on synthetic fuels production by fusion reactors [BNL-19336] 06 p0106 N75-21104 Advanced concepts in fusion-fission hybrid reactors [UCRL-75835] 07 p0131 N75-22113 Hydrogen production from decomposition of water by means of nuclear reactor heat O8 p0175 A75-44760 Consideration of ultra-high temperature nuclear heat sources for HHD conversion systems [WASH-1290] 05 p0031 N75-12797 Submarine tanker concepts and problems [COM-75-10009/9] 07 p0132 N75-22264 Huclear propulsion technology transfer to energy systems [AIAA PAPER 74-1072] 05 p0001 A75-10264 Physics and potentials of fissioning plasmas for space power and propulsion [IAF PAPER 74-087] 05 p0001 A75-13719 Application of nuclear rocket technology to light weight nuclear propulsion and commercial nuclear process heat systems [AIAA PAPER 75-1261] 08 p0182 A75-45661 BUCLEAR REACTIONS Hydrogen distribution profiling embrittlement of storage vessel surfaces 08 p0179 A75-44805 HUCLEAR REACTOR CONTROL Fusion power by magnetic confinement [WASH-1290] 05 p0031 N75-12797	Interesting possibilities of fusion-fission	
Magnetic Energy Transfer and Storage (METS) program schedules for a Fusion Test Reactor (FTR) [LA-5748-MS] 06 p0106 N75-21097 Review of the prospects for laser induced thermonuclear fusion [AECL-4840] 06 p0106 N75-21099 HIT fusion technology program nuclear reactors and reactor materials [COO-2431-1] 06 p0106 N75-21101 Synopsis of studies on synthetic fuels production by fusion reactors [BNL-19336] 06 p0106 N75-21104 Advanced concepts in fusion-fission hybrid reactors [UCRL-75835] 07 p0131 N75-22113 HYdrogen production from decomposition of water by means of nuclear reactor heat 08 p0175 A75-44760 Consideration of ultra-high temperature nuclear heat sources for HHD conversion systems Submarine tanker concepts and problems [COM-75-10009/9] 07 p0132 N75-22264 [COM-75-10009/9] 07 p0132 N75-22264 [Huclear propulsion technology transfer to energy systems [AIAA PAPEE 74-1072] 05 p0001 A75-10264 Physics and problems [AIAA PAPEE 74-1072] 05 p0001 A75-13719 Application of nuclear rocket technology to light weight nuclear propulsion and commercial nuclear process heat systems [AIAA PAPEE 75-1261] 08 p0152 A75-45661 WUCLEAR REACTIONS Hydrogen distribution profiling embrittlement of storage vessel surfaces 08 p0179 A75-44805 HUCLEAR REACTOR CONTROL Fusion power by magnetic confinement [WASH-1290] 05 p0031 N75-12797	for thermonuclear power generation	
program schedules for a Fusion fest Reactor (FTR) [LA-5748-MS] 06 p0106 N75-21097 Review of the prospects for laser induced thermonuclear fusion [AECL-4840] 06 p0106 N75-21099 HIT fusion technology program nuclear reactors and reactor materials [COO-2431-1] 06 p0106 N75-21101 Synopsis of studies on synthetic fuels production by fusion reactors [BNL-19336] 06 p0106 N75-21104 Advanced concepts in fusion-fission hybrid reactors [UCRL-75835] 07 p0131 N75-22113 Hydrogen production from decomposition of water by means of nuclear reactor heat O8 p0175 A75-44760 Consideration of ultra-high temperature nuclear heat sources for HHD conversion systems [COM-75-10009/9] 07 p0132 N75-22264 Huclear propulsion technology transfer to energy systems [AIAA PAPER 74-1072] 05 p0001 A75-10264 Physics and potentials of fissioning plasmas for space power and propulsion [IAP PAPER 74-087] Application of nuclear rocket technology to light weight nuclear propulsion and commercial nuclear process heat systems [AIAA PAPER 74-1072] 05 p0001 A75-13719 Application of nuclear rocket technology to light weight nuclear propulsion [AIAA PAPER 74-1087] Application of nuclear propulsion [AIAA PAPER 74-087] Application of nuclear propulsion [AIAA		
Review of the prospects for laser induced thermonuclear fusion [AECL-4840] 06 p0106 N75-21099 MIT fusion technology program nuclear reactors and reactor materials [COO-2431-1] 06 p0106 N75-21101 Synopsis of studies on synthetic fuels production by fusion reactors [BNL-19336] 06 p0106 N75-21104 Advanced concepts in fusion-fission hybrid reactors [UCRL-75835] 07 p0131 N75-22113 MUCLEAR HEAT Hydrogen production from decomposition of water by means of nuclear reactor heat O8 p0175 A75-44760 Consideration of ultra-high temperature nuclear heat sources for MHD conversion systems WICLEAR REACTOR CONTROL Fusion power by magnetic confinement [WSB-1290] 05 p0031 N75-12797	program schedules for a Pusion Test Reactor (FTR)	
HIT fusion technology program nuclear reactors and reactor materials [COO-2431-1] 06 p0106 M75-21101 Synopsis of studies on synthetic fuels production by fusion reactors [BNL-19336] 06 p0106 M75-21104 Advanced concepts in fusion-fission hybrid reactors [UCRL-75835] 07 p0131 W75-22113 HUCLEAR HEAT Hydrogen production from decomposition of water by means of nuclear reactor heat 08 p0175 A75-44760 Consideration of ultra-high temperature nuclear heat sources for HHD conversion systems Physics and potentials of fissioning plasmas for space power and propulsion [IAP PAPER 74-087] 05 p0015 A75-13719 Application of nuclear rocket technology to light weight nuclear propulsion and commercial nuclear process heat systems [AIAA PAPER 75-1261] 08 p0182 A75-45661 HUCLEAR REACTIONS Hydrogen distribution profiling embrittlement of storage vessel surfaces 08 p0179 A75-44805 HUCLEAR REACTOR CONTROL Fusion power by magnetic confinement [WSH-1290] 05 p0031 M75-12797	Review of the prospects for laser induced thermonuclear fusion	Huclear propulsion technology transfer to energy systems
and reactor materials [COO-2031-1] 06 p0106 N75-21101 Synopsis of studies on synthetic fuels production by fusion reactors [BNL-19336] 06 p0106 N75-21104 Advanced concepts in fusion-fission hybrid reactors [UCRL-75835] 07 p0131 N75-22113 Hydrogen production from decomposition of water by means of nuclear reactor heat 08 p0175 A75-44760 Consideration of ultra-high temperature nuclear heat sources for HHD conversion systems space power and propulsion [IAP APPER 74-087] 05 p0015 A75-13719 Application of nuclear rocket technology to light weight nuclear propulsion and commercial nuclear process heat systems [AIAP APPER 75-1261] 08 p0182 A75-45661 WUCLEAR REACTIONS Hydrogen distribution profiling embrittlement of storage vessel surfaces 08 p0179 A75-44805 HUCLEAR REACTOR CONTROL Fusion power by magnetic confinement [WASH-1290] 05 p0031 N75-12797		
Synopsis of studies on synthetic fuels production by fusion reactors [BNL-19336] 06 p0106 N75-21104 Advanced concepts in fusion-fission hybrid reactors [UCRL-75835] 07 p0131 N75-22113 BUCLEAR HEAT Hydrogen production from decomposition of water by means of nuclear reactor heat 08 p0175 A75-44760 Consideration of ultra-high temperature nuclear heat sources for HHD conversion systems Application of nuclear rocket technology to light weight nuclear propulsion and commercial nuclear process heat systems [AIAA PAPER 75-1261] 08 p0182 A75-45661 Hydrogen distribution profiling embrittlement of storage vessel surfaces 08 p0179 A75-44805 BUCLEAR REACTIONS BUCLEAR REACTION CONTROL Fusion power by magnetic confinement [WASH-1290] 05 p0031 N75-12797	and reactor materials	space power and propulsion
by fusion reactors [BNL-19336] 06 p0106 N75-21104 Advanced concepts in fusion-fission hybrid reactors [UCRL-75835] 07 p0131 N75-22113 BUCLEAR HEAT Hydrogen production from decomposition of water by means of nuclear reactor heat 08 p0175 A75-44760 Consideration of ultra-high temperature nuclear heat sources for HHD conversion systems Weight nuclear propulsion and commercial nuclear process heat systems [AIAA PAPER 75-1261] 08 p0182 A75-45661 BUCLEAR REACTIONS Hydrogen distribution profiling embrittlement of storage vessel surfaces 8 p0179 A75-44805 BUCLEAR REACTOR CONTROL Fusion power by magnetic confinement [WASH-1290] 05 p0031 N75-12797		[IAF PAPER 74-087] 05 p0015 A75-13719 Application of nuclear rocket technology to light
Advanced concepts in fusion-fission hybrid reactors [UCRL-75835] 07 p0131 N75-22113 WUCLBAR HEAT Hydrogen production from decomposition of water by means of nuclear reactor heat 08 p0175 A75-44760 Consideration of ultra-high temperature nuclear heat sources for BHD conversion systems [AIAA PAPER 75-1261] 08 p0182 A75-45661 WUCLBAR REACTIONS Hydrogen distribution profiling embrittlement of storage vessel surfaces 08 p0179 A75-44805 WUCLBAR REACTOR CONTROL Fusion power by magnetic confinement [WASH-1290] 05 p0031 N75-12797	by fusion reactors	weight nuclear propulsion and commercial nuclear
[UCRL-75835] 07 p0131 N75-22113 WUCLBAR HEAT Hydrogen production from decomposition of water by means of nuclear reactor heat 08 p0175 A75-44760 Consideration of ultra-high temperature nuclear heat sources for BHD conversion systems UCLBAR REACTIONS Hydrogen distribution profiling embrittlement of storage vessel surfaces 08 p0179 A75-44805 WUCLBAR REACTIONS HUCLBAR REACTIONS HYDROGEN distribution profiling embrittlement of storage vessel surfaces 18 p0179 A75-44805 HUCLBAR REACTIONS		
Hydrogen production from decomposition of water by means of nuclear reactor heat 08 p0175 A75-44760 Consideration of ultra-high temperature nuclear heat sources for BHD conversion systems 08 p0179 A75-44805 WUCLBAR REACTOR CONTROL Fusion power by magnetic confinement [WASH-1290] 05 p0031 H75-12797	[UCRL-75835] 07 p0131 N75-22113	NUCLEAR REACTIONS
08 p0175 A75-44760 MUCLEAR REACTOR CONTROL Consideration of ultra-high temperature nuclear heat sources for MHD conversion systems [WASH-1290] 05 p0031 M75-12797	Hydrogen production from decomposition of water by	of storage Vessel surfaces
Consideration of ultra-high temperature nuclear Fusion power by magnetic confinement heat sources for MHD conversion systems [WASH-1290] 05 p0031 M75-12797		
	Consideration of ultra-high temperature nuclear	Pusion power by magnetic confinement
[B 2 1 - 1 7 - 1	heat sources for BHD conversion systems [AIAA PAPER 75-1258] 08 p0182 A75-45659	[1273

SUBJECT INDEX OIL EXPLORATION

HUCLBAR REACTORS	OCTABES
The production of gaseous energy carriers from	Benthal decomposition of adsorbed octadecane
fossil fuels 06 p0049 175-23502	impact of oil pollution, deoxygenation of waterways
Energy supply in a closed cycle nuclear energy	06 p0106 R75-20891
for nonelectrical use	OFFSHORE BHERGY SOURCES
06 p0049 A75-23503	Hot side heat exchanger for an ocean thermal
Hydrogen production from decomposition of water by	difference power plant
means of nuclear reactor heat 08 p0175 A75-44760	05 p0004 A75-10527 An overview of solar energy applications
An MHD energy storage system comprising a	08 p0 166 A75-39196
heavy-water producing electrolysis plant and a	High intensity wind belts as massive energy sources
H2/02/CSOH MHD generator/steam turbine	08 p0172 A75-42532
combination to provide a means of transferring	Sea thermal power as a hydrogen and methanol
nuclear reactor energy from the base-load regime	generator
into the intermediate-load and peaking regimes 08 p0179 A75-44800	08 p0175 A75-44763 Ocean based solar-to-hydrogen energy conversion
MIT fusion technology program nuclear reactors	macro system
and reactor materials	08 p0175 A75-44764
[COO-2431-1] 06 p0106 H75-21101	Offshore investigation: Producible shut-in
Synopsis of studies on synthetic fuels production	leases, January 1974, phase 1 potentially
by fusion reactors [BNL-19336] 06 p0106 M75-21104	productive oil and gas wells 05 p0027 N75-11457
Direct conversion of plasma energy to electricity	Offshore investigation: Producible shut-in leases
for mirror fusion reactors	as of January 1974, phase 2 an estimation of
[UCRL-76051] 07 p0129 H75-21800	natural gas reserves in offshore wells
Advanced concepts in fusion-fission hybrid reactors [UCRL-75835] 07 p0131 N75-22113	05 p0027 N75-11458 Offshore investigation: Producible shut-in leases
HUCLEAR RESEARCH	as of January 1974 (second phase)
Fusion power research - Where do we stand	[PB-234490/1] 05 p0040 N75-15174
05 p0013 A75-12995	California energy workshop: Developing a plan of
Fusion power by magnetic confinement - Plans and	action to meet the energy crisis in California
the associated need for nuclear engineers 08 p0170 A75-41433	oil recovery, nuclear electric power generation, and offshore energy sources
Advanced nuclear research	[PB-237045/0] 06 p0082 N75-17822
[GPO-41-253] 05 p0026 N75-10764	OCS oil and gas: An environmental assessment,
•	volume 3 effect of natural phenomena on OCS
0	gas and oil development 06 p0083 N75-17836
OCCLUSION	OCS oil and gas: An environmental assessment,
Arterial gas occlusions in operating heat pipes	Volume 1
[AIAA PAPER 75-657] 07 p0 114 A75-32915	06 p0083 N75-17837
OCEAN CURRENTS Power from ocean waves	OCS oil and gas: An environmental assessment, volume 4
[ASHE PAPER 74-WA/PWR-5] 05 p0018 a75-16879	06 p0084 N75-17839
Gulf stream based ocean thermal power plants	OCS oil and gas: An environmental assessment,
[AIAA PAPER 75-643] 06 p0063 A75-28603	Volume 5
The utilization of ocean energy for electrical energy generation	06 p0084 N75-17840 Relationships between bidding and hydrocarbon
08 p0168 A75-40181	production of the Federal Outer Continental
OCEAN DATA ACQUISITIONS SYSTEMS	Shelf (through 1970) offshore energy sources
Energy sources for ocean technology for	[PB-238188/7] 07 p0127 N75-21788
unmanned surface stations and manned underwater stations	Oil and gas development and coastal zone management [GPO-37-347] 08 p0206 N75-31556
07 p0114 A75-33118	The OCS (Outer Continental Shelf) petroleum pie
OCEAB SURPACE	[COM-75-10599/9] 08 p0206 N75-31562
Ocean thermal power and windpower systems -	Outer continental shelf oil and gas development
Natural solar energy conversion for near-term	and the coastal zone
impact on world energy markets . 06 p0060 A75-27790	[GPO-39-356] 08 p0209 N75-31959 OFFSHORE PLATFORMS
Characteristics of a rocking wave power device	Solar Sea Power Plants (SSPP): A critical review
for waterwave energy conversion	and survey
06 p0062 A75-28450	[NASA-TM-X-70783] 05 p0028 N75-11459
Systems aspects of ocean thermal energy conversion [AINA PAPER 75-615] 06 p0062 A75-28593	Seaward extension of urban systems: The feasibility of offshore coal-fired electrical
Site limitations on Solar Sea Power Plants	power generation
[AIAA PAPER 75-618] 06 p0062 a75-28594	[COM-75-10592/4] 08 p0208 N75-31579
Ocean thermal gradient hydraulic power plant	OHIO
07 p0124 A75-37849	Determine utility of ERTS-1 to detect and monitor
Foam solar sea power plant 07 p0124 A75-37850	area strip mining and reclamation southeastern Ohio
Energy exchange at the surface of the western	[E75-10327] 07 p0158 N75-27515
North Atlantic Ocean	OHNIC DISSIPATION
[AD-A007296] 07 p0146 N75-24285	Silicon solar cells for highly concentrated sunlight
OCEANOGRAPHY A preliminary technology assessment of ocean	07 p0120 A75-36363
thermal gradient energy generation	Dry oil
[PB-238646/4] 07 p0144 m75-24147	[BLL-M-23508~(5828.4F)] 06 p0074 N75-16969
OCEANS	OIL EXPLORATION
Solar sea thermal energy [GPO-37-476] 05 p0030 H75-12430	Oil exploration needs for digital processing of imagery
An analysis of the fluid motion into the condenser	05 p0001 A75-10437
intake of a 400 mW(e) ocean thermal difference	Laser induced luminescence signatures of refined
power plant hydrodynamics/sea water-energy	and wirgin crude petroleum - Their composition
policy	and remote sensing implications 06 p0050 A75-23790
[PB-242569/2] 08 p0213 N75-33508	00 p0030 R/3-23/90

Purther development of scientific research in the Oil displacement by different surfactant and field of geology and of the survey and exploration of petroleum and gas polymer waterflood systems 07 p0134 N75-22858 [JPRS-63414] 05 p0027 N75-11410 At-sea testing of a high seas oil recovery system
[AD-A006938] 07 p0136 N75-22953 Exploration for fossil and nuclear fuels from orbital altitudes --- results of ERTS program Interdisciplinary study of atmospheric processes for oil exploration [NASA-TM-X-70781] and constituents of the mid-Atlantic coastal region. Attachment 3: Data set for Craney 05 p0027 N75-11413 Island oil refinery installation experiment -air pollution monitoring
[NASA-CR-142823] 07 p0141 M75-2 Offshore investigation: Producible shut-in leases, January 1974, phase 1 --- potentially productive oil and gas wells 07 p0141 N75-24121 05 p0027 N75-11457
Bureau of Mines energy program, 1973 -- discovery
and production of oil, gas, and fluid fuels
[PB-234682/3] 05 p0040 N75-15172
Offshore investigation: Producible shut-in leases Interdisciplinary study of atmospheric processes and constituents of the mid-Atlantic coastal region. Attachment 4: Data set for background region. Attachment w. Data set for Managround investigation of atmospheric constituents for Nansemond River site --- a proposed oil refinery as of January 1974 (second phase) site [PB-234490/1] 05 p0040 N75-15174 [NASA-CR-142821] 07 p0141 N75-24122 Development of oil and gas on the Continental Shelf [GPO-31-891] 06 p0075 N75-16973 Shale retorting in a 150-ton batch-type pilot plant [PB-240263/4] 07 p0151 B75-25328 [GPO-31-891] OCS oil and gas: An environmental assessment, volume 3 -- effect of natural phenomena on OCS Atlantic outer continental shelf energy resources: An economic analysis gas and oil development [COM-75-10330/9] 06 p0083 N75-17836 MER: Ultimate recovery vs rate. A reservoir simulation study. Volume 1 --- oil and gas OCS oil and gas: An environmental assessment, production 06 p0084 N75-17838 PB-239767/7] 07 p0157 N75-26526 BER: Ultimate recovery vs rate. A reservoir simulation study. Volume 2: Appendices --- oil and gas production
[PB-239768/5] 07 p0157 N75-265 OCS oil and gas: An environmental assessment, volume 4 06 p0084 N75-17839 OCS oil and gas: An environmental assessment, 07 p0157 N75-26527 The benefits/costs of tertiary oil recovery
[PB-240463/0] 08 p0201 N75-28552
Oil and gas development and coastal zone management
[GPO-37-347] 08 p0206 N75-31556 volume 5 06 p0084 N75-17840 Stratigraphy, sedimentology and oil and gas
geology of the Lower Cretaceous in central Alberta
07 p0137 N75-22961
Pulsed nuclear magnetic resonance studies of oil
shales--estimation of potential oil yields
[PB-240023/2]
The OCS (Outer Continental Shelf) petrolegm pie Outer continental shelf oil and gas development and the coastal zone [GPO-39-356] 08 p0209 N75-08 p0209 N75-31959 OIL SLICKS At-sea testing of a high seas oil recovery system
[AD-A006938] 07 p0136 N75-22953 OIL PIELDS Solvent stimulation tests in two California Impact of motor gasoline lead additive regulations oilfields [PB-237849/5] on petroleum refineries and energy resources, 1974-1980, phase 1 [PB-234185/7] 05 p0025 N75-06 p0090 N75-18761 OIL BECOVERY 05 p0025 N75-10601 Prototype oil shale leasing program
[GPO-28-686] Synthetic oil from coal [PB-234460/4] 05 p0039 N75-15160 05 p0040 N75-15176 Char oil energy development [PB-234018/0] Collection and concentration of solar energy using Presnel type lenses [NASA-CR-142194] 05 p0040 N75-15173 Basic research needs for tertiary oil recovery: 06 p0080 N75-17784 Proceedings of a National Science Foundation Submarine tanker concepts and problems [COM-75-10009/9] 07 pc Workshop [PB-236726/6] 07 p0132 N75-22264 [COM-75-10009/9]
World oil developments and US oil import policies
[GPO-22-893]
O7 p0148 N75-25294 06 p0066 N75-16072 Average oil yeild tables for oil shale sequences in cores from the Uinta Basin, Utah, that average 15, 20, 25, 30, 35, and 40 gallons per ton [PB-236068/3] 06 p0072 N75-16124 [GPO-22-893] Oil and US policy [AD-A006473] 08 p0203 N75-29558 OKLAHŌHA Dry oil
[BLL-M-23508-(5828-4F)]
California energy workshop: Developing a plan of action to meet the energy crisis in California Application study of a nuclear coal solution 06 p0074 N75-16969 gasification process for Oklahoma coal, volume 1 [PB-236156/6] 05 p0037 N75-14279 Evaluation of the suitability of Skylab data for --- oil recovery, nuclear electric power generation, and cffshore energy sources [PB-237045/0] 06 p0082 the purpose of petroleum exploration
[E75-10257] 07 p0147 B75-25237 06 p0082 N75-17822 ONBOARD EQUIPMENT OCS oil and gas: An environmental assessment, Cryogenic heat pipe experiment - Flight Volume 1 performance onboard a sounding rocket
[AIAA PAPER 75-729] 07 p0 . 06 p0083 N75-17837 Pollutional problems and research needs for an oil 07 p0113 A75-32872 OPERATING TEMPERATURE shale industry [PB-236608/6] Heat pipe applications development in Europe 06 p0084 N75-17848 08 p0195 A75-46043 [PB-236008/6]
Profitability analysis of producing crude oil by waterflooding using a simulation technique [PB-237843/8]
O6 p0088 N75-18738
Solvent stimulation tests in two California OPERATIONAL PROBLEMS Main problems met in the study of cryogenic generators 06 p0061 A75-27962 oilfields Operational experience - Solar heating a Boston [PB-237849/5] 06 p0090 N75-18761 school Evaluation of thermal methods for recovery of viscous oils in Missouri and Kansas [PB-237831/3] 06 p0090 M75-08 p0184 A75-45923 Conference proceedings, Steam Power Plant Workshop [PB-239514/3] 07 p0144 W75-24148 06 p0090 N75-18762 In situ oil shale conversion and recovery [SLA-74-0162] 06 p0093 875-19825 OPTICAL DATA PROCESSING Oil exploration needs for digital processing of Methodical approach to temperature and pressure imagery thouses approach to temperature and processes measurements for in situ energy-recovery processes [nCID-16631] 05 p0001 A75-10437 OPTICAL EQUIPMENT Optical interfaces in solar energy utilization 07 p0123 A75-37331

07 p0127 N75-21716

Production of oil from fractured reservoirs by

water displacement

OIL FIELDS

OPTICAL FILTERS	OSCILLATING PLOW using Study of an electrofluidic generator
Collection and concentration of solar energy Presnel type lenses	08 p0189 A75-45978
[NASA-CR-142194] 06 p0080 NOTICAL PROPERTIES	Electrically rechargeable redox flow cells
Optical coatings for collection and conserva- of solar energy	tion 05 p0008 A75-10573 Surface electronic properties and the search for
. 08 p0181 A	75-45512 new hydrogen oxidation catalysts
Research on cadmium stannate selective optic films for solar energy applications [PB-236208/5] 06 p0071 N	Redox thermogalvanic cells for direct energy
OPTICAL REFLECTION The COMSAT non-reflective silicon solar cell	08 p0191 A75-45999
second generation improved cell 06 p0053 A	secondary battery 75-24245 07 p0127 N75-21790
Use of flexible reflective surfaces for solar energy concentration 06 p0056 A	exhaust gas; an experimental investigation
Stationary concentrating reflector cun track absorber solar energy collector - Optical	ing OXIDE FILES
characteristics 07 p0120 A	75-36307 05 p0015 A75-16378
OPTICAL TRACKING Stationary concentrating reflector cum track	
absorber solar energy collector - Optical characteristics	OXYGEN
OPTIMAL CONTROL 07 p0 120 A	75-36307 Considerations on iron-chloride-oxygen reactions in relation to thermochemical water-splitting
Powerplant energy management transport aircraft engine thrust control	08 p0177 A75-44779
[AIAA PAPER 74-1066] 05 p0001 A Extended energy management methods for fligh	
performance optimization	P-H JUNCTIONS
[AIAA PAPER 75-30] 05 p0021 A Pundamentals of automatic control of space n power plants Russian book	
05 p0048 A	75-23229 05 p0011 A75-12198
OPTIMIZATION The Energy Systems Optimization Computer Pro	II-VI photovoltaic heterojunctions for solar gram energy conversion
/ESOP/ developed for Modular Integrated Ut	
Systems /HIUS/ analysis 05 p0006 A	75-10551 resistance of a semiconductor photoelectric
Optimization of parameters of permeable thermoelectric generators	converter 06 p0057 A75-26713
07 p0110 A Optimal solar energy collector system	75-30487 High-efficiency graded band-gap Al/x/Ga/1-x/As-GaAs solar cell
07 p0115 A On the optimum tilt of a solar collector	The conversion efficiency of ideal Shockley p-n
07 p0115 A Optimization of the operating conditions of	
combined generator-cooler thermoelement 07 p0121 A	07 p0120 A75-36362°
Optimization of fusion power density in the	photoconverter series resistance 07 p0122 A75-37164
two-energy-component tokamak reactor 07 p0124 A	
Wind power system optimization 08 p0193 A	75-46026 08 p0171 175-42166
ORBITAL ASSEMBLY Overcoming two significant hurdles to space	P-TIPE SHEECONDUCTORS Power Advances in the theory and application of BSF cells Back Surface Field solar cells
generation Transportation and assembly [ATAL PAPER 75-641] 06 p0063 A	.75-28601
ORGANIC COMPOUNDS Biological conversion of organic refuse to m	PACIFIC OCEAN ethane An evaluation of oceanographic and socioeconomic
[P8-235468/6] 05 p0041 B	75-15183 aspects of a nearshore ocean thermal energy conversion pilot plant in subtropical Hawaiian
Technology considerations for Organic Bankin Cycle Electric Power Systems	re waters [PB-242167/5] 08 p0213 #75-33509
05 p0002 A	
ORGANIC HATERIALS TWO-stage methane production from solid wast	es power installation with a parabolocylindric
[ASHE PAPER 74-WA/ENER-11] 05 p0017 A ORGANIC SENICONDUCTORS	75-16842 concentrator 05 p0020 175-17069
Analysis of conversion efficiency of organic-semiconductor solar cells	PARABOLIC REFLECTORS Energy distribution in the concentration field of
ORGANIC SULPUR COMPOUNDS	reflector
Chemistry of organic sulfur compounds contain	ned in 07 p0122 A75-37157
petroleums and petroleum products, Volume [TT-70-57759] 07 p0138 B	175-23691 cylindrical parabolic focusing and flat plate
ORGANIC WASTES (FUEL CONVENSION) An overview of solar energy applications	solar energy collectors [COMP-741104-3] 06 p0103 H75-20872
08 p0166 A Fuel as an agricultural crop	Compact solar energy concentrator
08 p0172 l Production of gaseous fuel by pyrolysis of	05 p0021 A75-19050 Hethod of calibrating a solar power plant with a
municipal solid waste	paraboloidal mirror
[WASA-CR-141791] 07 p0140 B	173-24 103 07 polito #73-34313

Pabricating paraboloidal high-temperature solar	DEDEADER MAD STORE
a faf a analai a fa	PERPORBANCE TESTS
concentrators from mollified sectors	Performance testing of thermoelectric generators
07 p0122 A75-37166	at JPL
Application of heat pipes to solar collectors	05 p0002 A75-10503
08 p0195 A75-46045	
	Operational testing of the high performance
Solar-thermal electric power generation using a	thermoelectric generator /HPG-02/
system of distributed parabolic trough collectors	05 p0003 A75-10505
[AICHE PAPER 12] 08 p0196 A75-47511	Comparative performance characteristics of
PARALLELEPIPEDS	cylindrical parabolic and flat plate solar
Approximate analysis of the steady temperature	energy collectors .
field of a parallelepiped with a local energy	[ASME PAPER 74-WA/ENER-3] 05 p0016 A75-16835
source	Performance of a laser mirror heat pipe
07 p0112 A75-32212	[ASME PAPER 74-WA/HT-61] 05 p0018 A75-16869
PARTICULATE SAMPLING	Investigation of the technology and performance of
The collaborative study of EPA methods, 5, 6, and	lithium doped solar cells feasibility study
7 in fossil fuel-fired steam generators	for mass production
[PB-237695/2] 06 p0091 N75-18788	06 p0052 A75-24219
PASSENGER AIRCRAPT	Performance of advanced silicon solar cells in a
Energy efficiency of current intercity passenger	Space environment
transportation modes	06 p0052 A75-24232
[AIAA PAPER 75-314] 06 p0047 A75-22513	
	Solar collector performance evaluated outdoors at
PAVENCETS	WASA-Lewis Research Center
Snow and ice removal from pavements using stored	06 p0058 A75-27531
earth energy via heat pipes	Status of the NASA-Lewis flat-plate collector
[PB-240623/9] 07 p0162 N75-27581	tests with a solar simulator
PELLETS	. 06 p0058 A75-27533
A review of thermal battery technology	The International Heat Pipe Experiment ten
05 p0007 A75-10557	experiments in zero gravity
Laser compression of matter - Optical power and	[AIAA PAPER 75-726] 07 p0113 A75-32870
energy requirements	Cryogenic heat pipe experiment - Flight
06 p0046 A75-22352	performance onboard a sounding rocket
Pellet type thermal battery	[AIAA PAPER 75-729] 07 p0113 A75-32872
[SAND-74-0007] 06 p0076 N75-16991	Measurements of the performance of an
PERFORMANCE	electrohydrodynamic heat pipe
Development of a soluble reactants and products	[AIAA PAPER 75-659] 07 p0114 A75-32917
secondary battery	
07 p0127 N75-21790	Field performance and operation of a flat-glass solar heat collector
PERFORMANCE PREDICTION	07 p0115 A75-33973
A 10% efficient economic RTG design	Development of the KIVA-I MHD open cycle generator
radioisotope thermoelectric generator	07 p0124 A75-37686
05 p0003 A75-10506	Year round performance studies on a built-in
Solar augmented home heating heat pump system	storage type solar water heater at Jodhpur, India
05 p0004 A75-10524	08 p0167 A75-39406
Development of a theoretical method for predicting	Laboratory based activities in solar energy at the
the performance of hydrogen-oxygen MHD generators	National Bureau of Standards
05 p0009 A75-10578	08 p0168 A75-40299
Electrostatic voltage generation from flowing water	A technique for calibrating photometric curves
05 p0009 A75-10580	obtained in solar concentrator tests
The analysis of the performance of a pancake	00 -0100 175-45060
	08 p0180 A75-45060
absorber-heat exchanger for a solar concentrator	
	Research applied to solar thermal systems
absorber-heat exchanger for a solar concentrator [ASME PAPER 74-WA/SOL-1] 05 p0018 A75-16884	Research applied to solar thermal systems [PB-241089/2] 08 p0200 H75-28543
absorber-heat exchanger for a solar concentrator [ASME PAPER 74-WA/SOL-1] 05 p0018 A75-16884 Thermal performance characteristics of heat pipes	Research applied to solar thermal systems [PB-241089/2] 08 p0200 H75-28543 Solar collector performance evaluation with the
absorber-heat exchanger for a solar concentrator [ASHE PAPER 74-WA/SOL-1] 05 p0018 A75-16884 Thermal performance characteristics of heat pipes 06 p0046 A75-21465	Research applied to solar thermal systems [PB-241089/2] 08 p0200 N75-28543 Solar collector performance evaluation with the NASA-Lewis solar simulator-results for an
absorber-heat exchanger for a solar concentrator [ASME PAPER 74-WA/SOL-1] 05 p0018 A75-16884 Thermal performance characteristics of heat pipes 06 p0046 A75-21465 Performance of a solar battery using	Research applied to solar thermal systems [PB-241089/2] 08 p0200 N75-28543 Solar collector performance evaluation with the NASA-Levis solar simulator-results for an all-glass-evacuated-tubular selectively-coated
absorber-heat exchanger for a solar concentrator [ASHE PAPER 74-WA/SOL-1] 05 p0018 A75-16884 Thermal performance characteristics of heat pipes 06 p0046 A75-21465	Research applied to solar thermal systems [PB-241089/2] 08 p0200 N75-28543 Solar collector performance evaluation with the NASA-Lewis solar simulator-results for an all-glass-evacuated-tubular selectively-coated collector with a diffuse reflector
absorber-heat exchanger for a solar concentrator [ASME PAPER 74-WA/SOL-1] 05 p0018 A75-16884 Thermal performance characteristics of heat pipes 06 p0046 A75-21465 Performance of a solar battery using quasi-cylindrical array of plane mirrors as a concentrator	Research applied to solar thermal systems [PB-241089/2] O8 p0200 N75-28543 Solar collector performance evaluation with the NASA-Lewis solar simulator-results for an all-glass-evacuated-tubular selectively-coated collector with a diffuse reflector [NASA-TH-X-71695] 08 p0207 N75-31568
absorber-heat exchanger for a solar concentrator [ASHE PAPER 74-WA/SOL-1] 05 p0018 A75-16884 Thermal performance characteristics of heat pipes 06 p0046 A75-21465 Performance of a solar battery using quasi-cylindrical array of plane mirrors as a concentrator 07 p0109 A75-29478	Research applied to solar thermal systems [PB-241089/2] 08 p0200 N75-28543 Solar collector performance evaluation with the NASA-Lewis solar simulator-results for an all-glass-evacuated-tubular selectively-coated collector with a diffuse reflector [NASA-TH-X-71695] 08 p0207 N75-31568 PERIODIC VARIATIONS
absorber-heat exchanger for a solar concentrator [ASME PAPER 74-WA/SOL-1] 05 p0018 A75-16884 Thermal performance characteristics of heat pipes 06 p0046 A75-21465 Performance of a solar battery using quasi-cylindrical array of plane mirrors as a concentrator 07 p0109 A75-29478 Outdoor flat-plate collector performance	Research applied to solar thermal systems [PB-241089/2] Solar collector performance evaluation with the NASA-Lewis solar simulator-results for an all-glass-evacuated-tubular selectively-coated collector with a diffuse reflector [NASA-TH-X-71695] PERIODIC VARIATIOMS Experience in setting up solar-energy survey for
absorber-heat exchanger for a solar concentrator [ASME PAPER 74-WA/SOL-1] 05 p0018 A75-16884 Thermal performance characteristics of heat pipes 06 p0046 A75-21465 Performance of a solar battery using quasi-cylindrical array of plane mirrors as a concentrator 07 p0109 A75-29478 Outdoor flat-plate collector performance prediction from solar simulator test data	Research applied to solar thermal systems [PB-241089/2] Solar collector performance evaluation with the NASA-Lewis solar simulator-results for an all-glass-evacuated-tubular selectively-coated collector with a diffuse reflector [NASA-TH-X-71695] PERIODIC VARIATIONS Experience in setting up solar-energy survey for Azerbaidzhan
absorber-heat exchanger for a solar concentrator [ASHE PAPER 74-WA/SOL-1] 05 p0018 A75-16884 Thermal performance characteristics of heat pipes 06 p0046 A75-21465 Performance of a solar battery using quasi-cylindrical array of plane mirrors as a concentrator 07 p0109 A75-29478 Outdoor flat-plate collector performance prediction from solar simulator test data [AINA PAPER 75-741] 07 p0113 A75-32862	Research applied to solar thermal systems [PB-241089/2] 08 p0200 N75-28543 Solar collector performance evaluation with the NASA-Lewis solar simulator-results for an all-glass-evacuated-tubular selectively-coated collector with a diffuse reflector [NASA-TH-X-71695] 08 p0207 N75-31568 PERIODIC VARIATIONS Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081
absorber-heat exchanger for a solar concentrator [ASME PAPER 74-WA/SOL-1] 05 p0018 A75-16884 Thermal performance characteristics of heat pipes 06 p0046 A75-21465 Performance of a solar battery using quasi-cylindrical array of plane mirrors as a concentrator 07 p0109 A75-29478 Outdoor flat-plate collector performance prediction from solar simulator test data [AIAA PAPER 75-741] 07 p0113 A75-32862 Investigations of the factors affecting the	Research applied to solar thermal systems [PB-241089/2] Solar collector performance evaluation with the NASA-Lewis solar simulator-results for an all-glass-evacuated-tubular selectively-coated collector with a diffuse reflector [NASA-TH-X-71695] PERIODIC VARIATIONS Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 PERMEMBILITY
absorber-heat exchanger for a solar concentrator [ASME PAPER 74-WA/SOL-1] 05 p0018 A75-16884 Thermal performance characteristics of heat pipes 06 p0046 A75-21465 Performance of a solar battery using quasi-cylindrical array of plane mirrors as a concentrator 07 p0109 A75-29478 Outdoor flat-plate collector performance prediction from solar simulator test data [AIAA PAPER 75-741] 07 p0113 A75-32862 Investigations of the factors affecting the performance of a rotating heat pipe	Research applied to solar thermal systems [PB-241089/2] Solar collector performance evaluation with the NASA-Lewis solar simulator-results for an all-glass-evacuated-tubular selectively-coated collector with a diffuse reflector [NASA-TH-X-71695] PERIODIC VARIATIONS Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 PERREBBILITY Capillary flow through heat-pipe wicks
absorber-heat exchanger for a solar concentrator [ASME PAPER 74-WA/SOL-1] 05 p0018 A75-16884 Thermal performance characteristics of heat pipes 06 p0046 A75-21465 Performance of a solar battery using quasi-cylindrical array of plane mirrors as a concentrator 07 p0109 A75-29478 Outdoor flat-plate collector performance prediction from solar simulator test data [AIAA PAPER 75-741] 07 p0113 A75-32862 Investigations of the factors affecting the performance of a rotating heat pipe 07 p0120 A75-36357	Research applied to solar thermal systems [PB-241089/2] O8 p0200 N75-28543 Solar collector performance evaluation with the NASA-Lewis solar simulator-results for an all-glass-evacuated-tubular selectively-coated collector with a diffuse reflector [NASA-TH-X-71695] 08 p0207 N75-31568 PERIODIC VARIATIONS Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 PERREABILITY Capillary flow through heat-pipe wicks [AIAA PAPER 75-661] 07 p0114 A75-32919
absorber-heat exchanger for a solar concentrator [ASME PAPER 74-WA/SOL-1] 05 p0018 A75-16884 Thermal performance characteristics of heat pipes 06 p0046 A75-21465 Performance of a solar battery using quasi-cylindrical array of plane mirrors as a concentrator 07 p0109 A75-29478 Outdoor flat-plate collector performance prediction from solar simulator test data [AIAA PAPER 75-741] 07 p0113 A75-32862 Investigations of the factors affecting the performance of a rotating heat pipe 07 p0120 A75-36357 Evaluation of focusing solar energy collectors	Research applied to solar thermal systems [PB-241089/2] Solar collector performance evaluation with the NASA-Lewis solar simulator-results for an all-glass-evacuated-tubular selectively-coated collector with a diffuse reflector [NASA-TH-X-71695] PERIODIC VARIATIONS Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 PERMEABILITY Capillary flow through heat-pipe wicks [AIAA PAPER 75-661] 07 p0114 A75-32919 Fracture-induced permeability: Present situation
absorber-heat exchanger for a solar concentrator [ASME PAPER 74-WA/SOL-1] 05 p0018 A75-16884 Thermal performance characteristics of heat pipes 06 p0046 A75-21465 Performance of a solar battery using quasi-cylindrical array of plane mirrors as a concentrator 07 p0109 A75-29478 Outdoor flat-plate collector performance prediction from solar simulator test data [AIAA PAPER 75-741] 07 p0113 A75-32862 Investigations of the factors affecting the performance of a rotating heat pipe 07 p0120 A75-36357 Evaluation of focusing solar energy collectors 08 p0168 A75-40300	Research applied to solar thermal systems [PB-241089/2] Solar collector performance evaluation with the NASA-Lewis solar simulator-results for an all-glass-evacuated-tubular selectively-coated collector with a diffuse reflector [NASA-TH-X-71695] PERIODIC VARIATIONS Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 PERREABILITY Capillary flow through heat-pipe wicks [ATAA PAPER 75-661] 07 p0114 A75-32919 Practure-induced permeability: Present situation and prospects for coal
absorber-heat exchanger for a solar concentrator [ASME PAPER 74-WA/SOL-1] 05 p0018 A75-16884 Thermal performance characteristics of heat pipes 06 p0046 A75-21465 Performance of a solar battery using quasi-cylindrical array of plane mirrors as a concentrator 07 p0109 A75-29478 Outdoor flat-plate collector performance prediction from solar simulator test data [AIAA PAPER 75-741] 07 p0113 A75-32862 Investigations of the factors affecting the performance of a rotating heat pipe 07 p0120 A75-36357 Evaluation of focusing solar energy collectors 08 p0168 A75-40300 The effect of atmospheric turbulence on windmill	Research applied to solar thermal systems [PB-241089/2] O8 p0200 N75-28543 Solar collector performance evaluation with the NASA-Lewis solar simulator-results for an all-glass-evacuated-tubular selectively-coated collector with a diffuse reflector [NASA-TH-X-71695] 08 p0207 N75-31568 PERIODIC VARIATIONS Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 PERMEABILITY Capillary flow through heat-pipe wicks [AIAA PAPER 75-661] 07 p0114 A75-32919 Practure-induced permeability: Present situation and prospects for coal [UCID-16593] 06 p0094 N75-19830
absorber-heat exchanger for a solar concentrator [ASME PAPER 74-WA/SOL-1] 05 p0018 A75-16884 Thermal performance characteristics of heat pipes 06 p0046 A75-21465 Performance of a solar battery using quasi-cylindrical array of plane mirrors as a concentrator 07 p0109 A75-29478 Outdoor flat-plate collector performance prediction from solar simulator test data [AIAA PAPER 75-741] 07 p0113 A75-32862 Investigations of the factors affecting the performance of a rotating heat pipe 07 p0120 A75-36357 Evaluation of focusing solar energy collectors 08 p0168 A75-40300 The effect of atmospheric turbulence on windmill performance	Research applied to solar thermal systems [PB-241089/2] Solar collector performance evaluation with the NASA-Lewis solar simulator-results for an all-glass-evacuated-tubular selectively-coated collector with a diffuse reflector [NASA-TH-X-71695] PERIODIC VARIATIONS Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 PERMEABILITY Capillary flow through heat-pipe wicks [AIAA PAPER 75-661] Fracture-induced permeability: Present situation and prospects for coal [UCID-16593] PERTURBATION THRORY
absorber-heat exchanger for a solar concentrator [ASME PAPER 74-WA/SOL-1] 05 p0018 A75-16884 Thermal performance characteristics of heat pipes 06 p0046 A75-21465 Performance of a solar battery using quasi-cylindrical array of plane mirrors as a concentrator 07 p0109 A75-29478 Outdoor flat-plate collector performance prediction from solar simulator test data [AIAA PAPER 75-741] 07 p0113 A75-32862 Investigations of the factors affecting the performance of a rotating heat pipe 07 p0120 A75-36357 Evaluation of focusing solar energy collectors 08 p0168 A75-40300 The effect of atmospheric turbulence on windmill performance 08 p0174 A75-44756	Research applied to solar thermal systems [PB-241089/2] Solar collector performance evaluation with the NASA-Lewis solar simulator-results for an all-glass-evacuated-tubular selectively-coated collector with a diffuse reflector [NASA-TH-X-71695] PERIODIC VARIATIONS Experience in setting up solar-energy survey for Azerbaidzhan O5 p0020 A75-17081 PERREABILITY Capillary flow through heat-pipe wicks [AIAA PAPER 75-661] O7 p0114 A75-32919 Practure-induced permeability: Present situation and prospects for coal [UCID-16593] PERTURBATION THEORY Extended energy management methods for flight
absorber-heat exchanger for a solar concentrator [ASME PAPER 74-WA/SOL-1] 05 p0018 A75-16884 Thermal performance characteristics of heat pipes 06 p0046 A75-21465 Performance of a solar battery using quasi-cylindrical array of plane mirrors as a concentrator 07 p0109 A75-29478 Outdoor flat-plate collector performance prediction from solar simulator test data [AIAA PAPER 75-741] 07 p0113 A75-32862 Investigations of the factors affecting the performance of a rotating heat pipe 07 p0120 A75-36357 Evaluation of focusing solar energy collectors 08 p0168 A75-40300 The effect of atmospheric turbulence on windmill performance 08 p0174 A75-44756 Initial comparisons of solar collector performance	Research applied to solar thermal systems [PB-241089/2] Solar collector performance evaluation with the NASA-Lewis solar simulator-results for an all-glass-evacuated-tubular selectively-coated collector with a diffuse reflector [NASA-TH-X-71695] 08 p0207 H75-31568 PERHODIC VARIATIONS Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 PERHERBILITY Capillary flow through heat-pipe wicks [AIAA PAPER 75-661] 07 p0114 A75-32919 Fracture-induced permeability: Present situation and prospects for coal [UCID-16593] PERTURBATION THEORY Extended energy management methods for flight performance optimization
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absorber-heat exchanger for a solar concentrator [ASME PAPER 74-WA/SOL-1] Op 0018 A75-16884 Thermal performance characteristics of heat pipes 06 p0046 A75-21465 Performance of a solar battery using quasi-cylindrical array of plane mirrors as a concentrator Or p0109 A75-29478 Outdoor flat-plate collector performance prediction from solar simulator test data [AIAA PAPER 75-741] Or p0113 A75-32862 Investigations of the factors affecting the performance of a rotating heat pipe Or p0120 A75-36357 Evaluation of focusing solar energy collectors 08 p0168 A75-40300 The effect of atmospheric turbulence on windmill performance 08 p0174 A75-44756 Initial comparisons of solar collector performance data obtained out-of doors and with a solar simulator 08 p0197 A75-47804 A generalised analysis of the performance of a variety of drive systems for high Reynolds number, transonic wind tunnels [BAE-TR-73134] Electronic model of the U-25 device 06 p0081 B75-17794 Solar collector performance evaluated outdoors at BASA-Lewis Research Center [BASA-TB-I-71689] The effect of sunshine testing on terrestrial solar cell system components	Research applied to solar thermal systems [PB-241089/2] 08 p0200 H75-28543 Solar collector performance evaluation with the NASA-Lewis solar simulator-results for an all-glass-evacuated-tubular selectively-coated collector with a diffuse reflector [NASA-TH-X-71695] 08 p0207 H75-31568 PERIODIC VARIATIONS Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 PERMERBILITY Capillary flow through heat-pipe wicks [ATAA PAPER 75-661] 07 p0114 A75-32919 Fracture-induced permeability: Present situation and prospects for coal [UCID-16593] 06 p0094 H75-19830 PERTURBATION THRORY Extended energy management methods for flight performance optimization [ATAA PAPER 75-30] 05 p0021 A75-18269 PETROGRAPHY Evaluation of the suitability of Skylab data for the purpose of petroleum exploration [E75-10257] 07 p0147 H75-25237 PETROLOGY Coal petrography and petrology. A bibliography 1964 - 1973 [PB-236351/3] 06 p0072 R75-16123 The influence of the petrology of the Karagandin coals on their methane contents [BLL-RTS-9309] PHASE TRANSPORMATIONS Thermodynamic considerations of 'solid state
absorber-heat exchanger for a solar concentrator [ASME PAPER 74-WA/SOL-1] Op p0018 A75-16884 Thermal performance characteristics of heat pipes Of p0046 A75-21465 Performance of a solar battery using quasi-cylindrical array of plane mirrors as a concentrator O7 p0109 A75-29478 Outdoor flat-plate collector performance prediction from solar simulator test data [AIAN PAPER 75-741] Investigations of the factors affecting the performance of a rotating heat pipe O7 p0120 A75-36357 Evaluation of focusing solar energy collectors O8 p0168 A75-40300 The effect of atmospheric turbulence on windmill performance O8 p0174 A75-44756 Initial comparisons of solar collector performance data obtained out-of doors and with a solar simulator O8 p0197 A75-47804 A generalised analysis of the performance of a variety of drive systems for high Reynolds number, transonic wind tunnels [BAE-TR-73134] Electronic model of the U-25 device O6 p0081 B75-17794 Solar collector performance evaluated outdoors at WBSA-TR-7-1689] O7 p0128 B75-21794 The effect of sunshine testing on terrestrial solar cell system components [WASA-TR-X-71722] O7 p0140 B75-24109	Research applied to solar thermal systems [PB-241089/2] 08 p0200 N75-28543 Solar collector performance evaluation with the NASA-Lewis solar simulator-results for an all-glass-evacuated-tubular selectively-coated collector with a diffuse reflector [NASA-TH-X-71695] 08 p0207 N75-31568 PERIODIC VARIATIONS Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 PERNEABILITY Capillary flow through heat-pipe wicks [AIAA PAPER 75-661] 07 p0114 A75-32919 Fracture-induced permeability: Present situation and prospects for coal [UCID-16593] 06 p0094 N75-19830 PERTURBATION THEORY Extended energy management methods for flight performance optimization [AIAA PAPER 75-30] 05 p0021 A75-18269 PETROGRAPHY Evaluation of the suitability of Skylab data for the purpose of petroleum exploration [E75-10257] 07 p0147 N75-25237 PETFOLIGET Coal petrography and petrology. A bibliography 1964 - 1973 [PB-236351/3] 06 p0072 N75-16123 The influence of the petrology of the Karagandin coals on their methane contents [BLL-RTS-9309] 07 p0158 N75-27511 PHASE TRANSFORMATIONS Thermodynamic considerations of 'solid state engines' based on thermoelastic martensitic
absorber-heat exchanger for a solar concentrator [ASME PAPER 74-WA/SOL-1] Thermal performance characteristics of heat pipes 06 p0046 A75-21465 Performance of a solar battery using quasi-cylindrical array of plane mirrors as a concentrator 07 p0109 A75-29478 Outdoor flat-plate collector performance prediction from solar simulator test data [AIAA PAPER 75-741] Investigations of the factors affecting the performance of a rotating heat pipe 07 p0120 A75-36357 Evaluation of focusing solar energy collectors 08 p0168 A75-40300 The effect of atmospheric turbulence on windmill performance 08 p0174 A75-44756 Initial comparisons of solar collector performance data obtained out-of doors and with a solar simulator 08 p0197 A75-47804 A generalised analysis of the performance of a variety of drive systems for high Reynolds number, transonic wind tunnels [RAE-TR-73134] Electronic model of the U-25 device 06 p0073 M75-16572 Electronic model of the U-25 device 07 p0128 M75-17794 Solar collector performance evaluated outdoors at MASA-Lewis Research Center [MSA-TB-X-71689] 07 p0128 M75-21794 The effect of sunshine testing on terrestrial solar cell system components [MSA-TB-X-71722] 07 p0140 M75-24109 Solar collector performance studies	Research applied to solar thermal systems [PB-241089/2] 08 p0200 H75-28543 Solar collector performance evaluation with the NASA-Lewis solar simulator-results for an all-glass-evacuated-tubular selectively-coated collector with a diffuse reflector [NASA-TH-X-71695] 08 p0207 H75-31568 PERIODIC VARIATIONS Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 PERMEABILITY Capillary flow through heat-pipe wicks [AIAA PAPER 75-661] 07 p0114 A75-32919 Practure-induced permeability: Present situation and prospects for coal [UCID-16593] 06 p0094 H75-19830 PERTURBATION THEORY Extended energy management methods for flight performance optimization [AIAA PAPER 75-30] 05 p0021 A75-18269 PETROGRAPHY Evaluation of the suitability of Skylab data for the purpose of petroleum exploration [E75-10257] 07 p0147 H75-25237 PETFOLOGY Coal petrography and petrology. A bibliography 1964 - 1973 [PB-236351/3] 06 p0072 H75-16123 The influence of the petrology of the Karagandin coals on their methane contents [ELL-RTS-9309] PHASE TRANSFORMATIONS Thermodynamic considerations of 'solid state engines' based on thermoelastic martensitic transformations and the shape memory effect
absorber-heat exchanger for a solar concentrator [ASME PAPER 74-WA/SOL-1] Object 10 politis A75-1684 Thermal performance characteristics of heat pipes Object 10 politis A75-21465 Performance of a solar battery using quasi-cylindrical array of plane mirrors as a concentrator Other of lat-plate collector performance prediction from solar simulator test data [AIAA PAPER 75-741] Or politis A75-32862 Investigations of the factors affecting the performance of a rotating heat pipe Of politicators Evaluation of focusing solar energy collectors Os politectors Os politectors Os politectors Os politectors Os politectors Initial comparisons of solar collector performance data obtained out-of doors and with a solar simulator Os politicator performance of a variety of drive systems for high Reynolds number, transonic wind tunnels [BAE-TR-73134] Electronic model of the U-25 device Of politector performance evaluated outdoors at WASA-Lewis Research Center [WASA-TR-I-71689] The effect of sunshine testing on terrestrial solar cell system components [WASA-TR-I-71722] Of politic NT5-26520	Research applied to solar thermal systems [PB-241089/2] 08 p0200 H75-28543 Solar collector performance evaluation with the NASA-Lewis solar simulator-results for an all-glass-evacuated-tubular selectively-coated collector with a diffuse reflector [NASA-TH-X-71695] 08 p0207 H75-31568 PERIODIC VARIATIONS Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 PERMEABILITY Capillary flow through heat-pipe wicks [AIAA PAPER 75-661] 07 p0114 A75-32919 Fracture-induced permeability: Present situation and prospects for coal [UCID-16593] 06 p0094 H75-19830 PERTURBATION THRORY Extended energy management methods for flight performance optimization [AIAA PAPER 75-30] 05 p0021 A75-18269 PETROGRAPHY Evaluation of the suitability of Skylab data for the purpose of petroleum exploration [E75-10257] 07 p0147 H75-25237 PETFOLOGY Coal petrography and petrology. A bibliography 1964 - 1973 [PB-236351/3] 06 p0072 N75-16123 The influence of the petrology of the Karagandin coals on their methane contents [BLL-RTS-9309] PHASE TRANSPORMATIONS Thermodynamic considerations of 'solid state engines' based on thermoelastic martensitic transformations and the shape memory effect 06 p0045 A75-19631
absorber-heat exchanger for a solar concentrator [ASME PAPER 74-WA/SOL-1] Op p0018 A75-16884 Thermal performance characteristics of heat pipes Of p0046 A75-21465 Performance of a solar battery using quasi-cylindrical array of plane mirrors as a concentrator O7 p0109 A75-29478 Outdoor flat-plate collector performance prediction from solar simulator test data [AIAN PAPER 75-741] Investigations of the factors affecting the performance of a rotating heat pipe O7 p0120 A75-36357 Evaluation of focusing solar energy collectors O8 p0168 A75-40300 The effect of atmospheric turbulence on windmill performance O8 p0174 A75-44756 Initial comparisons of solar collector performance data obtained out-of doors and with a solar simulator O8 p0197 A75-47804 A generalised analysis of the performance of a variety of drive systems for high Reynolds number, transonic wind tunnels [BAE-TR-73134] Electronic model of the U-25 device O6 p0081 B75-17794 Solar collector performance evaluated outdoors at WASA-TB-X-71689] O7 p0128 E75-21794 The effect of sunshine testing on terrestrial solar cell system components [WASA-TB-X-71722] O7 p0140 E75-26520 Contribution to the improvement of the regulating	Research applied to solar thermal systems [PB-241089/2] 08 p0200 H75-28543 Solar collector performance evaluation with the NASA-Lewis solar simulator-results for an all-glass-evacuated-tubular selectively-coated collector with a diffuse reflector [NASA-TH-X-71695] 08 p0207 H75-31568 PERIODIC VARIATIOMS Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 PERHEABILITY Capillary flow through heat-pipe wicks [AIAA PAPER 75-661] 07 p0114 A75-32919 Fracture-induced permeability: Present situation and prospects for coal [UCID-16593] 06 p0094 H75-19830 PERTURBATION THEORY Extended energy management methods for flight performance optimization [AIAA PAPER 75-30] 05 p0021 A75-18269 PETROGRAPHY Evaluation of the suitability of Skylab data for the purpose of petroleum exploration [E75-10257] 07 p0147 H75-25237 PETFOLIGET Coal petrography and petrology. A bibliography 1964 - 1973 [PB-236351/3] 06 p0072 H75-16123 The influence of the petrology of the Karagandin coals on their methane contents [BIL-HTS-9309] 07 p0158 H75-27511 PHASE TRAMSFORMATIONS Thermodynamic considerations of 'solid state engines' based on thermoelastic martensitic transformations and the shape memory effect 06 p0045 A75-19631 Thermal energy storage solar storage materials
absorber-heat exchanger for a solar concentrator [ASME PAPER 74-WA/SOL-1] Op 0018 A75-16884 Thermal performance characteristics of heat pipes O6 p0046 A75-21465 Performance of a solar battery using quasi-cylindrical array of plane mirrors as a concentrator O7 p0109 A75-29478 Outdoor flat-plate collector performance prediction from solar simulator test data [AIAA PAPER 75-741] O7 p0113 A75-32862 Investigations of the factors affecting the performance of a rotating heat pipe O7 p0120 A75-36357 Evaluation of focusing solar energy collectors O8 p0168 A75-40300 The effect of atmospheric turbulence on windmill performance O8 p0174 A75-44756 Initial comparisons of solar collector performance data obtained out-of doors and with a solar simulator O8 p0197 A75-47804 A generalised analysis of the performance of a variety of drive systems for high Reynolds number, transonic wind tunnels [RAE-TR-73134] Electronic model of the U-25 device O6 p0073 M75-16572 Electronic model of the U-25 device (MSA-TB-X-71689] The effect of sunshine testing on terrestrial solar cell system components [MSA-TB-X-71722] O7 p0128 M75-21794 The effect of sunshine testing on terrestrial solar collector performance studies [PB-239758/6] O7 p0156 M75-26520 Contribution to the improvement of the regulating process of ignition controlled engines	Research applied to solar thermal systems [PB-241089/2] 08 p0200 H75-28543 Solar collector performance evaluation with the NASA-Lewis solar simulator-results for an all-glass-evacuated-tubular selectively-coated collector with a diffuse reflector [NASA-TH-X-71695] 08 p0207 H75-31568 PERIODIC VARIATIONS Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 PERREABILITY Capillary flow through heat-pipe wicks [AIAA PAPER 75-661] 07 p0114 A75-32919 Fracture-induced permeability: Present situation and prospects for coal [UCID-16593] 06 p0094 H75-19830 PERTURBATION THEORY Extended energy management methods for flight performance optimization [AIAA PAPER 75-30] 05 p0021 A75-18269 PETROGRAPHY Evaluation of the suitability of Skylab data for the purpose of petroleum exploration [E75-10257] 07 p0147 H75-25237 PETMOLOGY Coal petrography and petrology. A bibliography 1964 - 1973 [PB-236351/3] 06 p0072 H75-16123 The influence of the petrology of the Karagandin coals on their methane contents [BLL-RTS-9309] PHASE TRANSFORMATIONS Thermodynamic considerations of 'solid state engines' based on thermoelastic martensitic transformations and the shape memory effect 06 p0045 A75-19631 Thermal energy storage solar storage materials
absorber-heat exchanger for a solar concentrator [ASME PAPER 74-WA/SOL-1] Op p0018 A75-16884 Thermal performance characteristics of heat pipes Of p0046 A75-21465 Performance of a solar battery using quasi-cylindrical array of plane mirrors as a concentrator O7 p0109 A75-29478 Outdoor flat-plate collector performance prediction from solar simulator test data [AIAN PAPER 75-741] Investigations of the factors affecting the performance of a rotating heat pipe O7 p0120 A75-36357 Evaluation of focusing solar energy collectors O8 p0168 A75-40300 The effect of atmospheric turbulence on windmill performance O8 p0174 A75-44756 Initial comparisons of solar collector performance data obtained out-of doors and with a solar simulator O8 p0197 A75-47804 A generalised analysis of the performance of a variety of drive systems for high Reynolds number, transonic wind tunnels [BAE-TR-73134] Electronic model of the U-25 device O6 p0081 B75-17794 Solar collector performance evaluated outdoors at WASA-TB-X-71689] O7 p0128 E75-21794 The effect of sunshine testing on terrestrial solar cell system components [WASA-TB-X-71722] O7 p0140 E75-26520 Contribution to the improvement of the regulating	Research applied to solar thermal systems [PB-241089/2] 08 p0200 H75-28543 Solar collector performance evaluation with the NASA-Lewis solar simulator-results for an all-glass-evacuated-tubular selectively-coated collector with a diffuse reflector [NASA-TH-X-71695] 08 p0207 H75-31568 PERIODIC VARIATIOMS Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 PERHEABILITY Capillary flow through heat-pipe wicks [AIAA PAPER 75-661] 07 p0114 A75-32919 Fracture-induced permeability: Present situation and prospects for coal [UCID-16593] 06 p0094 H75-19830 PERTURBATION THEORY Extended energy management methods for flight performance optimization [AIAA PAPER 75-30] 05 p0021 A75-18269 PETROGRAPHY Evaluation of the suitability of Skylab data for the purpose of petroleum exploration [E75-10257] 07 p0147 H75-25237 PETFOLIGET Coal petrography and petrology. A bibliography 1964 - 1973 [PB-236351/3] 06 p0072 H75-16123 The influence of the petrology of the Karagandin coals on their methane contents [BIL-HTS-9309] 07 p0158 H75-27511 PHASE TRAMSFORMATIONS Thermodynamic considerations of 'solid state engines' based on thermoelastic martensitic transformations and the shape memory effect 06 p0045 A75-19631 Thermal energy storage solar storage materials

SUBJECT INDEX PHOTOVOLTAIC CELLS

PHOSPHORIC ACID The utilization of solar energy for hydrogen Phosphoric acid fuel cell stack development production by cell-free system of photosynthetic 08 p0186 A75-45943 organisms PHOTOCHEBICAL REACTIONS 08 p0176 A75-44770 Photogalvanic cells PHOTOSYNTHESIS Prospects of photosynthetic energy production 06 p0060 A75-27792 Fuel production /biomass energy/ --- by fuel 08 p0167 A75-39403 Water-splitting system synthesized by .
photochemical and thermoelectric utilizations of solar energy plantation development 07 p0111 A75-31275
Proceedings of the Workshop on Bio-Solar Conversion 08 p0190 A75-45994 Photochemical conversion of solar energy [PB-236266/3] 05 p0037 N75-14281 [PB-236142/6] 06 p0069 N75-16096 Photochemical conversion of solar energy --- study PHOTOVOLTAGES Advances in the theory and application of BSF cells --- Back Surface Field solar cells 07 p0123 A75-37402 of iron-thionine photogalvanic cells [PB-235474/4] 05 p0038 N75-14282 Photochemical conversion of solar energy [PB-235503/0] 06 p0070 N75-16106 PHOTOVOLTAIC CELLS Photochemical conversion of solar energy WASA objectives for improved solar power plants 05 p0002 A75-10485 Status of JPL solar powered experiments for 07 p0143 N75-24132 [PB-238533/4] PHOTODISSOCIATION terrestrial applications Solar energy conversion by water photodissociation 08 p0173 A75-43510 05 p0005 A75-10530 PHOTOBLECTRIC CELLS II-VI photovoltaic beterojunctions for solar Temperature sensor for photoelectric energy energy conversion 05 p0012 A75-12734 Methods for low cost manufacture of silicon solar converters 06 p0057 A75-26712 Dynamic method for calculating the series resistance of a semiconductor photoelectric arrays
[ASME PAPER 74-WA/EBER-4] 05 p0016 A75-16836 Improvements in analysis and technology of silicon converter 06 p0057 175-26713
Full-scale tests of 'photovolt' high-voltage
photocells at high light flux levels solar cells with increased efficiency 06 p0051 A75-24216 High efficiency silicon solar cells 06 p0052 A75-24217 07 p0122 A75-37162 Photoelectric energy converter temperature sensor 07 p0122 A75-37163 CdS-Cu2S cells - An outlook for terrestrial applications 06 p0052 A75-24223 Dynamic calculation of semiconductor photoconverter series resistance Further progress in the technology of silk 07 p0122 A75-37164 screened CdS solar cells Pull-scale testing of high-voltage photocells of fotovolt type at elevated light flux levels 06 p0052 A75-24225 Process development for low cost integrated solar 08 p0210 N75-32590 arravs PHOTOBLECTRIC GENERATORS 06 p0054 A75-24259 GaP p-n junctions and possibilities for their application in the conversion of solar energy The Mitre solar energy demonstration system
06 p0055 A75-24676 into electric Temperature dependence of the spectral 05 p0011 A75-12198 Testing of a photoelectric generator in a characteristics of quick-response silicon photocells mountainous region of the Azerbaidzhan SSR 06 p0057 A75-26714 07 p0119 A75-36013
Full-scale tests of 'photovolt' high-voltage
photocells at high light flux levels Dependence of the basic parameters of pendence of the maste parameters of Al/x/Ga/1-x/As-GaAs solar converters on temperature and optical intensity

07 p0112 A75-32824 07 p0122 A75-37162 The high intensity solar cell - Key to low cost photovoltaic power Investigation of the electrical and temperature characteristics of a silicon photoelectric converter under natural conditions 07 p0123 A75-37400 Sunlight to electricity: Prospects for solar energy conversion by photovoltaics --- Book 08 p0170 A75-41608 07 p0116 A75-34314
Investigation of photoelectric converter operation An Al p-silicon MOS photovoltaic cell 08 p0173 A75-43459 under conditions of strong illumination 07 p0119 A75-36015 Concentrated photovoltaic power generation systems 08 p0188 175-45963 Photoelectric generator testing in the Azerbaidzhan SSR mountains Solar photovoltaic energy [GPO-39-576] 05 p0032 N75-13379 Solar energy: Sandia's photovoltaic research 07 p0122 A75-37165 Operation of photoconverters under conditions of strong illumination program [SLA-74-281] 08 p0170 A75-41538 05 p0034 N75-13392 Workshop proceedings: Photovoltaic conversion of solar energy for terrestrial applications. Volume 1: Working group and panel reports PHOTOLUMINESCENCE: Laser induced luminescence signatures of refined and virgin crude petroleum - Their composition and remote sensing implications Volume 1: Workin [NASA-CR-138209] 06 p0069 N75-16097 Workshop proceedings: Photovoltaic conversion of solar energy for terrestrial applications. Volume 2: Invited papers 06 p0050 A75-23790 PHOTOLYSTS Photolysis of water as a solar energy conversion process - An assessment [NASA-CR-138193] 06 p0069 N75-16098 Photochemical conversion of solar energy
[PB-235503/0] 06 p0070 H75-16106 08 p0176 A75-44766 PHOTOMAPPING Net radiation and other energy-related maps from remotely sensed imagery Terrestrial photovoltaic power systems with sunlight concentration [PB-236180/6] 06 p0072 N75-16120 07 p0121 A75-36811 Photovoltaic conversion of solar energy for Terrestrial Applications. Volume 1: Working group and panel reports [PB-236163/2] 06 p0072 N75-PROTOBETRY A technique for calibrating photometric curves obtained in solar concentrator tests 08 p0180 A75-45060 06 p0072 N75-16121 Integration of photovoltaic and solar thermal PHOTOPRODUCTION Photoproduction of hydrogen via microbial and energy conversion systems [SAND-74-0093] 06 p0076 N75-16992 biochemical processes 08 p0171 A75-42279 Report and recommendations of the Solar Energy Data Workshop

[PB-238066/5]

06 p0089 N75-18757

	•	
	Terrestrial photovoltaic power systems with	PIPELINES
	sunlight concentration	Evaluation of coal-gasification technology. Part
	[PB-238582/1] 06 p0 105 H75-20886	1: Pipeline-W quality gas
	Photovoltaic cell array	[PB-234036/2] 05 p0034 #75-13396
	[NASA-CASE-MPS-22458-1] 07.p0134 N75-22900 Photovoltaic solar power systems	Dry oil
	07 p0139 N75-24098	[BLL-M-23508-(5828.4P)] 06 p0074 B75-16969 Energy statistics. A supplement to the summary of
	Space satellite power system conversion of	Bational Transportation statistics
	solar energy by photovoltaic solar cell arrays	[PB-236767/8] 07 p0130 H75-21817
	[NASA-CR-142799] 07 p0139 N75-24099	PISTON ENGINES
	The high intensity solar cell: Key to low cost	The Stirling engine for vehicle propulsion
	photovoltaic power .	06 p0050 A75-23509
	[HASA-TH-X-71718] 07 p0140 H75-24108	Stirling cycle engine and refrigeration systems
	Photochemical conversion of solar energy	[NASA-CASE-NPO-13613-1] 07 p0133 N75-22747
	[PB-238533/4] 07 p0143 H75-24132 Terrestrial photovoltaic power systems with	PITCHING MONENTS
	sunlight concentration	Unsteady aerodynamics of variable pitch vertical axis windmill
	[PB-238506/0] 07 p0143 N75-24136	[AIAA PAPER 75-649] 06 p0063 A75-28604
	Direct solar energy conversion for large scale	PLANOTRONS
	terrestial use	Analysis of technological development problems
	[PB-241007/4] 08 p0201 N75-28545	posed by use of orbital systems for energy
PH	OTOVOLTAIC CONVERSION	conversion and transfer in and from space
	Photovoltaic power generation; Proceedings of the	08 p0199 m75-28517
	International Conference, Hamburg, West Germany,	PLANTS (BOTAHY)
	September 25-27, 1974	Bio-conversion of water hyacinths into methane -
	06 p0051 A75-24213	gas, part 1
	Report on photovoltaics research and technology in the United States	[NASA-TH-X-72725] 07 p0160 H75-27564
	06 p0051 A75-24214	PLASHA COMDUCTIVITY Calculation of the electrical conductivity of the
	Bistoric development of photovoltaic power	combustion products of the working medium in an
	generation	open-cycle MHD generator
	06 p0051 A75-24215	07 p0112 A75-31568
	An analysis of photovoltaic power generation and	Effect of inhomogeneity of conductivity on end
	thermal control interfaces for solar arrays	effect in a sectional MHD generator
	06 p0053 A75-24243.	07 p0119 A75-36233
	Solar energy for earth: An AIAA assessment Book	PLASHA CONTROL
	07 p0110 A75-31267	Fusion reactors as future energy sources
	Photovoltaic power solar energy for	05 p0011 175-11735
	terrestrial applications 07 p0111 A75-31271	Current expectations for fusion power from toroidal machines
	Geosynchronous satellite solar power energy	05 p0014 A75-12996
	transmission to earth	Numerical simulation of direct energy conversion
	07 p0111 A75-31272	from fusion reactions
	Solar energy - The physics of the greenhouse effect	06 p0045 A75-19660
	07 p0120 A75-36306	The outlook for fusion energy sources - Remaining
	The conversion efficiency of ideal Shockley p-n	technological hurdles
	junction photovoltaic converters in concentrated	06 p0059 175-27782
	sunlight 07 p0120 A75-36362	Optimization of fusion power density in the
	Effect of impurity doping concentration on solar	two-energy-component tokamak reactor 07 p0124 A75-37836
	cell output	Pusion power by magnetic confinement - Plans and
	07 p0124 A75-37404	the associated need for nuclear engineers
	Solar energy powered systems - History and current	08 p0170 A75-41433
	status	Plasma physics and controlled nuclear fusion
	08 p0168 A75-40298	research 1974; Proceedings of the Fifth
	outlook for Si photovoltaic devices for	International Conference, Tokyo, Japan, November
	terrestrial solar-energy utilization	11-15, 1974. Volumes 1 & 2
	08 p0181 A75-45509	08 p0174 A75-44736
	Solar-energy materials preparation techniques 08 p0181 A75-45513	Outlook for fusion energy sources: Remaining technological hurdles
	Photovoltaic conversion of solar energy for	[UCRL-75418] 05 p0029 H75-11745
	terrestrial applications. Volume 2: Invited	PLASHA DINAMICS
	papers	Pluctuations of electric power in MBD channels
	[PB-236164/0] 06 p0072 N75-16122	07 p0110 a75-30949
	Assessment of the technology required to develop	PLASHA ELECTRODES
	photovoltaic power system for large scale	Empirical method of designing the current-voltage
	national energy applications	characteristics for the discharge mode of a
	[NSF/RA/N-74-072] 06 p0080 N75-17785 Cylindrical erbium oxide radiator structures for	thermionic converter
	thermophotovoltaic generators	06 p0057 175-26332 Concerning the use of a nitrogen-potassium gaseous
	[AD-A001525] 07 p0129 N75-21806	mixture for protection of MHD-generator
PII.	OT PLANTS	electrodes by suction
	Pilot solar air-conditioning plant and results of	07 p0112 A75-31569
	its use	PLASMA GENERATORS
	07 p0111 A75-31512	An electron beam initiated fusion neutron generator
	Operational experience - Solar heating a Boston	06 p0045 A75-19657
	school	PLASEA HEATING
	08 p0184 A75-45923 Conceptual design and economics of an MHD pilot	The outlook for fusion energy sources - Remaining
	plant	technological hurdles 06 p0059 A75-27782
	08 p0189 A75-45974	Plasma heating methods for controlled fusion
	pemonstration plant, clean boiler fuels from coal.	07 p0119 A75-35920
	Volume 3: Preliminary design/economics analysis	Blectronbeam heating for fusion
	[PB-238529/2] 07 p0142 N75-24127	07 p0120 A75-36295
	Shale retorting in a 150-ton batch-type pilot plant	PLASMA PHYSICS
	[PB-240263/4] 07 p0151 N75-25328	Energy characteristics of coaxial plasma source
	E PLOW	[AD~787419] 06 p0073 N75-16368
	Controlled heat pipes 05 p0012 A75-12912	
	VJ PVV12 R13-12512	

SUBJECT INDEX POLYBERS

PLASMA POTENTIALS	Evaluation of pollution control in fossil fuel
Ph \overline{ys} ics and potentials of fissioning plasmas for	conversion processess. Gasification, section 1:
space power and propulsion [IAF PAPER 74-087] 05 p0015 A75-1371	Synthane process [PB-237113/6] 06 p0095 #75-19879
PLASMA PROPULSION	Evaluation of pollution control in fossil fuel
Physics and potentials of fissioning plasmas for space power and propulsion	conversion processes: Gasification. Section 1: Lurgi process
[ÎMF PÂPER 74-087] 05 p0015 A75-1371	9 [PB-237694/5] 06 p0096 N75-19880
Thrust vector control by magnetic field of	Economic-environmental power dispatch 07 p0128 N75-21791
MHD-generator rocket engine [IAF PAPER 75-027] 08 p0 183 A75-4582	
PLASMA-PARTICLE INTERACTIONS Electronbeam heating for fusion	[AD-A006938] 07 p0136 N75-22953 Characterization of sulfur recovery from refinery
07 p0120 A75-3629	
PLASMAS (PHYSICS)	[PB-239777/6] 07 p0151 N75-25326
Direct conversion of plasma energy to electricity for mirror fusion reactors	Assessment of the potential of clean fuels and energy technology
[UCRL-76051] 07 p0129 N75-2180	[PB-239970/7] 07 p0162 N75-27583 Air pollution: Conference on Low Pollution Power
PLASTIC MEMORY Thermodynamic considerations of 'solid state	Systems Development
engines' based on thermoelastic martensitic	[PB-240564/5] 07 p0162 N75-27618
transformations and the shape memory effect 06 p0045 A75-1963	Development of low emission porous plate combustor for automotive gas turbine and Rankine cycle
PLASTICS	engines air pollution control
Problems of the future and potentialities of system engineering metallic materials,	[PB-240776/5] 07 p0162 N75-27619 Evaluation of pollution control in fossil fuel
plastics, traffic and energy supplies	conversion processes. Liquefaction, section 1:
[ESRO-TT-110] 06 p0107 N75-2121 PLUGGIEG	8 COED process [PB-240371/5] 07 p0162 N75-27626
Liquid plugging in in situ coal gasification	Evaluation of pollution control in fossil fuel
processes [UCRL-51686] 07 p0127 N75-2148	conversion processes: Gasification. Section 1: CO2 acceptor process
PLUTONIUM ISOTOPES	[PB-241141/1] 08 p0204 N75-29596
Two-watt radioisotope power generators for underwater applications	Report to Congress on control of sulfur oxides [PB-241021/5] 08 p0204 N75-29597
05 p0007 A75-1055	66 Financial incentives and pollution control: A
A modular heat scurce for curium-244 and	case study [PB-241479/5] 08 p0208 N75-31610
plutonium-238	Evaluation of pollution control in fossil fuel
PHEUNATIC EQUIPMENT 05 p0002 A75-1049	77 conversion processes. Liquefaction: Section 2. SRC process
Wind capture and diversion through pneumatic	[PB-241792/1] 08 p0212 N75-32627
energy recovery with large capacity aerogenerator 08 p0175 A75-4476	
POLICIES The role for Rederal B and B or alternative	pollutants in the atmosphere - A preliminary
The role for Pederal R and D on alternative automotive power systems	study about a large power plant 06 p0045 A75-21150
[PB-238771/0] 07 p0137 N75-2339	
Mineral resources and the environment. Appendix to section 1: Report of panel on materials	analysis for pollution monitoring 08 p0166 A75-39335
conservation through technology [PB-239580/4] 07 p0153 N75-2648	Inspection and maintenance of light-duty gasoline
POLITICS	implementation emissions inspection program
The energy crises 08 p0179 A75-4481	[PB-236587/2] 06 p0090 N75-18784 Pield surveillance and enforcement guide for
Oil for the free world in the 1970's demand	petroleum refineries
and supply [AD-779352] 05 p0031 N75-1244	[PB-236669/8] 06 p0090 N75-18786 Interdisciplinary study of atmospheric processes
The USA: The scientific and technical revolution	and constituents of the mid-Atlantic coastal
and trends in foreign policy [NASA-TT-P-16102] 06 p0096 N75-2016	region. Attachment 3: Data set for Craney Island oil refinery installation experiment
Materials and the new dimensions of conflict,	air pollution monitoring
revised version [AD-A004263] 07 p0154 N75-2649	[NASA-CR-142823] 07 p0141 N75-24121 Interdisciplinary study of atmospheric processes
POLLUTION CONTROL	and constituents of the mid-Atlantic coastal
Energy, hydrogen, and pollution energy technology	region. Attachment 4: Data set for background investigation of atmospheric constituents for
06 p0046 A75-2204	Nansemond River site a proposed oil refinery
A non-polluting powerplant for large airships [AIAA PAPER 75-927] 07 p0121 A75-3700	site
The EPA-Van - A clean energy system for the home	Marine pollution monitoring (petroleum):
mobile test station for nonpolluting systems 08 p0186 A75-4594	Proceedings of a Symposium and Workshop held at the National Bureau of Standards
Pollution-free electrochemical power generation	[COM-75-50071/0] 07 p0146 N75-24183
from low grade ccal [PB-236162/4] 06 p0070 N75-1610	POLYCRYSTALS 9 Polycrystalline silicon layers for solar cells
Reduction of atmospheric pollution by the	08 p0165 A75-38958
application of fluidized-bed combustion [PB-235840/6] 06 p0072 N75-1615	POLYMER PHYSICS Solid polymer electrolysis fuel cell status report
Development of high specific energy batteries for	08 p0186 a75-45942
electric vehicles [ANL-8058] 06 p0076 N75-1699	POLYMBRIC FILMS The effect of sunshine testing on terrestrial
Energy conversion from coal utilizing CPU-400	solar cell system components
technology [PB-237028/6] 06 p0083 N75-1782	07 p0123 A75-37396 POLYMERS
Background information for standards of	Oil displacement by different surfactant and
<pre>performance: Coal preparation plants. Volume 2: Summary and test data</pre>	polymer waterflood systems 07 p0134 B75-22858
[PB-237696/0] 06 p0091 N75-1879	7

POLYPHENYL ETHER SUBJECT INDEX

POLYPHENIL ETHER On the potentialities of polyphenylene oxide (PPO	An econometric analysis of fuel selection for power generation
as a wet-insulation material for cargo tanks of	
LNG-carriers	Site limitations on Solar Sea Power Plants
[REPT-194-M] 05 p0035 N75-14	
POWDS	Thermal power plants German book
An analytical and experimental investigation of a	
laboratory solar pond model	Tropical ocean thermal power plants and potential
[ASME PAPER 74-WA/SOL-3] 05 p0019 A75-16 Industrial process heat from solar energy	886 products [AIAA PAPER 75-617] 06 p0064 A75-29116
energy storage in water pond	Ground based solar energy technology advances
08 p0 190 A75-45	
Solar pond	Solar thermal subsystem specification study
[NASA-CASE-NPO-13581-1] 07 p0160 N75-27	560 [PB-238005/3] 06 p0083 N75-17829
POROUS MATERIALS	Variations in heat exchanger design for ocean
Capillary flow through heat-pipe wicks	thermal difference power plants
[AIAA PAPER 75-661] 07 p0114 A75-32	
Porous matrix structures for alkaline electrolyte fuel cells	Technical and economic feasibility of the ocean thermal differences process as a solar-driven
07 p0123 A75-37	
Electrochemical power sources heat and mass	[PB-239374/2] 07 p0150 N75-25317
transfer in porous media	Ocean thermal difference power plant turbine design
[AD-A001610] 06 p0094 N75-19	
POROUS PLATES	An analysis of the fluid motion into the condenser
Development of low emission porous plate combusto	
for automotive gas turbine and Rankine cycle engines air pollution control	power plant hydrodynamics/sea water-energy policy
[PB-240776/5] 07 p0162 N75-27	
PORTABLE EQUIPMENT	POWER SUPPLIES
Manportable thermoelectric generator	Thermodynamic analysis of a solar energy system
[AD-A002042] 06 p0095 N75-19	
POTASSIUM	06 p0049 A75-23402
A potassium topping cycle for public utility powe	
plants [AIAA PAPER 75-1235] 08 p0181 A75-45	07 p0124 A75-37656 647 Energy 10: Annual Intersociety Energy Conversion
Operational, maintenance, and environmental	and Engineering Conference, 10th, University of
problems associated with a fossil fuel-fired	Delaware, Newark, Del., August 18-22, 1975, Record
potassium steam binary vapor cycle	08 p0183 A75-45920
[ORNL-NSP-EP-30] 06 p0090 N75-18	
POWDER (PARTICLES)	journal of energy research
Solar selective surfaces made of semiconducting	[ORNI-EIS-74-52-VOL-2-NO-1] 05 p0024 N75-10592
powders [ASME PAPER 74-WA/HT-13] 05 p0017 A75-16	POWER SUPPLY CIRCUITS 857 Terrestrial applications of PEP-encapsulated solar
POWER COMDITIONING	cell modules power systems using Fluorinated
Power conversion of energy fluctuations	Ethylene Propylene encapsulation
05 p0011 A75-11	
POMER EPPICIENCY	POWER TRANSMISSION
Potential of Rankine engines to produce power fro	
waste heat streams 05 p0006 A75-10	06 p0061 A75-28439 547 Derivation of a total satellite energy system
Thermodynamics of multistage air-cooled gas turbi	
06 p0050 A75-23	
An analysis of photovoltaic power generation and	Laser energy conversion
thermal control interfaces for solar arrays	07 p0125 A75-38474
06 p0053 A75-24	
Development of a flexible, fold-out solar array	and distribution for MIUS application [NASA-TM-X-58127] 08 p0207 N75-31573
power to weight ratio for communication satellites	[NASA-TH-X-58127] 08 p0207 N75-31573 PREDICTION ANALYSIS TECHNIQUES
06 p0053 A75-24	
Power generation and efficiency in Galas	Assessment of Systems, Technologies, and
traveling-wave amplifiers	Requirements
07 p0110 A75-30	
Optimization of fusion power density in the	PRESSURE CHAMBERS
two-energy-component tokamak reactor	Prospects for utilization of underwater houses and chambers in development of marine oil deposits
07 p0124 A75-370 Lasers for fusion	05 p0029 N75-11606
08 p0166 A75-39	
Remote platform power conserving system	Methodical approach to temperature and pressure
[NASA-CASE-GSC-11182-1] 05 p0032 N75-130	
Effect of gas turbine efficiency and fuel cost on	[UCID-16631] 06 p0097 N75-20693
cost of producing electric power	PRESSURE VESSELS
[PB-234159/2] 05 p0034 N75-133	397 Low thermal flux glass-fiber/metal vessels for 1H2 storage systems
Power generation and efficiency in Galas	08 p0177 A75-44783
traveling-wave amplifiers	Procedure for preparation for shipment of natural
07 p0110 A75-30	750 gas storage vessel
POWER PLANTS	[NASA-CR-141455] 05 p0036 N75-14135
Evaluation of central solar tower power plant	Survey of hydrogen compatibility problems in
05 p0003 175-105 Closed loop chemical systems for energy	615 energy storage and energy transmission applications
transmission, conversion and storage	[SAND-74-8219] 06 p0087 N75-18726
05 p0005 A75-105	
Conceptual design of a series of laser-fusion	Non-hazardous primary lithium-organic electrolyte
power plants of 100 to 3000 MW/e/	battery BA-5590 ()/U
05 p0007 A75-105	
Concepts for central solar electric power generation 05 p0021 A75-175	
• '	·

PROBABILITY THEORY		PROPULSION SYSTEM CONFIGURATIONS	
Statistical estimation of wildcat probabilities by visual analysi	s of structure	On the future of jet propulsion in transport aviation	_
contour maps of Stafford County	, kansas 06 p0092 N75-19778	Propulsion technology needs for ad	06 p0058 175-27777
PROCEEDINGS	-	transportation systems	vanota brace
Proceedings of the 2nd Annual Ill	inois Energy		08 p0182 A75-45656
Conference [PB-240548/8]	07 p0161 ¥75-27575	Puture long-range transports: Pro	spects for
PRODUCT DEVELOPMENT	07 20101 113-27373	improved fuel efficiency [NASA-TM-X-72659]	06 p0079 N75-17339
Heat pipe manufacturing study		Propulsion units for high speed sh	ips
[NASA-CR-139140]	05 p0023 N75-10347		07 p0148 ¥75-25295
Development of advanced fuel cell [NASA-CR-134721]	system, phase 2 06 p0067 N75-16084	PROPULSION SYSTEM PERFORMANCE Floating vs flying - A propulsion	onergy comparison
Fuel gas production from solid wa			06 p0056 A75-25987
[PB-238068/1]	06 p0095 N75-19843	Availability and propulsion fu	el combustion
Methyl alcohol production by in s	itu coal	energy calculations for turbojet	
gasification [UCID-51600]	07 p0128 N75-21797	Engine development program for the	08 p0195 A75-46548 APL remotely
PRODUCTION ENGINEERING	•	piloted vehicle	:
Investigation of the technology a			06 p0065 N75-15658
lithium doped solar cells f for mass production	easibility study	Preliminary study of advanced turb energy consumption	otans for low
tot mass production	06 p0052 A75-24219		06 p0084 N75-18241
On methods for the large-scale pr		PROPULSIVE EPPICIBBOY	- ,
hydrogen from water	00 -0476 375 00773	Future long-range transports - Pro	spects for
Heat pipe manufacturing study	08 p0176 A75-44773	improved fuel efficiency [AIAA PAPER 75-316]	06 p0047 A75-22514
[NASA-CR-139140]	05 p0023 N75-10347	Floating vs flying - A propulsion	
Prospect for geothermal power			06 p0056 A75-25987
[LA-UR-74-1111]	06 p0086 N75-18723	A non-polluting powerplant for lar	
Technical evaluation services, cl solid fuels from coal	ean liquid and/or	[AIAA PAPER 75-927] Availability and propulsion fu	07 p0121 A75-37005 el combustion
[PB-237216/7]	07 p0129 N75-21803	energy calculations for turbojet	
Dependence of coal liquefaction b	ehavior on coal		08 p0195 A75-46548
characteristics [PB-238522/7]	07 p0130 N75-21812	The role of computers in future pr	opulsion controls 07 p0137 N75-23582
Insufficient utilization of scien		PROTECTIVE COATINGS	07 PO137 B73 23362
sociopolitical and economic		Principles and applications of sel	ective solar
technological development	45 4425 455 4446	coatings	
An analysis of constraints on inc	07 p0137 N75-23365	PROTOR IRRADIATION	08 p0181 A75-45511
production	reasea coar	The effects of irradiation on high	-efficiency
[PB-240613/0]	07 p0157 N75-26525	silicon solar cells	
MER: Ultimate recovery vs rate. simulation study. Volume 1		Electron and proton irradiation of	06 p0051 A75-24199
production	orr and gas	silicon solar cells	migh-efficiency
[PB-239767/7]	07 p0157 N75-26526		06 p0053 A75-24233
MER: Ultimate recovery vs rate.		Ion-beam implosion of fusion targe	
simulation study. Volume 2: A and gas production	ppendices oil	PROTOTIPES	08 p0181 A75-45386
[PB-239768/5]	07 p0157 N75-26527	A prototype solar powered, Rankine	
PRODUCTION HANAGEMENT		providing residential air condit	ioning and
Coal in Alabama [PB-236583/1]	06 p0088 N75-18736	electricity	05 p0004 A75-10523
PROJECT PLANNING	00 p0000 a.s 10.50	Solar air conditioning systems usi	
Combustion dynamics research for	'Project	cycles - Design and test results	of prototype
Independence!	05 p0001 A75-10262	three ton unit	07 p0117 A75-34931
[AIAA PAPER 74-1069] Plans and status of the NASA-Lewi		Space and energy conservation hous:	
wind energy project		unit development	
P	08 p0197 A75-47802		07 p0160 N75-27567
Program plan for environmental ef [PB-235115/3]	05 p0040 N75-15177	PUBLIC HEALTH Report of the Interagency Working	Group on health
Research and technology operating		and environmental effects of ener	
Piscal year 1975 research and t	echnology program		06 p0084 N75-17858
space programs, energy tech	nology, and	PUBLIC RELATIONS The energy crisis and decision mak:	ing in the family
aerospace sciences [NASA-TM-X-70410]	06 p0096 N75-20155		06 p0106 N75-21028
Review of Project Independence Bl		PULSE GENERATORS	_
subcommittee reports on FRA-int	eragency task	Chemical to electromagnetic energy	
forces [COM-75-10500/7]	08 p0203 N75-29553	techniques explosive flux contechnology	mpression
The NASA-Lewis/ERDA solar heating			05 p0026 N75-10609
technology program project		PULSED LASERS	
policy	09 p0210 #75_22502	Laser compression of matter - Option	car bower and
[NASA-TH-X-71800] Power shortage contingency progra	08 p0210 N75-32592	energy requirements	06 p0046 A75-22352
Northwest. Legislative, regula		Lasers for fusion	
institutional aspects			08 p0166 A75-39333
[PB-241323/5]	08 p0211 N75-32601	PUMPING Ontimising numbed storage with tide	al nower in an
PROMETRIUM Advanced betavoltaic power source	s	Optimising pumped storage with tide estuary	rr homer in qu
	05 p0007 A75-10563	[ASME PAPER 74-WA/PWR-7]	05 p0018 A75-16881
PROPELLANT TRANSPER	hnalass of	PUMPS	
How spacecraft are fueled tec fueling spacecraft for flight	unoroda or	Some generalizations of sample water calculations for solar-powered pu	
[JPRS-63514]	05 p0027 N75-10983		5 p0020 A75-17077

PIROBLECTRICITY SUBJECT INDEX

Solar powered pump [MASA-CASE-NPO-13567-1] PYBOBLECTRICITY	07 p0133 H75-22746	The effects of irradiation on high-e silicon solar cells	fficiency p0051 A75-2	7.100
Dielectric power conversion	-08 p0189 A75-45979	The effect of sunshine testing on te solar cell system components		4 199
PYROLYSIS			p0123 A75-3	7796
Thermolysis of water for the gene		RADIATION HAZARDS	•	,,,,,,
	06 p0049 A75-23504	Soil burial of radioisotopic fuel ca	psules	
Hydrogen production from decompos	sition of water by		p0046 A75-2	1274
means of nuclear reactor heat	08 p0175 A75-44760	RADIATION HEASUREMENT Net radiation and other energy-relat	ed Bane from	1
Thermochemical water cracking us:		remotely sensed imagery	p0121 A75-3	
An analysis of hydrogen production		RADIATION SHIELDING	Poist Eig-3	
closed-cycle schemes thermo processings from water		Optimisation of solar cell shielding geostationary missions	for	
	08 p0176 A75-44771	06	p0051 A75-2	4203
Evaluation of multi-step thermocl		RADIATIVE HEAT TRANSPER		
for the production of hydrogen	08 p0177 A75-44778	Study of channel-type systems for so radiative heat transport	rar-energy	
Considerations on iron-chloride-			p0010 A75-1	1196
in relation to thermochemical	ater-splitting	A study of channel systems for radia		
	08 p0177 A75-44779	solar-heat transfer		
Thermochemical hydrogen production	on research at		p0049 175-2	3408
Lawrence Livermore Laboratory	08 p0177 A75-44780	Radiation cooling of structures with transparent wind screens	initated	
Analysis of thermochemical water-			p0167 A75-3	9407
energy efficiency evaluation		Thermodynamic analysis and parameter		
	C8 p0177 A75-44781	of a solar thermoelectric power un		
Parametric study for a pyrolytic		radiation heat dissipation	-0000 775 4	7040
production of fuels from agricutor forestry wastes	iltural and	[AD-A000211] 06 RADIOACTIVE ISOTOPES	p0082 N75-1	7819
Totabell wascos	08 p0187 A75-45950	Efficient thermo-mechanical generati	on of	
High-efficiency electrochemical p		electricity from the heat of radio		
**************************************	08 p0189 A75-45977		p0192 A75-4	6013
Retorting indexes for oil-shale perhylene-ethane ratios of produ		SENSE 2: Space applications of nucl Volume 1: Commercial communicatio	ear power. ns satellite	
[PB-234050/3]	05 p0034 N75-13399		p0065 N75-1	5742
Pyrolysis system evaluation study	, -	Multi-hundred watt radioisotope ther	moelectric	
[NASA-CR-141664]	06 p0086 N75-18722	generator program, part 1 grou	nd support	
An economic analysis of oil shale featuring gas combustion retort		equipment and safety management [GESP-7107-PT-1] 06	p0092 N75-1	03511
[PB-237851/1]	06 p0093 N75-19813	Multi-hundred watt radioisotope ther		7334
Production of gaseous fuel by pyr		generator program, part 2 grou		
municipal solid waste	07 0440 775 04405	equipment		
[NASA-CR-141791] Energy recovery from solid waste.	07 p0140 N75-24105		p0092 N75-1	9355
Technical report pyrolysis	and biodegradation	Heat transfer design and proof tests radioisotope thermoelectric genera		
[NASA-CR-2526]	07 p0148 N75-25292		p0092 175-1	9608
PYROMETALLURGY		BADIOACTIVE WASTES	_	
Bureau of Mines research 1973. S significant results in mining,		Soil burial of radioisotopic fuel ca	p0046 A75-2	1 27 h
energy	metalidigy, and	Nuclear system that burns its own was		12/4
[PB-234733/4]	05 p0040 N75-15171	promise		
PYROTECHNICS	laine sensata		p0085 N75-1	8716
Energy conversion. 1: Non-propu fuels and pyrotechnics	itsive aspects	RADIOISOTOPE BATTERIES RTG technology development - Where we	are/where	
[AD-A000077]	06 p0079 N75-17454	are going radioisotope thermoe.		# =
•	-	generator		
R			p0002 A75-16	0496
RADIART FLUX DENSITY		A modular heat source for curium-244 plutonium-238	and	
Experience in setting up solar-en	ergy survey for		p0002 A75-16	0497
Azerbaidzhan		A 10% efficient economic RTG design		
m	05 p0020 A75-17081	radioisotope thermoelectric general		
Method for calculating solar radi semicylindrical collectors	ation for	Cost effective designing for the eco	p0003 A75-10	
Semicilinarious conscious	06 p0057 A75-26718	radioisotope thermoelectric general		
RADIANT HEATING	•		p0003 A75~10	0507
Solar energy trap	05 0000 000	Light-weight radioisotope thermoelec	ric generata:	O E
[NASA-CASE-MPS-22744-1] RADIATION ABSORPTION	05 p0024 N75-10586	design	p0003 A75-10	0 5 0 0
Solar ponds for space heating	energy storage	Two-watt radioisotope power generator		0.00
by convectionless shallow water	:	underwater applications		
	07 p0109 A75-29471		p0007 A75-10	0556
RADIATION DAMAGE Investigation of the technology a	nd performance of	Advanced betavoltaic power sources	p0007 A75-10	1562
lithium doped solar cells f	easibility study	Soil burial of radioisotopic fuel cap		3303
for mass production		06	p0046 A75-2	1274
ma	06 p0052 A75-24219	RTG electrical power for spacecraft		
Electron and proton irradiation o silicon solar cells	r nigh-erriciency	Radioisotope Thermoelectric General		6067
SITICOR SOLDE CELLS.	06 p0053 A75-24233	Low-power turbines using organic wapo	p0057 A75-26 r	/
RADIATION EPPECTS			p0110 A75-30	892
Radiation effects on high efficie	ncy silicon-solar	Nuclear heat source for cryogenic ref	rigerators i	in
cells	'06 p0051 A75-24197	space Pu-238 battery design	p0191 A75-46	5006
	, and bear 1212-24131	Radioisotope space power generator	P-131 B/3-40	,000
			p0038 N75-14	1832

ADIOLYSIS Aqueous homogeneous reactor for hydrogen production 08 p0175 A75~44761	RATES (PER TIME) Time factors in slowing down the rate of growth of demand for primary energy in the United States
AIL TRANSPORTATION	06 p0059 A75-27780
Energy efficiency of current intercity passenger transportation modes	REACTION KINETICS On methods for the large-scale production of
[AIAA PAPER 75-314] 06 p0047 A75-22513	hydrogen from water
Transportation vehicle energy intensities. A	08 p0176 A75-44773
joint DOT/NASA reference paper energy	Considerations on iron-chloride-oxygen reactions in relation to thermochemical water-splitting
consumption of air and ground vehicles [NASA-TM-X-62404] 05 p0035 N75-13690	08 p0177 A75-44779
Industrial energy studies of ground freight	Thermochemical hydrogen production research at
transportation, volume 1	Lawrence Livermore Laboratory
[PB-236016/2] 06 p0069 N75-16099	08 p0177 A75-44780
Industrial energy studies of ground freight transportation. Volume 2: Appendices	Analysis of thermochemical water-splitting cycles energy efficiency evaluation
[PB-236017/0'] 06 p0069 N75-16100	08 p0177 A75-44781
Energy intensity of barge and rail freight hauling	Retorting indexes for oil-shale pyrolyses from
[PB-240012/5] 08 p0202 N75-29269	ethylene-ethane ratios of product gases [PB-234050/3] 05 p0034 N75-13399
Technology considerations for Organic Rankine	Summary report of workshop on Energy Related Basic
Cycle Electric Power Systems	Combustion Research
05 p0002 A75-10484	[PB-236714/2] 06 p0079 N75-17456
A prototype solar powered, Rankine Cycle system	Conversion of cellulosic wastes to oil
providing residential air conditioning and	[PB-240839/1] 07 p0161 N75-27572
electricity	REACTOR CORES
05 p0004 A75-10523	Applications of plasma core reactors to
Potential of Rankine engines to produce power from waste heat streams	terrestrial energy systems [AIAA PAPER 74-1074] 05 p0010 A75-11281
05 p0006 A75-10547	Physics and potentials of fissioning plasmas for
Assessment of Rankine cycle for potential	space power and propulsion
application to solar-powered cooling of buildings	[IAF PAPER 74-087] 05 p0015 A75-13719
[ASHE PAPER 74-WA/SOL-7] 05 p0019 A75-16890	REACTOR DESIGN
Solar air conditioning systems using Rankine power	Conceptual design of a series of laser-fusion
cycles - Design and test results of prototype	power plants of 100 to 3000 MW/e/
three ton unit	05 p0007 A75-10562
07 p0117 A75-34931 A non-polluting powerplant for large airships	Component design considerations for gas turbine HTGR power plant High-Temperature Gas-cooled
[AIAA PAPER 75-927] 07 p0121 A75-37005	Reactor
Cooling with the sun's heat - Design	[ASME PAPER 75-GT-67] 07 p0116 A75~34620
considerations and test data for a Rankine Cycle	Environmental aspects of fusion reactors
prototype	08 p0170 A75~41434
08 p0167 A75-39409	Cryogenic engineering and fusion power
A potassium topping cycle for public utility power	superconducting magnet application to reactor
plants [AIAA PAPER 75-1235] 08 p0181 A75-45647	design 08 p0173 A75~43979
Design and operation of a solar-powered	Aqueous homogeneous reactor for hydrogen production
turbocompressor air-conditioning and heating	08 p0175 A75~44761
system	Application of nuclear rocket technology to light
08 p0186 A75-45939	weight nuclear propulsion and commercial nuclear
Topping cycle applications of thermionic conversion	process heat systems
08 p0188 A75-45972	[AIAA PAPER 75-1261] 08 p0182 A75-45661 Clinch River Breeder Reactor: A combined power
Evaluation of solar-assisted Rankine cycle concept for the cooling of buildings	and fuel spurce
08 p0194 A75-46040	[COMP-740609-4] 05 p0038 H75-14593
Organic Rankine cycle silent power plant 1.5 kW,	Advanced concepts in fusion-fission hybrid reactors ?
28 volts dc	[UCRL-75835] 07 p0131 N75-22113
[AD-A000900] 06 p0088 N75-18745	BEACTOR MATERIALS
Assessment of the Rankine cycle for potential	Foreseeable thermal, mechanical, and materials
application to solar powered cooling of buildings [PB-238069/9] 06 p0089 N75-18755	engineering problems of fusion reactor power plants
[PB-238069/9] 06 p0089 N75-18755 Sizing of focused solar collector fields with	[SHRT PAPER A2/1] 06 p0046 A75-21713
specified collector tube inlet temperature	HIT fusion technology program nuclear reactors
Rankine cycle	and reactor materials
[SLA-74-5288] 06 p0094 N75-19832	[COO-2431-1] 06 p0106 N75-21101
Peasibility demonstration of a solar powered	REACTOR TECHNOLOGY
turbocompressor air conditioning and heating	Current expectations for fusion power from
system [PB-238570/6] 07 p0130 N75-21816	toroidal machines 05 p0014 A75-12996
Ocean thermal difference power plant turbine design	Foreseeable thermal, mechanical, and materials
[PB-239371/8] 07 p0150 #75-25318	engineering problems of fusion reactor power
Development of low emission porous plate combustor	plants
for automotive gas turbine and Rankine cycle	[SMRT PAPER A2/1] 06 p0046 A75-21713
engines air pollution control	The economics of nuclear power
[PB-240776/5] 07 p0162 B75-27619	06 p0047 A75-22734 Electronbean heating for fusion
Liquid-metal binary cycles for stationary power [MASA-TN-D-7955] 08 p0205 M75-30649	07 p0120 A75-36295
PAPED TRANSIT SYSTEMS	Gaseous fuel nuclear reactor research
Getting at the big facts in transportation	08 p0168 A75-40177
private and public transit efficiencies	Bigh-temperature nuclear reactors as an energy
08 p0173 A75-42973	source for hydrogen production
Caltech seminar series on energy consumption in	08 p0175 A75-44758
Private transportation	The technology and economies of hydrogen
[PB-235348/0] 05 p0040 N75-15179 Energy use of public transit systems	production from fusion reactors 08 p0176 175-44767
[PB-241351/6] 08 p0209 H75-31962	Thermal power conversion systems for fusion plants

Review of direct energy conversion of ion beams:	Nuclear heat source for cryogenic refrigerators in
Experimental results and reactor applications [UCRL-75600] 05 p0028 N75-11	space Pu-238 battery design
[UCRL-75600] 05 p0028 N75-11 Survey of applications of fusion power technology	
to the chemical and material processing industr	
[BNL-18866] 05 p0031 N75-12	
Nuclear power growth, 1974 - 2000 forecasting future reactor technology	Stirling cycle engine and refrigeration systems [NASA-CASE-NPO-13613-1] 07 p0133 N75-2274
[WASH-1139-74] 05 p0031 N75-12	
RECLAMATION	Recuperator development trends for future high
Biological conversion of organic refuse to methan [PB-235468/6] 05 p0041 B75-15	
RECYCLING	183 [ASME PAPER 75-GT-50] 07 p0116 A75-3460 Evaluation of a fossil fuel fired ceramic
Bureau of Mines research programs on recycling an	d regenerative heat exchanger '
disposal of mineral, metal, and energy-based wastes	[PB-236346/3] 06 p0092 N75-1959
[PB-227476/9] 05 p0042 N75-15	REGERERATIVE COOLING 203 Evaluation of solar-assisted Rankine cycle concept
RED SEA	for the cooling of buildings
The hot deeps of the Red Sea as a potential heat	08 p0194 A75-4604
source for thermoelectric power generation 05 p0004 A75-10	BEGIONAL PLANNING 516 Regional economics: A subset of simulation of the
REDUCTION (CHEMISTRY)	effects of coal-fired power development in the
Electrically rechargeable redox flow cells	four corners region
05 p0008 A75-10. Redox thermogalvanic cells for direct energy	
Conversion	Evaluation of power facilities; A reviewer's handbook electric and nuclear power plants
08 p0191 A75-45	999 [PB-239221/5] 07 p0146 B75-2419
Development of a soluble reactants and products	Regional impacts of alternative energy allocation
secondary battery 07 p0127 N75-21	strategies environmental impact of energy 790 crisis and its shortages
REFIBING	[PB-241125/4] 08 p0205 N75-3066
Impact of motor gasoline lead additive regulations	
on petroleum refineries and energy resources, 1974-1980, phase 1	[PB-241126/2] 08 p0205 N75-3094 Design considerations for a comprehensive regional
[PB-234185/7] 05 p0025 N75-100	energy information system
National Crude Oil Refinery Development Act, part	
[GPO-35-578] 05 p0027 N75-100 The National Coal Conversion Act and the National	360 REGULATIONS Institutional and environmental problems in
Crude Oil Refinery Development Act	geothermal resource development
[GPO-28-964] 05 p0027 N75-108	and the contract of the contra
Retorting indexes for oil-shale pyrolyses from ethylene-ethane ratios of product gases	Preliminary investigation into regulatory powers and policies on electric utility peak load pricin
[PB-234050/3] 05 p0034 N75-133	
Effects of changing the proportions of automotive	BELIABILITY ABALYSIS
distillate and gasoline produced by petroleum refining	Operating experiences with terrestrial solar battery systems in Japan
[PB-236900/7] 06 p0085 N75-184	
Industrial energy study of the petroleum refining	Compatibility and reliability of heat pipe materials
industry [PB-238671/2] 07 p0130 N75-218	[AIAA PAPER 75-660] 07 p0114 A75-3291 B18 Estimates of the reliability of energy-supply
A simulation model of the development of petroleum	
refining capacity using recursive linear	08 p0181 A75-4506
programming [AD-A003723] 07 p0161 N75-275	BELIABILITY ENGINEERING OPEN Development of a thermal battery for emergency
REPRACTORY MATERIALS	radio power under arctic conditions
Aluminum mitride and silicon mitride for	05 p0007 A75-10560
high-temperature vehicular gas turbine engines 05 p0011 A75-113	Silicon solar cells for highly concentrated sunlight 62 07 p0120 A75-3636
Corrosion studies of materials for auxiliary	Generation of electric power at high reliability
equipment in MHD power plants	levels using a group of solar power plants in an
06 p0055 A75-243 Materials screening program for the LLL geothermal	
project	Principles of a composite study involving combined
[UCRL-75353] 06 p0082 N75-178	115 use of solar and wind energy
Refractory materials for coal-fueled MHD power	07 p0122 A75-37160
generation [PB-239607/5] 07 p0157 N75-265	Generalizations of composite studies involving combined use of wind and solar energy
REPRIGERATING	07 p0122 A75-3716
Power conversion of energy fluctuations 05 p0011 A75-114	Wind capture and diversion through pneumatic
Solar energy storage within the absorption cycle	97 energy recovery with large capacity aerogenerators 08 p0175 A75-44762
[ASME PAPER 74-WA/HT-18] 05 p0017 A75-168	64 Preliminary results of the large experimental wind
REFRIGERATING MACHINERY Selection and evaluation of the University of	turbine phase of the national wind energy program
Florida's solar powered absorption air	08 p0196 A75-47798
conditioning system	Some aspects of a solar battery system and its use
[ASHE PAPER 74-WA/SOL-6] 05 p0019 A75-168	
Cooling by solar heat heating and cooling system for buildings	06 p0054 A75-24256 Testing of a photoelectric generator in a
[AIAA PAPER 75-609] 06 p0062 A75-285	90 mountainous region of the Azerbaidzhan SSR
Statistical relation between heat transfer from a	06 p0057 A75-26714
closed area and meteorological parameters during the use of a solar refrigerating plant	Photoelectric generator testing in the Azerbaidzhan SSR mountains
08 p0169 A75-410	72 07 p0122 A75-37165
Study on parameter variations for solar powered	REMOTE SENSORS
lithium bromide absorption cooling 08 p0186 A75-459	Hilliwatt fuel cell system for sensors 05 p0008 A75-10565

SUBJECT INDEX RESERVES

Laser induced luminescence signatures of refined and virgin crude petroleum - Their composition	Research and technology operating plan summary: Piscal year 1975 research and technology program
and remote sensing implications 06 p0050 A75-23790	space programs, energy technology, and aerospace sciences
Remote sensing applied to energy-related problems; Proceedings of the Symposium-Course, diami,	(NASA-TM-K-70410] 06 p0096 N75-20155 Wind power installations. Present condition and
Pla., December 2-4, 1974 07 p0118 A75-35451	possible lines of development [NASA-TT-F-16204] 07 p0128 H75-21796
Remote sensing for Western coal and oil shale	Energy B/D Data Workshop
development planning and environmental analysis 07 p0118 A75~35458	[PB-237493/2] 07 p0130 H75-21811 A review of the Project Independence report
Determining potential solar power sites in western	submitted to Office of Energy Research and
hemisphere ocean and land areas based upon satellite observations of cloud cover	Development, National Science Poundation, 10
07 p0118 A75~35461	January 1975 [PB-238791/8] 07 p0131 H75-21823
Bultispectral data systems for energy related	The role for Pederal B and D on alternative
problems strip mining and power plant site monitoring	automotive power systems [PB-238771/0] 07 p0137 N75-23391
07 p0118 A75~35464	MSF-RANN energy abstracts. A monthly abstract
Remote sensing applied to mine subsidence - Experience in Pennsylvania and the Midwest	journal of energy research [ORNL-EIS-74-52-VOL-2-NO-6]
07 p0121 A75~36809	Solar Energy Research, Development, and
BHOTELY PILOTED VEHICLES	Demonstration Act of 1974
Engine development program for the APL remotely piloted vehicle	[GPO-39-827] 07 p0149 N75-25299 Materials technology in the near-term energy program
[AD-787507] 06 p0065 N75-15658	[PB~240942/3] 08 p0205 N75-30665
BNDEZVOUS TRAJECTORIES Solar electric propulsion spacecraft power	Solar Energy Research, Development, and Demonstration Act of 1974
subsystem for an Encke comet rendezvous mission	[GPO-39-827] 08 p0207 N75-31567
05 p0002 A75-10481	A systems approach to innovative solutions to the
RQUIREMENTS Bnergy-related research and development in the	energy problem [PB~242189/9] 08 p0213 N75-33505
United States Air Porce	RESEARCH FACILITIES
06 p0075 H75-16979 ESBARCH	The Plorida Solar Energy Center 08 p0169 A75-40614
Radioisotope space power generator	Mission and organization of the DPVLR: Two years
[GA-A-12848] 05 p0038 N75-14832 RSEARCH AND DEVELOPMENT	of integrated society of German aeronautical and space flight research
Combustion dynamics research for 'Project	[NASA-TT-F-16086] 05 p0035 N75-13882
Independence' [AIAA PAPER 74-1069] 05 p0001 A75-10262	Solar collector performance evaluated outdoors at NASA-Lewis Research Center
Combustion R&D - Key to our energy future	[NASA-TM-x-71689] 07 p0128 N75-21794
pollution reduction using hydrocarbon fuels 05 p0009 A75-10596	Incorporating energy conservation techniques in the operation of existing LeRC R and D facilities
Wind energy developments in the 20th century	energy policy/NASA programs
05 p0020 A75-17503 Technology utilization - Incentives and solar energy	[NASA-TH-X-71813] 08 p0212 N75-33494 RESEARCH HANAGEMENT.
06 p0048 A75-22913	Rationale for setting priorities for new energy
The application of aerospace technology in the cryogenics field	technology research and development [UCRL-51511] 05 p0024 N75-10594
06 p0048 A75-23239	Electric power systems analysis research
Report on photovoltaics research and technology in the United States	[PB-239236/3] 07 p0143 N75-24139 Institutional and legal constraints to cooperative
06 p0051 A75-24214	energy research and development
Progress in the development of cadmium sulphide terrestrial solar batteries	[PB-240929/0] 08 p0200 N75-2853C RESEARCH PROJECTS
06 p0052 A75-24224	Roles for solar thermal conversion systems in our
 Development of a flexible, fold-out solar array power to weight ratio for communication 	energy economy 06 p0059 A75-27784
satellites	The 1974 AGARD Annual Meeting: The energy
06 p0053 A75-24252 The future of silicon solar cells for terrestrial	problem: Impacts on military research and development
use	06 p0075 N75-16977
06 p0058 A75-27717	Geothermal reservoir engineering research 06 p0101 N75-20853
DPVLR activities in the area of energy research 07 p0118 A75-35096	Phase 0 study for a geothermal superheated water
Energy survey - What can R&D do by 1985 fossil	proof of concept facility 06 p0102 N75-20858
fuel utilization 08 p0169 A75-40617	Scientific research seeks new sources of energy
Research opportunities in cryogenic	06 p0107 N75-21216
hydrogen-energy systems 08 p0171 A75-42280	Various research tasks related to energy information and data activities: Task 4
Energy transportation, distribution, and storage	priorities analysis
[WASH-1281-4] 05 p0024 N75-10595 A review of the status of MHD power generation	[PB-240424/2] 07 p0151 N75-25329 Scientific research in power engineering
technology including suggestions for a Canadian	[JPRS-65422] 08 p0205 N75-30648
MHD research program [UTIAS-39] 05 p0035 N75-13641	RESERVES The reserve base of bituminous coal and anthracite
Bureau of Mines energy program, 1973 discovery	for underground mining in the Eastern United
and production of oil, gas, and fluid fuels [PB-234682/3] 05 p0040 N75-15172	States [PB-237815/6] 06 p0085 N75-18713
Idaho geothermal R and D project report for period	Mineral resources and the environment. Appendix
16 December 1973 - 15 March 1974	to section 1: Report of panel on materials conservation through technology
[ANCR-1155] 06 p0076 N75-16985 Recommended research program in geothermal chemistry	[PB-239580/4] 07 p0153 N75-26487
[WASH-1344] 06 p0077 N75-16997 US energy R and D policy: The role of economics	Mineral resources and the environment. Appendix to section 2: Report of panel on estimation of
[RFF-WORKING-PAPER-EN-4] 06 p0080 N75-17783	mineral reserves and resources
	[PB-239581/2] 07 p0153 N75-26488

RESERVOIRS	Geophy
Optimising pumped storage with tidal power in an	inve
estuary	Impe:
[ASME PAPER 74-WA/PWR-7] 05 p0018 A75-16881	[IGP
Relationships of earth fracture systems to	The Co
productivity of a gas storage reservoir	
[PB-237894/1] 06 p0089 N75-18759	Heat f
RESIDENTIAL AREAS	äesa
A case study - Utilization of solar energy in	a bedo
residential dwellings [ASME PAPER 74-WA/SOL-2] 05 p0018 A75-16885	A brie: expl
The Solar Community - Energy for residential	ewbr.
heating, cooling, and electrical power	Havaii
06 p0059 A75-27785	54444
Design and construction of a residential solar	Beasur:
heating and cooling system	Impe
07 p0109 A75-29472	-
Residential energy conservation	Imperia
[TID-26534] 05 p0031 N75-12442	geoti
Design and construction of a residential solar	
heating and cooling system	The La
[PB-237042/7] 06 p0082 B75-17823	prog
The development of a solar residential heating and	
cooling system	The to
[NASA-CR-142728] 07 p0140 N75-24107	CODA
The residential user and the electrical load factor	San Die
[PB-238535/9] 07 p0145 N75-24152 Project conserve, a pilot project in homeowner	geoti
energy conservation	geot
[PB-240407/7] 07 p0161 H75-27577	Progres
Investigation of current university research	ener
concerning energy conversion and conservation in	
small single-family dwellings	The Har
[NASA-CR-143430] 08 p0207 N75-31570	
RESORANT PREQUENCIES	Preli=:
A resonant point absorber of ocean-wave power	oper
08 p0170 A75-41425	Vall ∢
RESOURCE ALLOCATION	
Oversight: Mandatory petroleum allocation programs	Geòthe
[GPO-31-027] 06 p0081 H75-17806	
glectric power rights: One approach to rationing	Geothe
[PB-238537/5] 07 p0143 H75-24138 An approach to the power shortage problem:	Phase (
Optimal allocation of existing excess reserves	proof
through interregional transmission	PI-00.
[PB-238578/9] 07 p0144 N75-24151	Coopera
gnergy rationing and energy conservation:	đeve
Foundations for a social policy	
[PB-239766] 07 p0162 N75-27579	Energy
RESOURCES HANAGEMENT	[PB-
U.S. energy resources - Outlook for the future	Nation
05 p0014 A75-12999	[PB-
gnergy. Volume 1 - Demands, resources, impact,	Evaluat
technology, and policy Book	the p
06 p0045 A75-20066 gnergy supply and demand challenges and some	[B75- Energy
possible solutions	[GPO-
06 p0059 A75-27779	Bnergy
Fuels, minerals, and human survival Book	resou
07 p0117 A75-34850	[GPO-
How might the hydrogen economy affect our	Five ye
resources and environment	energ
· 08 p0179 A75-44809	denor
rublic works for water and power development and	[PB-2
Atomic Energy Commission Appropriation Bill,	Hineral
1975. Part 6: Tennessee Valley Authority	conse
[GPO-32-403] 05 p0026 B75-10859	[PB-
project Independence	An anal
05 p0029 N75-12428	produ
<pre>gnergy from US and Canadian tar sands: Technical, environmental, economic, legislative, and policy</pre>	[PB-2
aspects	Nationa manag
[GPO-43-005] 06 p0067 N75-16083	[PB-2
gnergy resources and utilization	Energy
06 p0075 N75-16983	Admin
Intermediate-term energy programs to protect	surve
against crude-petroleum import interruptions:	[PB-2
Peasible alternatives, program costs, and	Energy
operational methods of funding	Admin
[PB-237209/2] 06 p0083 H75-17826	study
methanol from forestry, nunicipal, and	[PB-2
agricultural organic residues	Energy
[BNWL-SA-5053] 06 p0085 N75-18702	Admin
Overview of Reclamation's geothermal program in Imperial Valley, California	energ [PB-2
06 p0098 N75-20835	Energy
30 pooso 2.5 20033	Admin

```
sical, geochemical, and geological stigations of the Dunes geothermal system, crial Valley, California P-UCR-74-31] 06 p0098 875-2
                                            06 p0098 N75-20836
      lorado School of Mines Newada geothermal study
06 p0099 N75-20837
low and geothermal potential of the East
KGRA, Imperial Valley, California
     06 p0099 M75-20838
of description of geological and geophysical
coration of the Marysville geothermal area
06 p0099 M75-20839
       geothermal project
                                            06 p0099 #75-20840
      ing ground movement in geothermal areas of rial Valley, California
                                            06 p0099 #75-20842
      al Valley's proposal to develop a guide for
      hermal development within its county
06 p0100 g75-20844
wrence Berkeley Laboratory geothermal
      ram in northern Nevada
      06 p0100 B75-20845 tal flow concept for geothermal energy
      ersion
                                           06 p0100 N75-20846
      ego Gas and Electric Company Imperial Valley
      hermal activities
                                           06 p0100 ¥75-20847
      ss of the LASL dry hot rock geothermal
      gy project
                                           06 p0100 #75-20848
      rysville, Montana Geothermal Project
      06 p0100 N75-20849 inary results of geothermal desalting
      ations at the Bast Mesa test site Imperial ey, California
                                           06 p0101 N75-20850
      rmal reservoir engineering research
                                           06 p0101 N75-20853
      rmal down well pumping system
                                           06 p0101 N75-20854
      0 study for a geothermal superheated water f of concept facility
                                           06 p0102 N75-20858
      ative efforts by industry and government to
      lop geothermal resources
                                           06 p0102 875-20861
       system modeling-interfuel competition
      239292/6]
                                           07 p0143 N75-24140
      al energy flow accounts
239275/1]
                                           07 p0146 N75-24539
      tion of the suitability of Skylab data for
      purpose of petroleum exploration
                                           07 p0147 H75-25237
      -10257]
      policy and resource management
                                           07 p0149 N75-25300
       33-6341
      legislation --- energy conservation and
      urces management
      -33-571]
                                           07 p0149 N75-25301
      ear program planning document for end use
      gy conservation, research, development, and
      stration
      240406/9]
                                           07 p0152 875-25331
      resources and the environment --- energy
      erwation and energy policy
                                           07 p0153 N75-26486
      239579/6] 07 p0153 m
lysis of constraints on increased coal
      240613/0]
                                           07 p0157 N75-26525
      al materials policy --- earth resources
      gement
                                           08 p0199 N75-28503
      conservation study of Veterans
histration hospitals. Stage 1: Base line
      4 1095/9]
                                          08 p0203 N75-29559
      conservation study of Veterans distration hospitals. Stage 2: Operational
                                          08 p0203 N75-29560
      08 p0203 N75-:
conservation study of Veterans
nistration hospitals. Stage 3: Hospital
gy control system
241097/5] 08 p0203 N75-:
                                           08 p0203 N75-29561
hergy conservation study of Veterans
Administration hospitals. Stage 4: Basic
detail data for stage 1, 2, and 3
```

08 p0203 N75-29562

[PB-241098/3]

Regional impacts of alternative energy allocation strategies environmental impact of energy	Dimensions/NBS, volume 59, number 2, February 1975 energy conservation, safety management,
crisis and its shortages [PB-241125/4] 08 p0205 N75-30667	toxic hazards
[PB-241125/4] 08 p0205 N75-30667 The need for a national materials policy, part 1	[COM-75-50141/02] 07 p0151 N75-25330 Technology and current practices for processing,
[GPO-39-885] 08 p0209 N75-31954	transferring and storing liquefied natural gas
The need for a national materials policy, part 2	[PB-241048/8] 08 p0202 N75-29271
[GPO-40-687] 08 p0209 N75-31955	National Bureau of Standards annual report:
The need for a national materials policy, part 3	Piscal year 1974 including a discussion of
[GPO-40-687] 08 p0209 N75-31956	measuring instruments, energy, safety
ROCKET ENGINE DESIGN	engineering, and computers
Lasers investigated for space propulsion	[COM-75-10465/3] 08 p0206 N75-30948
06 p0061 A75-28439	Study of potential for motor vehicle fuel economy improvement. Safety implications panel report
Application of rocket engine technology to energy 08 p0185 A75-45933	no. 2
ROCKS	[PB-241772/3] 08 p0212 N75-33410
Geothermal energy: A new application of rock	SATELLITE ANTENNAS
mechanics	Latest developments of the circular solar array
[LA-UR-74-821] 06 p0068 N75-16089	with deployment structure for central antenna communication satellite
ROCKY MOUNTAINS (MORTH AMBRICA) Progress and problems in developing nuclear and	06 p0053 A75-24246
other experimental techniques for recovering	Report on studies of space to earth microwave
natural gas in the Rocky Mountain area;	power transmission systems
[B-164105] 06 p0075 N75-16975 ROTATING BODIES	[IAP PAPER 75-005] 08 p0183 A75-45814
Investigations of the factors affecting the	SATELLITE ATTITUDE CONTROL Effect of attitude constraints on solar-electric
performance of a rotating heat pipe	geocentric transfers
07 p0120 A75-36357	[AIAA PAPER 75-350] 06 p0055 A75-24957
ROTATING ELECTRICAL MACHINES A high-speed superconducting generator	Design and testing of an energy flywheel for an Integrated Power/Attitude Control System /IPACS/
06 p0060 A75-27960	[AIAA PAPER 75-1107] 08 p0171 A75-41669
ROTATING GENERATORS	SATELLITE DESIGN
Electrical generating equipment and electric	The technology of the solar generator on the
utility requirements for high-power wind generator systems	Symphonie satellite 06 p0053 A75-24237
08 p0193 A75-46025	Power generation for the X4 spacecraft - A step in
Wind power system optimization	the development of a high power/mass ratio,
ROTOR AERODYNAMICS 08 p0193 A75-46026	hybrid solar array for applications spacecraft 06 p0053 A75-24251
Unsteady aerodynamics of variable pitch vertical	The satellite solar power station option for
axis windmill	solar energy transmission to earth
[AIAA PAPER 75-649] 06 p0063 A75-28604 ROTOR BLADES	07 p0118 A75-35465 Deployable Symphonie solar generator
The effect of atmospheric turbulence on windmill	[IAP PAPER 75-009] 08 p0183 A75-45819
performance	The ATS-6 power system - An optimized design for
08 p0174 A75-44756 Wind capture and diversion through pneumatic	maximum power source utilization 08 p0192 A75-46017
energy recovery with large capacity aerogenerators	
	SATELLITE INSTRUMENTS
08 p0175 A75-44762	A flexible crypgenic heat pipe
08 p0175 A75-44762 ROTOR BLADES (TURBONACHINERY)	A flexible crypgenic heat pipe [AIAA PAPER 75-658] 07 p0114 A75-32916
08 p0175 A75-44762 ROTOR BLADES (TURBOMACHINERY) Structural analysis of wind turbine rotors for	A flexible cryogenic heat pipe [AIAA PAPER 75-658] 07 p0114 A75-32916 SATELLITE OBSERVATION Determining potential solar power sites in western
08 p0175 A75-44762 BOTOR BLADES (TURBOHACHINERY) Structural analysis of wind turbine rotors for NSF-NASA Mod-0 wind power system [NASA-TM-I-3198] 06 p0080 N75-17712	A flexible cryogenic heat pipe [AIAA PAPER 75-658] 07 p0114 A75-32916 SATELLITE OBSERVATIOB Determining potential solar power sites in western hemisphere ocean and land areas based upon
08 p0175 A75-44762 BOTOR BLADES (TURBOHACHINERY) Structural analysis of wind turbine rotors for NSF-NASA Mod-0 wind power system [NASA-TM-X-3198] 06 p0080 N75-17712 Applied aerodynamics of wind power machines	A flexible cryogenic heat pipe [AIAA PAPER 75-658] 07 p0114 A75-32916 SATELLITE OBSERVATION Determining potential solar power sites in western hemisphere ocean and land areas based upon satellite observations of cloud cover.
08 p0175 A75-44762 BOTOR BLADES (TURBOHACHINERY) Structural analysis of wind turbine rotors for NSF-NASA Mod-0 wind power system [NASA-TM-I-3198] 06 p0080 N75-17712	A flexible cryogenic heat pipe [AIAA PAPER 75-658] 07 p0114 A75-32916 SATELLITE OBSERVATIOB Determining potential solar power sites in western hemisphere ocean and land areas based upon
08 p0175 A75-44762 BOTOR BLADES (TURBOMACHINERY) Structural analysis of wind turbine rotors for NSF-NASA Bod-0 wind power system [NASA-TM-X-3198] Applied aerodynamics of wind power machines rotor blades (turbomachinery) [PB-238595/3] BOVER PROJECT	A flexible crypgenic heat pipe [AIAA PAPER 75-658] 07 p0114 A75-32916 SATELLITE OBSERVATIOE Determining potential solar power sites in western hemisphere ocean and land areas based upon satellite observations of cloud cover. 07 p0118 A75-35461 SATELLITE POWER TRANSMISSION (TO BARTH) The satellite solar power station - An option for
08 p0175 A75-44762 ROTOR BLADES (TURBOMACHINERY) Structural analysis of wind turbine rotors for NSF-MSA Mod-0 wind power system [NASA-TM-I-3198] Applied aerodynamics of wind power machines rotor blades (turbomachinery) [PB-238595/3] ROVER PROJECT Application of technology from the Rover program	A flexible crypgenic heat pipe [AIAA PAPER 75-658] STELLITE OBSERVATION Determining potential solar power sites in western hemisphere ocean and land areas based upon satellite observations of cloud cover. O7 p0118 A75-35461 SATELLITE POWER TRANSHISSION (TO BARTH) The satellite solar power station - An option for energy production on earth
08 p0175 A75-44762 ROTOR BLADES (TURBOHACHINERY) Structural analysis of wind turbine rotors for NSF-NASA Mod-0 wind power system [NASA-TM-X-3198] Applied aerodynamics of wind power machines rotor blades (turbomachinery) [PB-238595/3] ROVER PROJECT Application of technology from the Rover program and related developments to energy needs	A flexible cryogenic heat pipe [AIAA PAPER 75-658] SATELLITE OBSERVATION Determining potential solar power sites in western hemisphere ocean and land areas based upon satellite observations of cloud cover. 07 p0118 A75-35461 SATELLITE POWER TRANSMISSION (TO BARTH) The satellite solar power station - An option for energy production on earth [AIAA PAPER 75-637] 06 p0063 A75-28600
O8 p0175 A75-44762 ROTOR BLADES (TURBOMACHINERY) Structural analysis of wind turbine rotors for NSF-MSA Mod-0 wind power system [NASA-TM-X-3198] Applied aerodynamics of wind power machines rotor blades (turbomachinery) [PB-238595/3] ROVER PROJECT Application of technology from the Rover program and related developments to energy needs [LA-5558] RUBBER	A flexible crypgenic heat pipe [AIAA PAPER 75-658] SATELLITE OBSERVATIOB Determining potential solar power sites in western hemisphere ocean and land areas based upon satellite observations of cloud cover. 07 p0118 A75-35461 SATELLITE POWER TRANSMISSION (TO BARTH) The satellite solar power station - An option for energy production on earth [AIAA PAPER 75-637] The adaptation of free space power transmission technology to the SSPS concept Satellite
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ROTOR BLADES (TURBOMACHINERY) Structural analysis of wind turbine rotors for NSF-NASA Mod-0 wind power system [NASA-TM-X-3198] Applied aerodynamics of wind power machines rotor blades (turbomachinery) [PB-238595/3] ROVER PROJECT Application of technology from the Rover program and related developments to energy needs [LA-5558] RUBBER An evaluation of discarded tires as a potential source of fuel 05 p0012 A75-12416 An evaluation: The potential of discarded tires as a source of fuel [NASA-TM-X-58143] SAPETY DEVICES Non-hazardous primary lithium-organic electrolyte battery BA-5590 ()/U [AD-A003312] SAPETY PACTORS Procedure for preparation for shipment of natural gas storage vessel [NASA-CR-141455] SAPETY HAMAGERBEET Cryogenics safety in a hydrogen fuel society 06 p0061 A75-27973 Operational, maintenance, and environmental problems associated with a fossil fuel-fired potassium steam binary vapor cycle	A flexible crypgenic heat pipe [AIAA PAPER 75-658] SATELLITE OBSERVATION Determining potential solar power sites in western hemisphere ocean and land areas based upon satellite observations of cloud cover. O7 p0118 A75-35461 SATELLITE POWER TRANSMISSION (TO BARTH) The satellite solar power station - An option for energy production on earth [AIAA PAPER 75-637] The adaptation of free space power transmission technology to the SSPS concept Satellite. Solar Power Stations [AIAA PAPER 75-642] Geosynchronous satellite solar power energy transmission to earth O7 p0111 A75-31272 Satellites for energy transmission to earth - Technical and socioeconomic studies O7 p0125 A75-38644 Report on studies of space to earth microwave power transmission systems [IAP PAPER 75-005] The satellite solar power station - A step toward the industrial use of space [IAF PAPER 75-003] Solar power generation systems as sources of non-polluting energy (power generation in space and power generation on the ground) [MASA-TT-P-16091] Analysis of technological development problems posed by use of orbital systems for energy conversion and transfer in and from space 08 p0199 M75-28517
ROTOR BLADES (TURBOMACHINERY) Structural analysis of wind turbine rotors for NST-MSA Mod-0 wind power system [NASA-TM-I-3198] 06 p0080 N75-17712 Applied aerodynamics of wind power machines rotor blades (turbomachinery) [PB-238595/3] 07 p0133 N75-22669 ROVER PROJECT Application of technology from the Rover program and related developments to energy needs [LA-5558] 05 p0028 N75-11468 RUBBER An evaluation of discarded tires as a potential source of fuel 05 p0012 A75-12416 An evaluation: The potential of discarded tires as a source of fuel [NASA-TH-I-58143] 05 p0038 N75-15153 SAFETY DEVICES Non-hazardous primary lithium-organic electrolyte battery BA-5590 ()/U [AD-A003312] 07 p0129 N75-21804 SAFETY PACTORS Procedure for preparation for shipment of natural gas storage vessel [NASA-CR-141455] 05 p0036 N75-14135 SAFETY HATMGERENT Cryogenics safety in a hydrogen fuel society 06 p0061 A75-27973 Operational, maintenance, and environmental problems associated with a fossil fuel-fired	A flexible cryogenic heat pipe [AIAA PAPER 75-658] STELLITE OBSERVATION Determining potential solar power sites in western hemisphere ocean and land areas based upon satellite observations of cloud cover. O7 p0118 A75-35461 SATELLITE POWER TRANSMISSION (TO BARTH) The satellite solar power station - An option for energy production on earth [AIAA PAPER 75-637] The adaptation of free space power transmission technology to the SSPS concept Satellite Solar Power Stations [AIAA PAPER 75-642] Geosynchronous satellite solar power energy transmission to earth Technical and socioeconomic studies O7 p0111 A75-31272 Satellites for energy transmission to earth - Technical and socioeconomic studies [IAP PAPER 75-005] The satellite solar power station - A step toward the industrial use of space [IAP PAPER 75-005] Solar power generating systems as sources of non-polluting energy (power generation in space and power generation on the ground) [MASA-TT-P-16091] Analysis of technological development problems posed by use of orbital systems for energy conversion and transfer in and from space 08 p0199 M75-28517 SATELLITE SOLAR EMERGY CONVERSION Analysis of different systems concerning the energy distribution on board a satellite
ROTOR BLADES (TURBOMACHINERY) Structural analysis of wind turbine rotors for NSF-NASA Mod-0 wind power system [NASA-TM-X-3198] Applied aerodynamics of wind power machines rotor blades (turbomachinery) [PB-238595/3] ROVER PROJECT Application of technology from the Rover program and related developments to energy needs [LA-5558] RUBBER An evaluation of discarded tires as a potential source of fuel An evaluation: The potential of discarded tires as a source of fuel [HASA-TM-X-58143] SSAPETY DEVICES Non-hazardous primary lithium-organic electrolyte battery BA-5590 ()/U [AD-A003312] SAPETY PACTORS Procedure for preparation for shipment of natural gas storage vessel [NASA-CR-141455] SAPETY HATAGERERET Cryogenics safety in a hydrogen fuel society 06 p0061 A75-27973 Operational, maintenance, and environmental problems dssociated with a fossil fuel-fired potassium steam binary vapor cycle [ORNL-NSF-RP-30] Bulti-hundred watt radioisotope thermoelectric generator program, part 1 ground support	A flexible crypgenic heat pipe [AIAA PAPER 75-658] SATELLITE OBSERVATION Determining potential solar power sites in western hemisphere ocean and land areas based upon satellite observations of cloud cover. O7 p0118 A75-35461 SATELLITE POWER TRANSMISSION (TO BARTH) The satellite solar power station - An option for energy production on earth [AIAA PAPER 75-637] The adaptation of free space power transmission technology to the SSPS concept Satellite Solar Power Stations [AIAA PAPER 75-642] Geosynchronous satellite solar power energy transmission to earth O7 p0111 A75-31272 Satellites for energy transmission to earth - Technical and socioeconomic studies O7 p0125 A75-38644 Report on studies of space to earth microwave power transmission systems [IAP PAPER 75-005] The satellite solar power station - A step toward the industrial use of space [IAF PAPER 75-003] Solar power generating systems as sources of non-polluting energy (power generation in space and power generation on the ground) [NASA-TT-F-16091] Analysis of technological development problems posed by use of orbital systems for energy conversion and transfer in and from space 08 p0199 N75-28517
ROTOR BLADES (TURBOMACHINERY) Structural analysis of wind turbine rotors for NSF-MASA Mod-0 wind power system [NASA-TM-X-3198] Applied aerodynamics of wind power machines rotor blades (turbomachinery) [PB-238595/3] ROVER PROJECT Application of technology from the Rover program and related developments to energy needs [LA-5558] RUBBER An evaluation of discarded tires as a potential source of fuel An evaluation: The potential of discarded tires as a source of fuel [NASA-TM-X-58143] SAPETY DEVICES Non-hazardous primary lithium-organic electrolyte battery BA-5590 ()/U [AD-A003312] SAPETY PACTORS. Procedure for preparation for shipment of natural gas storage vessel [NASA-CR-41455] SAPETY HANAGEBERT Cryogenics safety in a hydrogen fuel society 06 p0061 A75-27973 Operational, maintenance, and environmental problems dissociated with a fossil fuel-fired potassium steam binary vapor cycle [ORBI-NSF-EP-30] Bulti-hundred watt radioisotope thermoelectric generator program, part 1 ground support equipment and safety management	A flexible cryogenic heat pipe [AIAA PAPER 75-658] STELLITE OBSERVATION Determining potential solar power sites in western hemisphere ocean and land areas based upon satellite observations of cloud cover. O7 p0118 A75-35461 SATELLITE POWER TRANSMISSION (TO BARTH) The satellite solar power station - An option for energy production on earth [AIAA PAPER 75-637] The adaptation of free space power transmission technology to the SSPS concept Satellite Solar Power Stations [AIAA PAPER 75-642] Geosynchronous satellite solar power energy transmission to earth O7 p0111 A75-31272 Satellites for energy transmission to earth Technical and socioeconomic studies (IAP PAPER 75-005) The satellite solar power station - A step toward the industrial use of space [IAP PAPER 75-003] Solar power generating systems as sources of non-polluting energy (power generation in space and power generation on the ground) [MASA-TT-P-16091] MASA-TT-P-16091] Analysis of technological development problems posed by use of orbital systems for energy conversion and transfer in and from space 08 p0199 N75-28517 SATELLITE SOLAR EMERGY CONVERSION Analysis of different systems concerning the energy distribution on board a satellite
ROTOR BLADES (TURBOMACHINERY) Structural analysis of wind turbine rotors for NSF-NASA Mod-0 wind power system [NASA-TM-X-3198] Applied aerodynamics of wind power machines rotor blades (turbomachinery) [PB-238595/3] ROVER PROJECT Application of technology from the Rover program and related developments to energy needs [LA-5558] RUBBER An evaluation of discarded tires as a potential source of fuel An evaluation: The potential of discarded tires as a source of fuel [HASA-TM-X-58143] SSAPETY DEVICES Non-hazardous primary lithium-organic electrolyte battery BA-5590 ()/U [AD-A003312] SAPETY PACTORS Procedure for preparation for shipment of natural gas storage vessel [NASA-CR-141455] SAPETY HATAGERERET Cryogenics safety in a hydrogen fuel society 06 p0061 A75-27973 Operational, maintenance, and environmental problems dssociated with a fossil fuel-fired potassium steam binary vapor cycle [ORNL-NSF-RP-30] Bulti-hundred watt radioisotope thermoelectric generator program, part 1 ground support	A flexible cryogenic heat pipe [AIAA PAPER 75-658] STELLITE OBSERVATION Determining potential solar power sites in western hemisphere ocean and land areas based upon satellite observations of cloud cover. O7 p0118 A75-35461 SATELLITE POWER TRANSMISSION (TO BARTH) The satellite solar power station - An option for energy production on earth [AIAA PAPER 75-637] The adaptation of free space power transmission technology to the SSPS concept Satellite Solar Power Stations [AIAA PAPER 75-642] Geosynchronous satellite solar power energy transmission to earth O7 p0111 A75-31272 Satellites for energy transmission to earth - Technical and socioeconomic studies (IAP PAPER 75-005) The satellite solar power station - A step toward the industrial use of space [IAP PAPER 75-003] Solar power generating systems as sources of non-polluting energy (power generation in space and power generation on the ground) [MASA-TT-P-16091] MASA-TT-P-16091] Analysis of technological development problems posed by use of orbital systems for energy conversion and transfer in and from space 08 p0199 M75-28517 SATELLITE SOLAR EMERGY CONVERSION Analysis of different systems concerning the energy distribution on board a satellite

Geosynchronous satellite solar power energy transmission to earth	SCIENTISTS Demand for scientific and technical manpower in
07 p0111 a75-3127	2 energy-related industries: United States
Storage of energy in kinetic batteries for an earth resources satellite	1970-1985
[IAF PAPER ST-75-09] 08 p0183 a75-4587	[PB-240865] 08 p0201 N75+2896
The satellite solar power station - A step toward	Bureau of Mines research programs on recycling and
the industrial use of space	disposal of mineral, metal, and energy-based
[IAF PAPER 75-003] 08 p0183 A75-4590	
A comparison of the COMSAT violet and	[PB-227476/9] 05 p0042 N75-1520
non-reflective cells	SEA GRASSES
08 p0192 A75-4601	5 The oceanic biomass energy plantation seaweed
The ATS-6 power system - An optimized design for	harvesting for food and fuel
maximum power source utilization	[AIAA PAPER 75-635] 06 p0063 A75-28599
08 p0192 A75-4601	
Orbital solar energy technology advances 08 p0192 A75-4601	Steady state free convection in an unconfined
Solar power generating systems as sources of	8 geothermal reservoir 05 p0009 A75-11069
non-polluting energy (power generation in space	Electrolysis of sea water for hydrogen fuel
and power generation on the ground)	production
[NASA-TT-F-16091] 05 p0033 N75-1338	3 08 p0176 175-44775
Analysis of technological development problems	Solar sea power
posed by use of orbital systems for energy	[PB-235469/4] 05 p0038 N75-14284
conversion and transfer in and from space	Solar sea power axial flow pumps
08 p0199 N75-2851 SATELLITE SOLAR POWER STATIONS	7 [PB-236997/3] 06 p0082 #75-1782' Peasibility study of a 100 megawatt open cycle
The satellite solar power station - An option for	ocean thermal difference power plant
energy production on earth	[PB-238571/4] 07 p0130 N75-21821
[AIAA PAPER 75-637] 06 p0063 A75-2860	
Overcoming two significant hurdles to space power	thermal differences process as a solar-driven
generation Transportation and assembly	energy process
[AIAA PAPER 75-641] 06 p0063 A75-2860	
The adaptation of free space power transmission technology to the SSPS concept Satellite	Ocean thermal difference power plant turbine design [PB-239371/8] 07 p0150 N75-25318
Solar Power Stations	An analysis of the fluid motion into the condenser
[AIAA PAPER 75-642] 06 p0063 A75-2860	
Derivation of a total satellite energy system	power plant hydrodynamics/sea water-energy
solar power station for terrestrial consumption	policy
[AIAA PAPER 75-640] 06 p0064 A75-29118	
The satellite solar power station option for solar energy transmission to earth	SECONDARY INJECTION Evaluation of thermal methods for recovery of
07 p0118 A75-3546	
An overview of solar energy applications	[PB-237831/3] 06 p0090 N75-18762
08 p0166 A75-3919	
Economic analysis of space-based electric power generation and transmission systems	Energy and security: Implications for American policy
[IAF PAPER 75-006] 08 p0183 A75-4582	9 [AD-785084] 05 p0032 N75-12857
The satellite solar power station - A step toward	SEDIMENTARY ROCKS
the industrial use of space	Stratigraphy, sedimentology and oil and gas
[IAF PAPER 75-003] 08 p0 183 A75-4590	
Solar power generating systems as sources of non-polluting energy (power generation in space	07 p0137 b75-22961
and power generation on the ground)	Righ efficiency thermoelectric generator
[NASA-TT-F-16091] 05 p0033 N75-1338	
The modular solar energy satellite: Investigation	SBISHOLOGY
on large solar cell surfaces in space for the	Heasuring ground movement in geothermal areas of
purpose of earth power supply	Taperial Valley, California
[ILR-17-1974] 05 p0036 N75-1427 Peasibility study of a satellite solar power station	
[NASA-CR-2357] 07 p0138 N75-23683	
Analysis of technological development problems	are going radioisotope thermoelectric
posed by use of crbital systems for energy	generator
conversion and transfer in and from space	05 p0002 A75-10496
O8 p0199 N75-28517	7 A 10% efficient economic BTG design radioisotope thermoelectric generator
Development of a flexible, fold-out solar array	05 p0003 A75-10506
power to weight ratio for communication	RTG electrical power for spacecraft
satellites	Radioisotope Thermoelectric Generators
06 p0053 A75-24252	
A practical model law for chemical explosive	SEMICOBDUCTING FILMS High efficiency thermoelectric generator
fracture of oil shale 06 p0078 N75-17023	
SCHOOLS	Dynamic method for calculating the series
Solar energy school heating augmentation	resistance of a semiconductor photoelectric
experiment. Design, construction and	converter
construction and initial operation	06 p0057 A75-26713
[PB-239397/3] -07 p0 f50 875-25314	A 15% efficient antireflection-coated metal-oride-semiconductor solar cell
CHOTTRY DIODES Temperature effects in Schottky-barrier silicon	07 p0119 A75-36275
solar cells	Dynamic calculation of semiconductor
07 p0115 A75-34175	photoconverter series resistance
Enhancement of Schottky solar cell efficiency	07 p0122 A75-37164
above its semiempirical limit 08 p0171 A75-42166	Thick semiconductor films for photothermal solar
Design considerations in Schottky solar cells	energy conversion (08 p0165 A75-38956
08 p0188 A75-45962	
	SENICORDUCTOR DEVICES
	Advanced betavoltaic power sources 05 p0007 A75-10563

SUBJECT INDEX SILICON JUNCTIONS

	·
Solar cells - Operation, development and applications	Determination of carbonate minerals of Green River formation oil shales, Piceance Creek Basin,
05 p0015 A75-15201	Colorado
Effectiveness of using semiconductor heat pumps	[PB-240669/2] 07 p0159 H75-27554
under the conditions of the Turkmen SSR	Technological feasibility of alternative energy
05 p0020 A75-17083	sources a discussion of coal gasification,
Effect of heat transfer from the lateral surfaces	geothermal energy, and shale oil
of semiconductor thermocouples on the energy	[AD-A005549] 08 p0199 H75-28522
characteristics of a thermoelectric generator	SHALES
05 p0021 A75-18798	A practical model law for chemical explosive
Enhancement of Schottky solar cell efficiency	fracture of oil shale
above its semiempirical limit	06 p0078 N75-17023
08 p0171 A75-42166 Devices based on thermoelectrical phenomena	Rechanical properties of oil shale from Anvil
	Point under conditions of uniaxial compression
[AD-783821] 05 p0026 #75-10836 Development of low cost thin film polycrystalline	[SAND-74-0035] 06 p0092 N75-19390
silicon solar cells for terrestrial applications	In situ oil shale conversion and recovery
[PB-238505/2] 06 p0105 N75-20890	[SLA-74-0162] 06 p0093 H75-19825 The identification of gamma-valerolactone in waste
SBHICONDUCTOR JUNCTIONS	from an oil-shale in situ retort
Technique for producing 'good' Gals solar cells	determination of chemical composition by mass
using poor-quality substrates	spectroscopy of effluents from crude oil shales
08 p0195 A75-46721	causing water pollution
Glass-Si heterojunction solar cells	[PB-240098/4] 07 p0147 N75-24852
[PB-239282/7] 07 p0145 N75-24156	Producing SWG by hydrogasifying in situ crude
SBRICONDUCTORS (MATERIALS)	shale oil
Solar selective surfaces made of semiconducting	[PB-240841/7] 08 p0201 N75-28548
powders	SHORT HAUL AIRCRAFT
[ASME PAPER 74-WA/HT-13] 05 p0017 A75-16857	Design of short haul aircraft for fuel conservation
SEPARATORS	[SAE PAPER 750587] 08 p0169 a75-40502
Porous matrix structures for alkaline electrolyte	Evaluation of advanced lift concepts and potential
fuel cells	fuel conservation for short-haul aircraft
07 p0123 A75-37243	[NASA-CR-2502] 06 p0073 N75-16557
SERVICE LIFE	Evaluation of advanced lift concepts and fuel
Development of a thermal battery for emergency radio power under arctic conditions	conservative short-haul aircraft, volume 1
05 p0007 A75-10560	[NASA-CR-137525] 06 p0096 N75-20291 Evaluation of advanced lift concepts and fuel
A novel negative-limited sealed nickel-cadmium cell	conservative short-haul aircraft, volume 2
05 p0008 A75-10571	[NASA-CR-137526] 06 p0097 N75-20292
Solar cell modules for lightweight solar arrays	SIBERIA
onboard communication satellites	Improving the oil storage system of western Siberia
06 p0057 A75-26068	[AD-A002717] 06 p0092 H75-19705
Compatibility and reliability of heat pipe materials	SILICON
[AIAA PAPER 75-660] 07 p0114 A75-32918	Solar selective surfaces made of semiconducting
CdS/Cu2S solar cells, their potential and	powders
limitations	[ASME PAPER 74-WA/HT-13] 05 p0017 A75-16857
08 p0188 A75-45961 The practical lithium/poly-carbonmonofluoride	Polycrystalline silicon layers for solar cells 08 p0165 A75-38958
battery system	Indium tin oxide-coated silicon as a selective
08 p0188 175-45964	absorber for solar radiation
Nickel-hydrogen secondary battery	08 p0195 A75-46951
08 p0 191 A75-45997	Development of low cost thin film polycrystalline
Solar-thermal electric power generation using a	silicon solar cells for terrestrial applications
system of distributed parabolic trough collectors	[PB-238505/2] 06 p0105 B75-20890
[AICHE PAPER 12] 08 p0196 A75-47511 SBWAGE	V-grooved silicon solar cells [NASA-TM-X-71715] 07 p0141 H75-24119
Laboratory semiautomatic infrared device for	Research and development of low cost processes for
determining the composition of petroleum	integrated solar arrays
products in sewage	[PB-239760/2] 07 p0156 H75-26519
07 p0125 A75-38648	SILICON FILMS
SHALE OIL	Methods for low cost manufacture of silicon solar
Shale from oil shale economically	arrays
08 p0168 175-40182	[ASME PAPER 74-WA/EMER-4] 05 p0016 A75-16836
Economic impact of the oil shale industry in western Colorado	SILICON JUNCTIONS The effects of irradiation on high-efficiency
[GPO+28-608] 05 p0024 N75-10588	silicon solar cells
Oil shale development, part 2	06 p0051 A75-24199
[GPO-30-368] 05 p0027 #75-11455	Improvements in analysis and technology of silicon
Retorting indexes for oil-shale pyrolyses from	solar cells with increased efficiency
ethylene-ethane ratios of product gases	06 p0051 A75-24216
[PB-234050/3] 05 p0034 N75-13399	High efficiency silicon solar cells
Primary data on economic activity and water use in	06 p0052 A75-24217 Development and space qualification of new
prototype oil shale development areas of Colorado: An initial inquiry	high-efficiency silicon solar cells
[PB-236039/4] 05 p0037 N75-14277	06 p0052 A75-24218
Prototype oil shale leasing program	Investigation of the technology and performance of
[GPO-28-686] 05 p0039 N75-15160	lithium doped solar cells feasibility study
ABC in situ oil shale program	for mass production
[UCID-16520] 06 p0068 N75-16090	06 p0052 A75-24219
Average oil yeild tables for oil shale sequences	High-speed silicon processing for low cost solar
in cores from the Uinta Basin, Utah, that	cells - A comparative analysis
average 15, 20, 25, 30, 35, and 40 gallons per ton [PB-236068/3] 06 p0072 H75-16124	06 p0052 A75-24222 Performance of advanced silicon solar cells in a
Pollutional problems and research needs for an oil	space environment
shale industry	06 p0052 175-24232
[PB-236608/6] 06 p0084 H75-17848	The future of silicon solar cells for terrestrial
In situ oil shale: A cost sensitivity analysis	use
[SAND-74-0146] 06 p0087 N75-18727	06 p0058 A75-27717
Shale retorting in a 150-ton batch-type pilot plant	•
[PB-240263/4] 07 p0151 H75-25328	

SILICON NITRIDES SUBJECT INDEX

Investigation of the electrical and temperature characteristics of a silicon photoelectric converter under natural conditions The technology of the solar generator on the Symphonic satellite 06 p0053 A75-24237 07 p0116 A75-34314 An analysis of photovoltaic power generation and Temperature dependence of the spectral thermal control interfaces --- for solar arrays characteristics of quick-response silicon 06 p0053 A75-24243 photocells Latest developments of the circular solar array -- with deployment structure for central 07 p0119 A75-36013 V-grooved silicon solar cells antenna communication satellite 07 p0123 A75-37397 06 p0053 A75-24246 Design and qualification of the CTS solar cell blanket --- onboard Canadian Communications Effects of high doping levels on silicon solar cell performance Technology Satellite O6 p0053 A75-24248

Power generation for the I4 spacecraft - A step in
the development of a high power/mass ratio,
hybrid solar array for applications spacecraft An Al p-silicon MOS photovoltaic cell 08 p0173 A75-43459 Outlook for Si photovoltaic devices for terrestrial solar-energy utilization 08 p0181 A75-45509 06 p0053 A75-24251 Development of a flexible, fold-out solar array
--- power to weight ratio for communication
satellites Design considerations in Schottky solar cells 08 p0188 A75-45962 SILICON NITRIDES 06 p0053 A75-24252 Aluminum nitride and silicon nitride for Solar cell modules for lightweight solar arrays
--- onboard communication satellites high-temperature vehicular gas turbine engines 05 p0011 A75-11362 06 p0057 A75-26068 Transparent heat-mirror films of TiO2/Ag/TiO2 for solar energy collection and radiation insulation 05 p0015 A75-.16378 Photovoltaic power --- solar energy for terrestrial applications 07 p0111 A75-31271
Power collection reduction by mirror surface
nonflatness and tracking error for a central SINTERING Bigh energy density sintered plate type sealed nickel cadmium battery cells. I - The positive electrode/plaque relationships receiver solar power system 07 p0120 A75-36305
The nation's first private industrial solar
heating system - General Electric's Valley Forge 05 p0008 A75-10569 High energy density sintered plate type nickel-cadmium battery cells. II - Electrochemical impregnation methods to produce Space Center 08 p0 184 A75-45925 SEPS solar array design and technology evaluation 08 p0192 A75-46016 nickel oxide electrodes 05 p0008 A75-10570 SITES The ATS-6 power system - An optimized design for maximum power source utilization Nuclear energy center site survey:
[PB-240453/1]
SIZE DETERNIBATION : Scope of work 07 p0152 N75-25348 08 p0192 A75-46017 Test report SEPS solar array root section model [NASA-CR-120606] 06 p0067 B75-16085 Cost and size estimates for an electrochemical bulk energy storage concept [NASA-TM-X-71805] Solar Power Array for the Concentration of Energy U8 p0210 N75-32593 (SPACE) SKYLAB 4 . The detection of geothermal areas from Skylab (PB-236247/3] 06 p0071 N75-16114
Cost competitiveness of a solar cell array power source for ATS-6 educational TV terminal [NASA-TH-X-71720] 07 p0140 N75-24110 thermal data [NASA-CR-143133] SNAP 19 07 p0158 N75-27540 Research on solar cell arrays and electric energy [PB-239338/7] 07 p0155 M75-26504 [PB-239338/7] 07 p0155 N75-265 Research and development of low cost processes for SNAP 19 Viking RTG flight configuration and integration testing --- Radioisotope Thermoelectric Generator integrated solar arrays 05 p0003 A75-10504 [PB-239760/2] 07 p0156 N75-26519 SHOW COVER SOLAR CELLS Snow and ice removal from pavements using stored earth energy --- via heat pipes Solar cell and array standardization for Air Force spacecraft [PB-240623/9] 07 p0162 N75-27581 05 p0002 A75-10486 SOCIAL PACTORS Analysis of conversion efficiency of Social and environmental context of the hydrogen organic-semiconductor solar cells 05 p0010 A75-11146 economy Recent advances in components of space power systems
[IMP PAPER 74-083] 05 p0014 A75-13715
Solar cells - Operation, development and 08 p0179 A75-44807 SODIUM CAREONATES Coal gasification by Atomics International's Rockgas process applications [ASME PAPER 74-WA/PWR-11] 05 p0018 A75-16883 05 p0015 A75-15201 SOIL MAPPING Radiation effects on high efficiency silicon-solar Helium survey, a possible technique for locating quothermal reservoirs cells 06 p0051 A75-24197 The effects of irradiation on high-efficiency 07 p0118 A75-35438 SOIL MOISTURE silicon solar cells 06 p0051 A75-24199
Optimisation of solar cell shielding for geostationary winding An agro-power-waste water complex for land disposal of waste heat and waste water 239675/2] 07 p0161 N75-27570 geostationary missions [PB SOLAR ARRAYS 06 p0051 A75-24203 NASA objectives for improved solar power plants 05 p0002 A75-10485 Solar cell and array standardization for hir Force Photovoltaic power generation; Proceedings of the International Conference, Hamburg, West Germany, September 25-27, 1974 spacecraft 06 p0051 A75-24213 Improvements in analysis and technology of silicon 05 p0002 A75-10486 Status of JPL solar powered experiments for terrestrial applications solar cells with increased efficiency 06 p0051 A75-24216 05 p0005 A75-10530 Methods for low cost manufacture of silicon solar High efficiency silicon solar cells 06 p0052 A75-24217 Development and space qualification of new [ASME PAPER 74-WA/ENER-4] 05 p0016 A75-16836 high-efficiency silicon solar cells Report on photovoltaics research and technology in the United States 06 p0052 A75-24218

06 p0051 A75-24214

SUBJECT INDEX SOLAR CELLS CONTO

Investigation of the technology and performance of lithium doped solar cells --- feasibility study for mass production The effect of sunshine testing on terrestrial solar cell system components 07 p0123 A75-37396 06 p0052 A75-24219 V-grooved silicon solar cells speed silicon processing for low cost solar 07 p0123 A75-37397 cells - A comparative analysis The high intensity solar cell - Key to low cost 06 p0052 A75-24222 photovoltaic power CdS-Cu2S cells - An outlook for terrestrial 07 p0123 A75-37400 applications Advances in the theory and application of BSP cells 06 p0052 A75-24223 --- Back Surface Field solar cells Progress in the development of cadmium sulphide 07 p0123 A75-37402 terrestrial solar batteries Effects of high doping levels on silicon solar 06 p0052 A75-24224 cell performance 07 p0123 A75-37403 Bffect of impurity doping concentration on solar Purther progress in the technology of silk screened CdS solar cells cell output 06 p0052 A75-24225 Development of very low cost solar cells for 07 p0124 A75-37404 Polycrystalline silicon layers for solar cells 08 p0165 A75-38958 terrestrial power generation 06 p0052 A75-24226 An overview of solar energy applications Performance of advanced silicon solar cells in a 08 p0166 A75-39196 space environment 06 p0052 A75-24232 Enhancement of Schottky solar cell efficiency Electron and proton irradiation of high-efficiency above its semiempirical limit silicon solar cells 08 p0171 A75-42166 06 p0053 A75-24233 An Al p-silicon MOS photovoltaic cell 08 p0173 A75-43459 The COMSAT non-reflective silicon solar cell - A second generation improved cell Solar cells for power generation on communication 06 p0053 A75-24245 Solar one - The Delaware solar house and results 08 p0174 A75-44005 obtained during the first year of operation Reliability of low cost Cu2S/CdS solar cells for large scale conversion of solar to electrical 06 p0054 A75-24254 The use of solar cells in the lighthouse service energy 06 p0054 A75-24255 Some aspects of a solar battery system and its use for irrigation in remote sun-rich regions 08 p0174 A75-44754 Outlook for Si photovoltaic devices for terrestrial solar-energy utilization 06 p0054 A75-24256 08 p0181 A75-45509 Solar One, two years experience --- prototype home thermal and electrical system Terrestrial applications of FEP-encapsulated solar cell modules --- power systems using Fluorinated Ethylene Propylene encapsulation 08 p0184 A75-45922 06 p0054 A75-24258 CdS/Cu2S solar cells, their potential and Process development for low cost integrated solar limitations arravs 08 p0188 A75-45961 06 p0054 A75-24259 Design considerations in Schottky solar cells Epitaxial silicon solar cell 08 p0188 A75-45962 Concentrated photovoltaic power generation systems 08 p0188 A75-45963 06 p0056 A75-25086 Solar cell modules for lightweight solar arrays - onboard communication satellites A comparison of the COMSAT violet and 06 p0057 A75-26068 non-reflective cells High-efficiency graded band-gap
Al/x/Ga/1-x/As-GaAs solar cell 08 p0192 A75-46015 Technique for producing 'good' Gals solar cells using poor-quality substrates 06 p0058 A75-27519 08 p0195 A75-46721 Gals concentrator solar cell Investigation The modular solar energy satellite: Investigat on large solar cell surfaces in space for the 06 p0058 A75-27520 Solar cells - Present state and perspectives on terrestrial applications purpose of earth power supply [ILR-17-1974] 06 p0058 A75-27716 05 p0036 N75-14271 Direct solar energy conversion for large scale The future of silicon solar cells for terrestrial terrestrial use [PB-236193/9] 06 p0071 N75-16115 06 p0058 A75-27717 Solar electric and thermal conversion system in Development of low cost thin film polycrystalline silicon solar cells for terrestrial applications close proximity to the consumer --- solar panels 06 p0105 N75-20890 [PB-238505/2] on house roofs [AIAA PAPER 75-628] 06 Performance of a sclar battery using Photovoltaic cell array 06 p0062 A75-28597 [NASA-CASE-MPS-22458-1] 07 p0134 N75-22 Columnar silicon film solar cells for terrestrial 07 p0134 N75-22900 quasi-cylindrical array of plane mirrors as a applications concentrator [PB-238534/2] 07 p0135 N75-22916 07 p0109 A75-29478 Temperature effects in Schottky-barrier silicon Summary of high efficiency silicon solar cell solar cells meeting held at NASA-Lewis [NASA-TH-X-71729] 07 p0115 A75-34175 07 p0138 N75-23681 Peasibility study of a satellite solar power station [NASA-CR-2357] 07 p0138 N75-23683 Temperature dependence of the spectra characteristics of quick-response silicon Photovoltaic solar power systems photocells 07 p0119 A75-36013 07 p0139 875-24098 Efficient CuInSe2/CdS solar cells Space satellite power system conversion of solar energy by photovoltaic solar cell arrays [BASA-CR-142799] 07 p0139 B75-24099 07 p0119 A75-36274 A 15% efficient antireflection-coated metal-oxide-semiconductor solar cell 07 p0119 A75-36275 The high intensity solar cell: Key to low cost photovoltaic power [HASA-TH-X-71718] 07 p0140 B75-The conversion efficiency of ideal Shockley p-n junction photovoltaic converters in concentrated 07 p0140 N75-24108 The effect of sunshine testing on terrestrial solar cell system components [WASA-TH-X-71722] šunlight 07 p0140 N75-24109 07 p0120 A75-36362 V-grooved silicon solar cells [NASA-TH-X-71715] Silicon solar cells for highly concentrated sunlight
07 p0120 175-36363 07 p0141 N75-24119

Pull-scale tests of 'photovolt' high-voltage

07 p0122 A75-37162

photocells at high light flux levels

07 p0143 N75-24136

Terrestrial photovoltaic power systems with

sunlight concentration

[PB-238506/0]

SOLAR COLLECTORS SUBJECT INDEX

Glass-Si heterojunction solar cells On the optimum tilt of a solar collector [PE-239282/7] U/ pVIAS AID Electric energy O7 p0155 N75-26504 07 p0115 A75-33971
Pield performance and operation of a flat-glass solar heat collector Research and development of low cost processes for 07 p0115 A75-33973 Evaluation of central solar tower power plant 07 p0116 A75-34531 Hodeling of solar absorption air conditioning integrated solar arrays [PB-239760/2] 07 p0156 N75-26519 Direct solar energy conversion for large scale terrestial use 07 p0117 A75-34932 08 p0201 N75-28545 Solar characteristics of new absorptive coatings [PB-241007/4] SOLAR COLLECTORS used on solar collectors Heat mirrors for solar-energy collection and 07 p0117 A75-34934 Methodology of research of flat-plate solar collector absorptive coatings radiation insulation 05 p0004 A75-10525 Comparative performance characteristics of cylindrical parabolic and flat plate solar 07 p0117 A75-34935 An ecologic solar heated and cooled home 07 p0118 A75-34937 energy collectors [ASME PAPER 74-WA/ENER-3] 05 p0016 A75-16835 Determination of the surface shapes of film-type solar energy concentrators with seams
07 p0119 A75-36017
Power collection reduction by mirror surface Solar selective surfaces made of semiconducting powders [ASME PAPER 74-WA/HT-13] 05 p0017 A75-16857 Natural convection in enclosed spaces - A review of application to solar energy collection
[ASME PAPER 74-WA/HT-12] 05 p0017 A75-1 nonflatness and tracking error for a central receiver solar power system [ASME PAPER 74-WA/HT-12] 05 p0017 A75-16860 Solar radiation heat transfer to high temperature 07 p0120 A75-36305 Solar energy - The physics of the greenhouse effect 07 p0120 A75-36306 heat carriers [ASME PAPER 74-WA/HT-14] 05 p0017 A75-16861 The analysis of the performance of a pancake absorber-heat exchanger for a solar concentrator Stationary concentrating reflector cum tracking absorber solar energy collector - Optical design [ASME PAPER 74-WA/SOL-1] 05 p0018 A7:
A case study - Utilization of solar energy in residential dwellings
[ASME PAPER 74-WA/SOL-2] 05 p0018 A7: 05 p0018 A75-16884 07 p0120 A75-36307 Pabricating paraboloidal high-temperature solar concentrators from mollified sectors 05 p0018 A75-16885 07 p0122 A75-37166 analytical and experimental investigation of a Semi-transparent solar collector window systems
08 p0167 A75-39405 laboratory solar pond model
[ASME PAPER 74-WA/SOL-3] 05 p0019 A75-16886 Effect of diffusion on concentration profiles in a Performance of the thermal trap solar collector solar pond [ASME PAPER 74-WA/SOL-5] [ASME PAPER 74-WA/SOL-5] 05 p0019 A75-16888 Design of a tubular heat collector for a solar 08 p0167 A75-39412 Laboratory based activities in solar energy at the National Bureau of Standards power installation with a parabolocylindric -concentrator 08 p0168 A75-40299 Evaluation of focusing solar energy collectors

08 p0168 A75-40300
Calculation of the radiant energy field for a
biparaboloidal radiation furnace with a carbon arc

08 p0170 A75-41540
Thermokinetics of a flat solar collector of 05 p0020 A75-17069 Simulation of a solar heating and cooling system - for houses 06 p0048 A75-23018
Some aspects of a solar battery system and its use
for irrigation in remote sun-rich regions 06 p0054 A75-24256 constant heat capacity method for calculating solar radiation for 08 p0171 A75-41768 semicylindrical collectors A tower-top point focus solar energy collector
08 p0174 A75-44753 06 p0057 A75-26718 A technique for calibrating photometric curves Gals concentrator solar cell 06 p0058 A75-27520 obtained in solar concentrator tests 08 p0180 A75-45060
Investigation of a solar concentrator with
hexahedral glass facets Solar collector performance evaluated outdoors at NASA-Lewis Research Center 06 p0058 A75-27531 Status of the NASA-Levis flat-plate collector 08 p0180 A75-45061 A nearly perfect solar energy concentrator made up of tapered mirror facets with constant transverse curvature tests with a solar simulator 06 p0058 A75-27533 Cooling by solar heat --- heating and cooling system for buildings 08 p0180 A75-45062 [AIAA PAPER 75-609] 06 p0062 A75-28590 Optical coatings for collection and conservation of solar energy Solar ponds for space heating --- energy storage by convectionless shallow water 08 p0181 A75-45512 07 p0109 A75-29471 Design and operation of a solar-powered Parametric performance and cost models for solar concentrators turbocompressor air-conditioning and heating 07 p0109 A75-29476 08 p0186 A75-45939 Development of a 540-sq-ft prototype faceted fixed Performance of a solar battery using quasi-cylindrical array of plane mirrors as a mirror solar concentrator concentrator 08 p0186 A75-45940 The EPA-Van - A clean energy system for the home
--- mobile test station for nonpolluting systems
08 p0186 A75-45946
Collector work function improvements and the 07 p0109 A75-29478 Calculation of flat-plate collector loss coefficients --- of solar radiation 07 p0109 A75-29480 Solar-thermal electric power development of low temperature thermionic 07 p0111 A75-31270 converters 08 p0188 A75-45960 Trapezoidal grooves as moderately concentrating. solar energy collectors
[AIAA PAPER 75-738] 07 p0113 A75-328
Sumerical modeling of flat plate solar collectors
[AIAA PAPER 75-739] 07 p0113 A75-328
Outdoor flat-plate collector performance
prediction from solar simulator test data Industrial process heat from solar energy ---07 p0113 A75-32860 energy storage in water pond 08 p0190 A75-45992 07 p0113 A75-32861 Evaluation of solar-assisted Bankine cycle concept for the cooling of buildings 08 p0194 A75-46040 [AIAA PAPER 75-741] 07 p0113 A75-32862 Solar collectors
08 p0195 A75-46045
Solar-thermal electric power generation using a
system of distributed parabolic trough collectors
[AICHE PAPER 12]
08 n0196 Application of heat pipes to solar collectors Glass solar heat collector development
[AIAA PAPER 75-740] 07 p 07 p0115 A75-33758 Optimal solar energy collector system 07 p0115 A75-33970

SUBJECT INDEX SOLAR REFRGY

. Moderately concentrating flat-plate solar energy collectors [ASBE PAPER 75-HT-54] 08 p0196 A75-475
Initial comparisons of solar collector performance
data obtained out-of doors and with a solar 08 p0196 A75-47526 simulator 08 p0197 A75-47804 Solar incidence factor and other geometric considerations of solar energy collection [SAND-74-26] 05 p0034 #75-13390 Axial temperature differential analysis of linear focused collectors for solar power
[SLA-74-5078] 05 p0036 N7:
Design analysis of asymmetric solar receivers 05 p0036 N75-14268 06 p0076 N75-16986 [SAND-74-0124] Collection and concentration of solar energy using Presnel type lenses [NASA-CR-142194] [NASA-CR-142194] 06 p0080 N75-17784
The evaluation of surface geometry modification to improve the directional selectivity of solar energy collectors
[PB-236412/3] 06 p0083 N75
Solar kine: Answer to the agricultural energy challenge of our time 06 p0083 N75-17830 06 p0086 N75-18721 Solar thermal conversion program. Central receiver POCE project, subsystem specifications [PB-238002/0] 06 p0087 N75-18733 Summary of results of solar power arrays for the concentration of energy study [PB-238003/8] 06 p0089 N75-18756 Report and recommendations of the Solar Energy Data Workshop [PB-238066/5] O6 p0089 N75-1 Solar collector thermal power system. Volume 1: 06 p0089 N75-18757 Preliminary technology systems study [AD-A000940] 06 p 06 p0091 N75-19339 Solar collector thermal power system. Volume 2: Development, fabrication, and testing of fifteen foot heat pipes [AD-A000941] 06 p0091 N75-19340 Solar collector thermal power system. lar collector thermal power system. Volume 3: Basic study and experimental evaluation of thermal train components [AD-A000942] 06 p0091 N75-19341 Sizing of focused solar collector fields with specified collector tube inlet temperature -Rankine cycle [SLA-74-5288] 06 p0094 N75-19832 Comparative performance characteristics of cylindrical parabolic focusing and flat plate cylindrical parabolic rocusing and cylindrical parabolic rocusing and collectors [CONF-741104-3] 06 p0103 N75-20872 Solar heating and cooling of buildings study conducted for department of the Army. Volume 1: Executive summary and implementation plans 06 p0104 N75-20879 Solar heating and cooling of buildings study conducted for Department of the Army. Volume 2: Technical report [AD-A002563] 06 p0104 N75-20880 Research on the application of solar energy to the food drying industry [PB-238073/1] 06 p0105 N75-2088 06 p0105 N75-20888 Solar collector performance evaluated outdoors at NASA-Lewis Research Center [NASA-TH-X-71689] 07 p0128 N75-21794 The evaluation of surface geometry modification to improve the directional selectivity of solar energy collectors [PB-238509/4] 07 p0130 N75-21822 Outdoor flat-plate collector performance prediction from solar simulator test data [NASA-TH-I-71707] 07 p0140 test data 07 p0140 N75-24111 Standardized solar simulator tests of flat plate solar collectors. 1: Soltex collector with two transparent covers [NASA-TH-X-71738] 07 p0141 N75-24112 Interim standard for collector standard for collector with two points of the collector with two transparent covers [NASA-TH-X-71738] 07 p0141 N75-24112 Interim standard for solar collectors, first draft
[PB-239757/8] 07 p0150 B75-25313 Solar energy school heating augmentation experiment. Design, construction and construction and initial operation 07 p0150 N75-25314 [PB-239397/3]

Conservation and better utilization of electric power by means of thermal energy storage and solar heating. Solar collector performance studies [PB-239355/1] 07 p0150 N75-25320 Method of testing for rating solar collectors based on thermal performance --- flat plate [PB-239355/1] [COM-75-10276/4] 07 p0150 H75-25321 Development of flat-plate solar collectors for the heating and cooling of buildings [NASA-CR-134804] 07 p0154 N75-26495 Solar heating experiment on the Grover Cleveland School, Boston, Massachusetts [PB-239516/8] [PB-239516/8] 07 p0155 N75-26505 Solar heating and cooling experiment for a school in Atlanta [PB-240611/4] 07 p0155 N75-26510 Solar collector performance studies 07 p0156 N75-26520 [PB-239758/6] Research applied to solar thermal systems
[PB-241089/2] 08 p0200 N75-28543 Solar collector performance evaluation with the NASA-Lewis solar simulator-results for an all-glass-evacuated-tubular selectively-coated collector with a diffuse reflector [NASA-TH-X-71695] 08 p0207 N75-31568 Initial comparisons of solar collector performance data obtained out-of doors and with a solar simulator [NASA-TH-X-71626] 08 p0211 N75-32595 SOLAR BLECTRIC PROPULSION Solar electric propulsion spacecraft power subsystem for an Encke comet rendezvous mission 05 p0002 A75-10481 Interplanetary spacecraft design using solar electric propulsion
[AIAA PAPER 74-1084] 05 p0010 A75-11283 SEPS solar array design and technology evaluation 08 p0192 A75-46016 Natural environment design criteria for the Solar Electric Propulsion Stage (SEPS)

07 p0138 N75-23682 Solar electric propulsion system thermal analysis
--- including heat pipes and multilayer insulation
[NASA-CR-120770] 07 p0147 B75-24842 SOLAR RURRGY Prospects for tapping solar energy on a large scale 05 p0015 175-14014 A case study - Utilization of solar energy in residential dwellings [ASME PAPER 74-WA/SOL-2] 05 p0018 A7 05 p0018 A75-16885 Some generalizations of sample water-supply calculations for solar-powered pumping plants
05 p0020 A75-17077 Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 Technology utilization - Incentives and solar energy 06 p0048 A75-22913 Simulation of a solar heating and cooling system --- for houses 06 p0048 175-23018 Solar operation of ammonia-water multistage air conditioning cycles in the tropics 06 p0048 A75-23021
The Solar Community - Energy for residential heating, cooling, and electrical power 06 p0059 A75-27785 The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The intrinsic instability of the magnetic configuration Hydrogen production from solar energy 07 p0109 A75-29477 06 p0064 A75-29137 A commentary on solar energy 07 p0116 A75-34532 Laboratory based activities in solar energy at the National Bureau of Standards 08 p0168 A75-40299 The Florida Solar Energy Center 08 p0169 A75-40614
Data monitoring and information availability - A
key to solar energy utilization Cooling a light industrial building in Puerto Rico using solar energy
[AIAA PAPER 75-612]

08 p0170 A75-41178

SOLAR BURRGY ABSORBERS SUBJECT INDEX

Effective utilization of solar energy to produce	Oceanic and atmospheric energy sources
clean fuel	07 p0139 #75-24101
[PB-233956/2] 05 p0026 N75-10605 Our prodigal sun solar energy technology	The national solar energy program
[NASA-EP-118] 05 p0032 N75-12885	07 p0139 H75-24102 Solar energy research and development
Otilization of solar energy an assessment of	[GPO-40-684] 07 p0139 H75-24104
present technology	V-grooved silicon solar cells
[NASA-TT-F-16090] 05 p0033 N75-13382	[NASA-TH-X-71715] 07 p0141 H75-24119
Prospects for solar energy utilization	Terrestrial photovoltaic power systems with
[SAND-74-8604] 05 p0034 N75-13389	sunlight concentration
Solar incidence factor and other geometric considerations of solar energy collection	[PB-238506/0] 07 p0143 H75-24136 Proceedings of 5th annual symposium: Energy
[SAND-74-26] 05 p0034 H75-13390	Research and Development solar energy,
Solar energy: Sandia's photovoltaic research	windpower utilization, thermonuclear power
program	generation
[SLA-74-281] 05 p0034 N75-13392	[AD-A007799] 07 p0144 H75-24142
Axial temperature differential analysis of linear	A preliminary technology assessment of ocean
focused collectors for solar power [SLA-74-5078] 05 p0036 H75-14268	thermal gradient energy generation
Photochemical conversion of solar energy	[PB-238646/4] 07 p0144 B75-24147 Symposium on the Material Science Aspects of Thin
[PB-236266/3] 05.p0037 H75-14281	Pilm Systems for Solar Energy Conversion
Photochemical conversion of solar energy study	[PB-239270/2] 07 p0144 H75-24150
of iron-thionine photogalvanic cells	Solar energy for process steam generation
[PB-235474/4] 05 p0038 N75-14282	[PB-238109/3] 07 p0145 H75-24154
Solar sea power	Solar Energy Research, Development, and
[PB-235469/4] 05 p0038 N75-14284 Solar energy	Demonstration Act of 1974
[NASA-TT-F-16092] 05 p0038 N75-15149	[GPO-39-827] 07 p0149 N75-25299 Technical and economic feasibility of the ocean
Research applied to solar-thermal power systems:	thermal differences process as a solar-driven
Chemical vapor deposition research for	energy process
fabrication of sclar energy convertors	[PB-239374/2] 07 p0150 k75-25317
[PB-234565/0] 05 p0041 N75-15186	Solar heating and cooling experiment for a school
Photochemical conversion of solar energy	in Atlanta
[PB-235503/0] 06 p0070 N75-16106 Air-stable selective surfaces for solar energy	[PB-240611/4] 07 p0155 E75-26510 Pluid manifold design for a solar energy storage
collectors	tank
[PB-236196/2] 06 p0071 N75-16116	[NASA-TH-X-64940] 07 p0160 H75-27562
Research on cadmium stannate selective optical	Peasibility study of solar energy utilization in
films for solar energy applications	nodular integrated utility systems
[PB-236208/5] 06 p0071 N75-16117	[BASA-CR-141929] 08 p0199 N75-28518
Solar thermal electric power systems [PB-236368/7] 06 p0071 N75-16118	Integrated solar powered climate conditioning
Chemical vapor deposition research for fabrication	systems [PB-239759/4] 08 p0200 N75-28527
of solar energy convertors	Research applied to solar thermal power systems
[PB-236189/7] 06 p0072 N75-16119	[PB-241090/0] 08 p0201 H75-28544
Terrestrial photovoltaic power systems with	Proceedings of a Workshop on Solar Energy and the
sunlight Concentration	Lav
[PB-236180/6] 06 p0072 H75-16120 Photovoltaic Conversion of solar energy for	[PB-241051/2] 08 p0201 N75-28551
terrestrial applications. Volume 2: Invited	Assessment of a single family residence solar heating system in a suburban development setting
papers	[PB-240784/9] 08 p0203 E75-29552
[PB-236164/0] 06 p0072 H75-16122	Assessment of a single family residence solar
Sensible heat storage in liquids solar energy	heating system in a suburban development setting
applications	[PB-240553/8] 08 p0203 H75-29570
[SLL-73-0263] 06 p0074 B75-16773	Solar heating/cooling of buildings: Current
Solar energy program plan for heating and cooling buildings	<pre>building community projects [PB-241117/1]</pre>
[WASH-1337-5-DRAFT] 06 p0077 N75-16993	Solar Energy Research, Development, and
Solar total energy program	Demonstration Act of 1974
[SAND-74-0208] 06 p0081 N75-17810	[GPO-39-827] 08 p0207 m75-31567
Use of solar energy in buildings in New York state	The NASA-Lewis/ERDA solar heating and cooling
[PB-236974/2] 06 p0083 N75-17825	technology program project planning/energy
Solar thermal subsystem specification study [PB-238005/3] 06 p0083 N75-17829	policy [NASA-TM-X-71800] 08 p0210 N75-32592
Solar energy concentrator system for crystal	SOLAR BBERGY ABSORBERS
growth and zone refining in space	Solar farms utilizing low-pressure closed-cycle
[NASA-CH-120623] 06 p0086 N75-18719	gas turbines
Summary of results of solar power arrays for the	05 p0003 A75-10514
concentration of energy study	Operating experiences with terrestrial solar
[PB-238003/8] 06 p0089 N75-18756 LLL-SOHIO solar process heat project	battery systems in Japan 05 p0005 A75-10531
[UCID-16630-74-1] 06 p0093 H75-19827	Solar thermal absorption heat pump breakeven
Solar energy: A bibliography	coefficient of performance
[TID-3351] 06 p0103 N75-20871	[ASME PAPER 74-WA/EMER-2] 05 p0015 A75-16834
Comparative performance characteristics of	Solar energy storage within the absorption cycle
cylindrical parabolic focusing and flat plate	[ASHE PAPER 74-WA/HT-18] 05 p0017 A75-16864
solar energy collectors [CONF-741104-3] 06 p0103 N75-20872	The analysis of the performance of a pancake absorber-heat exchanger for a solar concentrator
Research on the application of solar energy to the	[ASHE PAPER 74-WA/SOL-1] 05 p0018 A75-16884
food drying industry	Thin film coatings in solar-thermal power systems
[PB-238073/1] 06 p0105 N75-20888	06 p0056 A75-25679
Putting the sun to work: A history and directory	Modeling of the CSU heating/cooling system
of currently available solar energy applications [pB-238189/5] : 07 p0129 N75-21810	Colorado State University solar house computer
[PB-238189/5] 07 p0129 N75-21810 Photovoltaic cell array	simulation 07 p0109 <u>175-29473</u>
[WASA-CASE-MPS-22458-1] 07 p0134 M75-22900	A new concept for solar energy thermal conversion
Electric power for space satellites	07 p0110 a75-30368
[BASA-TH-X-66808] 07 p0137 B75-23678	•

Determination of some thermophysical characteristics of a solar-type pebble accumulator 07 p0116 A75-34317 Solar characteristics of new absorptive coatings used on solar collectors 07 p0117 A75-34934 Methodology of research of flat-plate solar collector absorptive coatings 07 p0117 A75-34935 The University of Florida solar powered intermittent ammonia/water absorption air conditioner 07 p0118 A75-34936 Stationary concentrating reflector cum tracking absorber solar energy collector - Optical design characteristics 07 p0120 A75-36307 Solar absorption air conditioning alternatives 08 p0167 A75-39410 Determination of some thermophysical properties of pebble-type solar heat accumulators 08 p0170 A75-41530 Thermal performance analysis of the stationary reflector/tracking absorber /SRTA/ solar concentrator 08 p0173 A75-43881 [ASME PAPER 75-ET-FFF] Principles and applications of selective solar coatings 08 p0181 A75-45511 Solar-energy materials preparation techniques 08 p0181 A75-45513 Thermal energy storage --- solar storage materials performance 08 p0185 A75-45932 Study on parameter variations for solar powered lithium bromide absorption cooling 08 p0186 A75-45938 Water-splitting system synthesized by photochemical and thermoelectric utilizations of solar energy 08 p0 190 A75-45994 Orbital solar energy technology advances
08 p0192 A75-46018 Indium tin oxide-coated silicon as a selective
 absorber --- for solar radiation 08 p0 195 A75-46951 Solar energy absorber [NASA-CASE-MFS-22743-1] 05 p0024 N75-10585 Solar energy trap [NASA-CASE-MFS-22744-1] 05 p0024 N75-10586 The evaluation of surface geometry modification to improve the directional selectivity of solar energy collectors [PB-236412/3] 06 p0083 N75-17830 Solar thermal conversion program. Central receiver POCE project, subsystem specifications [PB-238002/0] 06 p0087 N75-18733 Solar thermal power systems based on optical transmission [PB-237005/4] 06 p0088 N75-18742 Reflector-absorber systems for solar thermionic converters [ESRO-TT-123] 06 p0104 N75-20878 Terrestrial photovoltaic power systems with sunlight concentration [PB-238582/1] 06 p0105 N75-20886 [PB-236582/1] Us pulls N/5-. Workshop Proceedings on Solar Cooling for buildings, held in conjunction with the Semiannual Meeting of the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) [PB-239419/5] O7 p0144 N/75-2 Solar collector performance studies 07 p0144 N75-24145 Solar collector performance studies
[PB-239758/6]
0 07 p0156 N75-26520 Solar pond [NASA-CASE-NPO-13581-1] 07 p0160 N75-27560 Research applied to solar thermal [PB-241090/0]
SOLAR EMERGY CONVERSION Evaluation of central solar tower power plant 05 p0003 A75-10515 Economics analyses of solar energy utilization 05 p0004 A75-10520

Metal hydrides for thermal energy storage

05 p0004 A75-10522

A prototype solar powered, Rankine Cycle system providing residential air conditioning and electricity 05 p0004 A75-10523 Solar augmented home heating heat pump system 05 p0004 A75-10524 Heat mirrors for solar-energy collection and radiation insulation 05 p0004 A75-10525 Analysis of conversion efficiency of organic-semiconductor solar cells 05 p0010 A75-11146 Study of channel-type systems for solar-energy radiative heat transport 05 p0010 A75-11196
GaP p-n junctions and possibilities for their
application in the conversion of solar energy into electric 05 p0011 A75-12198 Solar energy: Technology and applications --- Book 05 p0012 A75-12425 II-VI photovoltaic heterojunctions for solar energy conversion 05 p0012 A75-12734 Utilization of solar energy today 05 p0012 A75-12987 Solar energy conversion and storage systems for the future 05 p0013 A75-12988 Solar cells - Operation, development and applications 05 p0015 A75-15201 Transparent heat-mirror films of TiO2/Ag/TiO2 for solar energy collection and radiation insulation 05 p0015 A75-16378 Methods for low cost manufacture of silicon solar arrays [ASME PAPER 74-WA/ENER-4] 05 p0016 A75-16836 Natural convection in enclosed spaces - A review of application to solar energy collection [ASME PAPER 74-WA/HT-12] 05 p0017 A75-16860 Sizing of solar energy storage systems using local weather records
[ASME PAPER 74-WA/HT-20] 05 p0017 A75Dynamic response of solar heat storage systems
[ASME PAPER 74-WA/HT-22] 05 p0018 A75Performance of the thermal trap solar collector
[ASME PAPER 74-WA/SOL-5] 05 p0019 A75-05 p0017 A75-16865 05 p0018 A75-16867 05 p0019 A75-16888 [ASHE PAPER 74-WA/SOL-5] 05 pools A: Selection and evaluation of the University of Florida's solar powered absorption air conditioning system [ASHE PAPER 74-WA/SOL-6] 05 p0019 A7: Assessment of Rankine cycle for potential 05 p0019 A75-16889 application to solar-powered cooling of buildings [ASME PAPER 74-WA/SOL-7] 05 p0019 A75-1689
Dynamic simulation for performance analysis of 05 p0019 A75-16890 Dynamic simulation for performance analysis solar heated and cooled buildings
[ASME PAPER 74-WA/SOL-8] 05 p0019 A75-16891
Energy problems - Solar energy and manure gas
05 p0020 A75-17024 Concepts for central solar electric power generation 05 p0021 A75-17504 Compact solar energy concentrator 05 p0021 A75-19050 Material considerations involved in solar energy conversion 06 p0047 A75-22522 Thermodynamic analysis of a solar energy system with a closed-cycle gas-turbine converter 06 p0049 A75-23402 A study of channel systems for radiative solar-heat transfer 06 p0049 A75-23408 Considerations regarding a utilization of solar energy --- thermal, electric and wind energy systems 06 p0050 A75-23510 The introduction of the principles of biological energy supply in future technical systems 06 p0050 A75-23511 Photovoltaic power generation: Proceedings of the International Conference, Hamburg, West Germany, September 25-27, 1974 Report on photovoltaics research and technology in the United States

06 p0051 A75-24214

Historic development of photovoltaic power Solar energy and architecture 07 p0112 A75-31698 generation 06 p0051 A75-24215 Minimum cost solar thermal electric power systems Solar one - The Delaware solar house and results A dynamic programming based approach obtained during the first year of operation 06 p0054 A75-24254 07 p0112 A75-32097 Analysis of gas dissociation solar thermal power Effect of attitude constraints on solar-electric system geocentric transfers 07 p0115 A75-33974 [AIAA PAPER 75-350] 06 p0055 A79 Use of flexible reflective surfaces for solar Complex utilization of a solar power plant 07 p0116 &75-34320 06 p0055 A75-24957 Evaluation of central solar tower power plant 07 p0116 A75-34531 energy concentration 06 p0056 A75-25678 Dynamic method for calculating the series Solar air conditioning systems using Rankine power resistance of a semiconductor photoelectric cycles - Design and test results of prototype converter three ton unit 06 p0057 A75-26713 07 p0117 A75-34931 Roles for solar thermal conversion systems in our Heating buildings with solar energy 07 p0117 A75-34933 energy economy The University of Plorida solar powered intermittent ammonia/water absorption air 06 p0059 A75-27784 Solar/hydroelectric combined power systems 06 p0059 A75-27786 conditioner Ocean thermal power and windpower systems -07 p0118 A75-34936 Natural solar energy conversion for near-term The satellite solar power station option --- for impact on world energy markets solar energy transmission to earth 06 p0060 A75-27790 07 p0118 A75-35465 Prospects of photosynthetic energy production 06 p0060 A75-27792 SIMSHAC - A simulation program for solar heating Solar energy - The physics of the greenhouse effect 07 p0120 A75-36306 The conversion efficiency of ideal Shockley p-n and cooling of buildings junction photovoltaic converters in concentrated 06 p0061 A75-28093 sunlight Solar energy in earth processes --- review 07 p0120 A75-36362 06 p0061 A75-28437 Controlling the response of thermoelements that Solar energy and energy conservation in a state-assisted housing for the elderly project [AIAA PAPER 75-611] 06 p0062 A75-28591 generate electricity 07 p0121 A75-37154 Generation of electric power at high reliability Systems aspects of ocean thermal energy conversion levels using a group of solar power plants in an [AIAA PAPER 75-615] 06 p0062 A75-28593 energy system Site limitations on Solar Sea Power Plants
[AIAA PAPER 75-618] 06 p0062 07 p0122 A75-37159 Principles of a composite study involving combined 06 p0062 A75-28594 100 NWe solar power plant design configuration and use of solar and wind energy performance 07 p0122 A75-37160 [AIAA PAPER 75-623] Generalizations of composite studies involving combined use of wind and solar energy [AIAA PAPER 75-623] 06 p0062 A75-28595 A central receiver solar power plant in a hybrid mode of operation --- solar/fossil-fueled steam 07 p0122 A75-37161 power plant
[AIAA PAPER 75-624] Dynamic calculation of semiconductor 06 p0062 A75-28596 photoconverter series resistance The oceanic biomass energy plantation --- seaweed harvesting for food and fuel 07 p0122 A75-37164 Summary of NASA-Lewis Research Center solar [AIAA PAPER 75-635] heating and cooling and wind energy programs 07 p0123 A75-37240 Optical interfaces in solar energy utilization 06 p0063 A75-28599 The satellite solar power station - An option for energy production on earth
[AIAA PAPER 75-637] 06 p0063 A75-280
Overcoming two significant hurdles to space power 07 p0123 A75-37331 06 p0063 A75-28600 Energy and Resources - A plan is outlined according to which solar and wind energy would generation Transportation and assembly [AIAA PAPER 75-641] 06 p00 06 p0063 A75-28601 supply Denmark's needs by the year 2050 Tropical ocean thermal power plants and potential solar and wind power utilization for Denmark products 07 p124 A75-37846 Satellites for energy transmission to earth -[AIAA PAPER 75-617] 06 p0064 A75-29116 Technical and socioeconomic studies Solar thermal conversion mission analysis 06 p0064 A75-29117 [AIAA PAPER 75-619] 07 p0125 A75-38644 Design and construction of a residential solar The potential of natural energy sources 08 p0165 A75-38865 heating and cooling system 07 p0109 A75-29472 Thick semiconductor films for photothermal solar A method of simulation of solar processes and its energy conversion application --- energy collection processes 07 p0109 A75-29474 08 p0165 A75-38956 An overview of solar energy applications Parametric performance and cost models for solar 08 p0166 A75-39196 Year round performance studies on a built-in 07 p0109 A75-29476 storage type solar water heater at Jodhpur, India 08 p0167 A75-39406 A new concept for solar energy thermal conversion 07 p0110 A75-30368 Solar energy for earth: An AIAA assessment --- Book Effect of diffusion on concentration profiles in a solar pond 07 p0110 A75-31267 08 p0167 A75-39412 Solar climate control - Evaluating the commercial Solar-thermal electric power 07 p0111 A75-31270 possibilities Photovoltaic power --- solar energy for terrestrial applications 08 p0168 A75-40297 Solar energy powered systems - History and current 07 p0111 A75-31271 status Puel production /biomass energy/ --- by fuel 08 p0168 A75-40298 Statistical relation between heat transfer from a plantation development closed area and meteorological parameters during 07 p0111 A75-31275 the use of a solar refrigerating plant
08 p0169 A75-41072
Comprehensive utilization of a solar installation Energy, environment and building -- Book 07 p0111 A75-31448 Pilot solar air-conditioning plant and results of 08 p0170 A75-41533 its use Solar production of electrical energy 07 p0112 A75-31588 07 p0111 A75-31512 Sunlight to electricity: Prospects for solar energy conversion by photovoltaics --- Book 08 p0170 A75-41608

SUBJECT INDEX

Solar tower thermo-chemical energy cycles
08 p0171 175-42277 Photoproduction of hydrogen via microbial and biochemical processes 08 p0171 A75-42279 Solar energy conversion by water photodissociation 08 p0173 A75-43510 Is massive solar energy conversion a practical prospect 08 p0174 A75-44752 A tower-top point focus solar energy collector 08 p0174 A75-44753 Reliability of low cost Cu2S/CdS solar cells for large scale conversion of solar to electrical 08 p0174 A75-44754 Ocean based solar-to-hydrogen energy conversion macro system 08 p0175 A75-44764 Photolysis of water as a solar energy conversion process - An assessment 08 p0176 A75-44766 The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms 08 p0176 A75-44770 A nearly perfect solar energy concentrator made up of tapered mirror facets with constant transverse curvature 08 p0180 A75-45062 Solar energy - An overview 08 p0181 A75-45508 Outlook for Si photovoltaic devices for terrestrial solar-energy utilization 08 p0181 A75-45509 Optical coatings for collection and conservation of solar energy 08 p0181 A75-45512 Solar-energy materials preparation techniques 08 p0181 A75-45513 Solar-energy conversion at high solar intensities 08 p0181 A75-45514 Space and energy - Some legal problems extraterrestrial resources and solar energy exploitation 08 p0183 A75-45885 Solar One, two years experience --- prototype home thermal and electrical system O8 p0184 A75-45922
Optimum properties of working fluids for solar powered heat pumps 08 p0185 A75-45937 A computer program to determine the optimum configuration of solar assisted building heating and cooling systems based upon life-cycle cost 08 p0186 A75-45941 Concentrated photovoltaic power generation systems 08 p0188 A75-45963 The selection and use of energy storage for solar thermal electric application 08 p0189 A75-45980 The design of a solar cavity steam generator for electrical power generation 08 p0190 A75-45982 Ground based solar energy technology advances
08 p0 190 A75-45984 Continuous duty solar energy system concepts 08 p0190 A75-45993 A 100 watt Stirling electric generator for solar or solid fuel heat sources 08 p0192 A75-46014 Solar-thermal electric power generation using a system of distributed parabolic trough collectors [AICHE PAPER 12] 08 p0196 A75-4751 08 p0196 A75-47511 The BASA-Lewis/BRDA Solar Heating and Cooling Technology Program 08 p0197 A75-47803 Development of solar engineering in the USSR [AD-784708] 05 p0025 #75-10597 Solar Sea Power Plants (SSPP): A critical review and survey [NASA-TH-X-70783] 05 p0028 875-11459 Bioconversion --- of solar energy and solid waste energy into useable fuels [GPO-37-403] 05 p0028 N75-11463 Shallow solar pond energy conversion system: An analysis of a conceptual 10-HWe plant [UCRL-51533-REV-1] 05 p0028 H75-11467

Solar photovoltaic energy [GPO-39-576] 05 p0032 #75-13379 A system utilizing solar energy [WASA-TT-F-16089] 05 p0033 W75-13386 Japanese/United States Symposium on Solar Energy Systems. Volume 1: Summary of proceedings [MTR-6284-VOL-1] 05 p0036 875-14264 Wind and solar power engineering [AD-786844] 05 p0039 N75-15168 Solar heating and cooling of buildings, phase O. Volume 2: Pinal report
[PB-235423/1] 05 p0042 #75-1 05 p0042 #75-15190 PB-235423/1]
Solar heating and cooling of buildings, phase O:
Peasibility and planning study. Volume 3, book
1, appendix A, task 1: Development of
requirements. Appendix B, task 2: Systems definition [PB-235433/0] 05 p0042 N75-15191 Solar heating and cooling of buildings. Phase 0: Pinal report, volume 1 [PB-235427/2] 05 p0042 875-15192 Solar heating and cooling of buildings. Phase 0: Final report. Volume 2: Appendices A-W [PB-235428/0] 05 p0042 N75-15193 Solar heating and cooling of buildings. Phase 0: Pinal report. Volume 3: Appendices O-Y [PB-235429/8] 05 p0042 875-15194 Dynamic conversion of solar generated heat to electricity
[NASA-CR-134724]

Test report SEPS solar array root section model [NASA-CR-120606] 06 p0067 N75-16085 Proceedings of the Solar Heating and Cooling for Buildings Workshop. Part 2: Panel sessions, March 23 [PB-235483/5] 06 p0069 N75-16095 Proceedings of the Workshop on Bio-Solar Conversion [PB-236142/6] 06 p0069 N75-16096 Workshop proceedings: Photovoltaic conversion of solar energy for terrestrial applications. Volume 1: Working group and panel reports [NASA-CR-138209] 06 p0069 N75-16097 Workshop proceedings: Photovoltaic conversion of solar energy for terrestrial applications. Volume 2: Invited papers Volume 2: Invited papers
[NASA-CR-138193] 06 p0069 N75-10
Solar heating and cooling of buildings. Phase 0: 06 p0069 N75-16098 Feasibility and planning study. Volume 1:
[PB-235431/4] 06 p0069 N75-16101 Teachical report

To prove the first transfer of buildings. Phase 0:

Feasibility and planning study. Volume 2:

Technical report 06 p0069 N75-16102 [PB-235432/2] Solar heating and cooling of buildings, phase O. Volume 3: Appendices [PB-235424/9] 06 p0070 N75-16103 Solar heating and cooling of buildings, phase O. Volume 1: Executive summary [PB-235422/3] 06 p0070 N75-16107 Solar Power Array for the Concentration of Energy, (SPACE) [PB-236247/3] 06 p0071 NT5-16114 Direct solar energy conversion for large scale terrestrial use [PB-236193/9] 06 p0071 N75-16115 Photovoltaic conversion of solar energy for Terrestrial Applications. Volume 1: Working group and panel reports
[PB-236163/2]
Integration of photovoltaic and solar thermal
energy conversion systems
[SAND-74-0093]
06 p0076 N75 06 p0072 N75-16121 06 p0076 N75-16992 Control system design and simulation for solar heated structures
[LA-UR-74-1085] 06 p0082 H75-17813
Thermodynamic analysis and parameter optimization of a solar thermoelectric power unit with radiation heat dissipation [AD-A000211] 06 p0082 N75 Solar kine: Answer to the agricultural energy 06 p0082 N75-17819 challenge of our time 06 p0086 N75-18721 Sizing of focused solar collector fields with specified collector tube inlet temperature Rankine cycle [SLA-74-5288] 06 p0094 #75-19832 Reflector-absorber systems for solar thermionic converters

[ESRO-TT-123]

06 p0104 N75-20878

Study of energy distribution in the field of concentration of a solar power plant with a Technology for the conversion of solar energy to fuel gas [PB-238103/6] 06 p0104 N75-20883 hyperboloid counterreflector Environmental aspects of cadmium sulfide usage in 05 p0010 A75-11195 solar energy conversion. Part 1: Toxicological and environmental health considerations, a Analysis of different systems concerning the energy distribution on board a satellite
[IAF PAPER 74-084] 05 p0014 A75-13716 bibliography [PB-238285/1] 06 p0105 N75-20884 Utilization of tubular thermoelectric modules in Solar power system and component research program [PB-238642/3] 07 p0135 B75-22915 Columnar silicon film solar cells for terrestrial solar generators 05 p0020 A75-17067 Design of a tubular heat collector for a solar power installation with a parabolocylindric applications concentrator [PB-238534/2] 07 p0135 N75-22916 Technology: for the conversion of solar energy to 05 p0020 A75-17069 Prospects for using dynamic thermocompression fuel gas [PB-238545/8] 07 p0136 N75-22919 converter in solar power plants Solar power system and component research program [PB-239185/2] 07 p0136 N75-22930 05 p0020 A75-17076 Concepts for central solar electric power generation 05 p0021 A75-17504 Photovoltaic solar power systems 07 p0139 N75-24098 Thermodynamic analysis of a solar energy system Space satellite power system conversion of with a closed-cycle gas-turbine converter 06 p0049 175-23402
Energy distribution in the concentration field of
a solar installation with a hyperboloidal solar energy by photovoltaic solar cell arrays 07 p0139 N75-24099 Solar photothermal power conversion 07 p0139 N75-24100 counter-reflector The national solar energy program 06 p0049 A75-23407 07 p0139 N75-24102 Investigations and selection of components and materials for flexible solar generator The energy plantation 06 p0050 A75-24182 Solar generators for terrestrial applications 07 p0139 N75-24103 PB-238947/61

O, point M/5-24103

O, point M/5-24103

O, point M/5-24103

Or point M/5-24103 06 p0054 A75-24257
Testing of a photoelectric generator in a mountainous region of the Azerbaidzhan SSR 06 p0057 A75-26714 Symposium on the Material Science Aspects of Thin Film Systems for Solar Energy Conversion Derivation of a total satellite energy system ---solar power station for terrestrial consumption [AIAA PAPER 75-640] 06 p0064 A75-29 [PB-239270/2] 07 p0144 N75-24150 06 p0064 A75-29118 Dependence of the basic parameters of Al/x/Ga/1-x/As-GaAs solar converters on Proceedings of the Solar Thermal Conversion Workshop [PB-239277/7] 07 p0145 N75-24157 Beat exchangers for sea solar power plants [PB-239369/2] 07 p0150 N75-25319 Al/x/Ga/1-x/As-GaAs SULGAL temperature and optical intensity
07 p0112 A75-32824 Solar heating experiment on the Grover Cleveland School, Boston, Bassachusetts [PB-239516/8] 07 p0155 H75-20 Investigation of the electrical and temperature characteristics of a silicon photoelectric converter under natural conditions 07 p0155 N75-26505 07 p0116 A75-34314 Design and test report for transportable solar laboratory program [PB-240609/8] Determining potential solar power sites in western hemisphere ocean and land areas based upon 07 p0156 N75-26512 Direct solar energy conversion for large scale terrestial use satellite observations of cloud cover 07 p0118 A75-35461 [PB-241007/4] 08 p0201 N75-28545 Investigation of photoelectric converter operation Solar energy power system [NASA-CASE-MFS-21628-2] under conditions of strong illumination 07 p0119 A75-36015 08 p0202 N75-29548 Solar energy projects of the Federal Government [PB-241620/4] 08 p0208 N75-Photoelectric generator testing in the 08 p0208 N75-31582 Azerbaidzhan SSR mountains Full-scale testing of high-voltage photocells of fotovolt type at elevated light flux levels 07 p0122 A75-37165 Cooling with the sun's heat - Design considerations and test data for a Rankine Cycle 08 p0210 N75-32590 Solar Heating and Cooling Demonstration Act of prototype 08 p0167 175-39409
Operation of photoconverters under conditions of strong illumination 1974: Oversight hearings [GPO-55-414] 08 p0212 N75-33495 Hot water hydraulics of the Gulf Stream sited OTGM 08 p0213 N75-33502 [PB-242151/9] 08 p0170 A75-41538 An evaluation of oceanographic and socioeconomic Effectiveness of using chemically reacting working aspects of a nearshore ocean thermal energy conversion pilot plant in subtropical Hawaiian media in a solar gas-turbine installation 08 p0180 A75-45063 Estimates of the reliability of energy-supply [PB-242167/5] 08 p0213 N75-33509 systems employing solar energy SOLAR PLUX DEBSITY 08 p0181 A75-45064 Solar residential electrification with high Experience in setting up solar-energy survey for performance heat engines
[AIAA PAPER 75-1239] Azerbaidzhan 05 p0020 A75-17081 08 p0182 A75-45651 Investigation of photoelectric converter operation Deployable Symphonie solar generator [IAP PAPER 75-009] 08 under conditions of strong illumination 08 p0183 A75-45819 07 p0119 A75-36015 Storage of energy in kinetic batteries for an The high intensity solar cell - Key to low cost photovoltaic power earth resources satellite [IMP PAPER ST-75-09] 08 p0183 175-45875 07 p0123 A75-37400 Data monitoring and information availability - A The selection and use of energy storage for solar thermal electric application key to solar energy utilization 08 p0189 A75-45980 08 p0169 A75-40618 Solar-heated-air turbine generating systems 08 p0190 A75-45981 Operation of photoconverters under conditions of strong illumination The design of a solar cavity steam generator for 708 p0170 A75-41538 electrical power generation Solar-energy conversion at high solar intensities 08 p0190 A75-45982 08 p0181 A75-45514 Continuous duty solar energy system concepts 08 p0190 A75-45993 SOLAR GREERATORS Hot side heat exchanger for an ocean thermal Power processor design considerations for a solar electric propulsion spacecraft [NASA-CR-140842] difference power plant 05 p0004 A75-10527 05 p0029 #75-12064

Solar power system and component research program	Design and construction of a residential solar
[PB-236159/0] 05 p0037 N75-14280 Solar thermal electric power systems	heating and cooling system 07 p0109 A75-29472
[PB-235475/1] 05 p0038 N75-14283 Chemical wapor deposition research for fabrication	A method of simulation of solar processes and its application energy collection processes
of solar energy convertors	07 p0109 A75-29474
[PB-235481/9] 05 p0041 N75-15185 Research applied to solar-thermal power systems:	Solar energy for earth: An AIAA assessment Book 07 p0110 A75-31267
Chemical vapor deposition research for fabrication of solar energy convertors	Solar heating and cooling 07 p0111 175-31269
[PB-234565/0] 05 p0041 H75-15186	Solar-thermal electric power
Solar thermal electric power systems [PB-236368/7] 06 p0071 H75-16118	07 p0111 A75-31270 Theoretical determination of the temperature in a
Terrestrial photovoltaic power systems with	solar water heater /steady state/ 07 p0112 A75-31513
sunlight concentration [PB-236180/6] 06 p0072 N75-16120	Theoretical research on the operation of a solar
. Technical and economic feasibility of the ocean thermal differences process as a solar-driven	water heater and comparison with experimental data 07 p0112 175-31515
energy process	Solar energy and architecture 07 p0112 A75-31698
[PB-236422/2] 06 p0077 N75-17003 Solar sea power axial flow pumps	Design charts for hot liquid energy storage
[PB-236997/3] 06 p0082 M75-17821 Solar thermal power systems based on optical	systems utilizing forced circulation [AIAA PAPER 75-742] 07 p0113 A75-32851
transmission	Solar stills for agricultural purposes 07 p0115 A75-33972
[PB-237005/4] 06 p0088 N75-18742 Assessment of the Rankine cycle for potential	Underground storage of heat in solar heating systems
application to solar powered cooling of buildings [PB-238069/9] 06 p0089 N75-18755	07 p0115 A75-33975 Solar heating and cooling of buildings using heat
Summary of results of solar power arrays for the	pumps /Brief survey/
Concentration of energy study [PB-238003/8] 06 p0089 N75-18756	07 p0116 &75-34321 Heating buildings with solar energy
Terrestrial photovoltaic power systems with sunlight concentration	07 p0117 A75-34933 An ecologic solar heated and cooled home
[PB-238582/1] 06 p0105 N75-20886 Photovoltaic cell array	07 p0118 A75-34937 Study of the influence of container design and the
[NASA-CASE-MFS-22458-1] 07 p0134 N75-22900	thermal inertness of solar water heaters on
Solar power system and component research program [PB-238642/3] 07 p0135 N75-22915	their efficiency 07 p0119 A75-36018
Pormulation of a data base for the analysis, evaluation and selection of a low temperature	Energy distribution in the concentration field of a two-mirror device with a paraboloidal back
solar powered air conditioning system [PB-238683/7] 07 p0136 B75-22928	reflector 07 p0122 175-37157
Solar power system and component research program	Use of solar heat pumps for heating and air
[PB-239105/2] 07 p0136 N75-22930 Chemical wapor deposition research for fabrication	conditioning - A brief survey 08 p0 170 A75-41534
of solar energy converters [PB-238947/6] 07 p0143 H75-24137	Investigation of the effect of boiler design and finite thermal response of solar water heaters
Proceedings of the Solar Thermal Conversion Workshop [PB-239277/7] 07 p0145 N75-24157	on efficiency 08 p0170 175-41541
Solar generator and power systems for	Thermochemical water cracking using solar heat 08 p0175 A75-44765
Communication satellites 08 p0206 H75-31165	Solar-energy conversion at high solar intensities
SOLAR HEATING Solar augmented home heating heat pump system	08 p0181 A75-45514 Technical and economic evaluation of solar heating
05 p0004 A75-10524 Thermal energy storage devices suitable for solar	and cooling of huildings 08 p0184 A75-45921
heating	Operational experience - Solar heating a Boston school
05 p0007 A75-10553 Utilization of solar energy today	08 p0184 A75-45923
05 p0012 A75-12987 Solar thermal absorption heat pump breakeven	A large mechanical contracting corporation solar heats its own offices
Coefficient of performance [ASHE PAPER 74-WA/EMER-2] 05 p0015 A75-16834	08 p0184 A75-45924 The nation's first private industrial solar
Sizing of solar energy storage systems using local	heating system ~ General Blectric's Valley Forge
<pre>Weather records [ASME PAPER 74-WA/HT-20]</pre>	Space Center 08 p0184 A75-45925
Convergence and speed of calculations for thermoelectric heat pump	Solar heating and cooling of Army buildings 08 p0184 A75-45926
05 p0020 175-17084 Solar collector performance evaluated outdoors at	An integrated solar heated and cooled nobile home 08 p0184 A75-45927
MASA-Lewis Research Center	Solar heat pump comfort heating systems
06 p0058 A75-27531 Solar heating and cooling of buildings	08 p0185 A75-45936 Design and operation of a solar-powered
06 p0059 A75-27783 SINSHAC - A simulation program for solar heating	turbocompressor air-conditioning and heating system
and cooling of buildings 06 p0061 175-28093	08 p0186 A75-45939 Development of a 540-sq-ft prototype faceted fixed
Solar energy and energy conservation in a	mirror solar concentrator
state-assisted housing for the elderly project [AIAA PAPER 75-611] 06 p0062 A75-28591	08 p0186 A75-45940 A computer program to determine the optimum
Solar electric and thermal conversion system in close proximity to the consumer solar panels	configuration of solar assisted building heating and cooling systems based upon life-cycle cost
on house roofs [AIAA PAPER 75-628] 06 p0062 175-28597	08 p0186 A75-45941 Solar-heated-air turbine generating systems
Solar ponds for space heating energy storage	08 p0190 A75-45981
by convectionless shallow water 07 p0109 175-29471	Industrial process heat from solar energy energy storage in water pond
•	08 p0190 A75-45992
· · · · · · · · · · · · · · · · · · ·	•

New dimensions in water heating in the Northwest -	Summary of NASA Lewis Research Center solar
A study of solar energy utilization computer	heating and cooling and wind energy programs
model	[NASA-TH-X-71745] 07 p0154 H75-26497
08 p0191 A75-45995	Research on solar cell arrays and electric energy
Wind and solar thermal combinations for space heating	[PB-239338/7] 07 p0155 H75-26504
08 p0192 175-46010	Solar heating experiment on the Grover Cleveland School, Boston, Massachusetts
The NASA-Lewis/ERDA Solar Heating and Cooling	[PB-239516/8] 07 p0155 #75-26505
Technology Program	Solar heating and cooling experiment for a school
08 p0197 a75-47803	in Atlanta
Research, development, and the energy crisis	[PB-240611/4] 07 p0155 #75-26510
[GPO-27-032] 05 p0023 H75-10580	Investment possibility of financial institutions
-Solar heating and cooling of buildings. Phase 0:	in solar heating
Final report. Executive summary	[PB-239756/0] 07 p0155 #75-26511
[PB-235426/4] 05 p0042 p75-15195 Dynamic conversion of solar generated heat to	Design and test report for transportable solar
electricity	laboratory program [PB-240609/8] 07 p0156 B75-26512
[NASA-CR-134724] 06 p0066 N75-16079	Conservation and better utilization of electric
Solar heating and cooling of buildings. Phase 0:	power by means of thermal energy storage and
Peasibility and planning study. Volume 1:	solar heating
[PB-235431/4] 06 p0069 875-16101	[PB-239395/7] 07 p0157 p75-26521
Solar heating and cooling of buildings. Phase 0:	Conservation and better utilization of electric
Peasibility and planning study. Volume 2:	power by means of thermal energy storage and
Technical report [PB-235432/2] 06 p0069 N75-16102	solar heating, executive summary [PB-239394/0] 07 p0157 #75-26522
Solar heating and cooling of buildings, phase 0.	Integrated solar powered climate conditioning
Volume 3: Appendices	systems
[PB-235424/9] 06 p0070 N75-16103	[PB-239759/4] 08 p0200 N75-28527
Solar heating and cooling of buildings, phase 0.	Assessment of a single family residence solar
Volume 1: Executive summary	heating system in a suburban development setting
[PB-235422/3] 06 p0070 N75-16107	[PB-240784/9] 08 p0203 H75-29552
Solar heating and cooling of buildings. Phase 0. Peasibility and planning study. Volume 3, book	Assessment of a single family residence solar heating system in a suburban development setting
2, appendix c, task 3: Assessment of capture	[PB-240553/8] 08 p0203 B75-29570
potential. Appendix d, task 4: Social and	Solar heating/cooling of buildings: Current
environmental study	building community projects
[PB-235434/8] 06 p0070 H75-16108	[PB-241117/1] 08 p0205 R75-30668
Latent heat and sensible heat storage for solar	The NASA-Lewis/ERDA solar heating and cooling
heating systems	technology program project planning/energy
[PB-236190/5] 06 p0077 N75-17005 Comparison of computer programs used for modeling	policy [HASA-TM-X-71800] 08 p0210 N75-32592
solar heating and air conditioning systems for	Initial comparisons of solar collector performance
buildings	data obtained out-of doors and with a solar
[LBL-3066] 06 p0079 N75-17279	simulator
Design and construction of a residential solar	[NASA-TH-X-71626] 08 p0211 N75-32595
heating and cooling system [PB-237042/7] 06 p0082 N75-17823	Solar Heating and Cooling Demonstration Act of 1974: Oversight hearings
Use of solar energy in buildings in New York state	[GPO-55-414] 08 p0212 N75-33495
[PB-236974/2] 06 p0083 N75-17825	Seminar on Industrial Energy Conservation and
Solar thermal conversion program. Central	Seminar on Solar Space Heating and Cooling
receiver POCE project, subsystem specifications	[PB-241462/1] 08 p0212 N75-33498
studies	SOLAR MAGNETIC FIELD
[PB-238002/0] 06 p0087 N75-18733 LLL-SOHIO solar process heat project	The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The
[UCID-16630-74-1] 06 p0093 N75-19827	intrinsic instability of the magnetic
Solar heating and cooling of buildings study	configuration
conducted for department of the Army. Volume 1:	06 p0064 A75-29137
Executive summary and implementation plans	SOLAR PHYSICS
[AD-A002576] 06 p0104 N75-20879	The Mitre solar energy demonstration system
Solar heating and cooling of buildings study	06 p0055 A75-24676
conducted for Department of the Army. Volume 2: Technical report	SOLAR PROPULSION Power processor design considerations for a solar
[AD-A002563] 06 p0104 N75-20880	electric propulsion spacecraft
Peasibility demonstration of a solar powered	[NASA-CR-140842] 05 p0029 H75-12064
turbocompressor air conditioning and heating	SOLAR RADIATION
system	Solar radiation heat transfer to high temperature
[PB-238570/6] 07 p0130 N75-21816	heat carriers
Solar residential heating and cooling system	[ASME PAPER 74-WA/HT-14] 05 p0017 A75-16861
development test program [HASA-TM-X-64924] 07 p0135 H75-22903	The effect of sunshine testing on terrestrial
Modeling of solar heating and air conditioning	solar cell system components 07 p0123 A75-37396
[PB-239189/4] 07 p0136 N75-22926	Solar energy and solar powered equipment
The development of a solar residential heating and	[NASA-TT-P-16155] 06 p0081 N75-17787
cooling system	Report and recommendations of the Solar Energy
[NASA-CR-142728] 07 p0140 N75-24107	Data Workshop
Interim standard for solar collectors, first draft	[PB-238066/5] 06 p0089 N75-18757
[PB-239757/8] 07 p0150 F75-25313 Solar energy school heating augmentation	SOLAR REFLECTORS Study of energy distribution in the field of
experiment. Design, construction and	concentration of a solar power plant with a
construction and initial operation	hyperboloid counterreflector
[PB-239397/3] 07 p0150 H75-25314	05 p0010 A75-11195
Conservation and better utilization of electric	Compact solar energy concentrator
power by means of thermal energy storage and	05 p0021 A75-19050
solar heating. Solar collector performance studies	Material considerations involved in solar energy conversion
[PB-239355/1] 07 p0150 H75-25320	06 p0047 A75-22522
Development of flat-plate solar collectors for the	
heating and cooling of buildings	·
[NASA-CR-134804] 07 p0154 H75-26495	

SUBJECT INDEX SPACECRAPT DESIGN

Bnergy distribution in the concentration field of a solar installation with a hyperboloidal	SOUTHERN CALIFORNIA Outer continental shelf oil and gas leasing off
Counter-reflector 06 p0049 A75-23407	southern California: Analysis of issues [GPO-41-659] 08 p0209 N75-31958
Performance of a solar battery using quasi-cylindrical array of plane mirrors as a	SPACE ENVIRONMENT SIMULATION Performance of advanced silicon solar cells in a
concentrator 07 p0109 A75-29478 Method of calibrating a solar power plant with a	space environment 06 p0052 A75-24232 Blectron and proton irradiation of high-efficiency
paraboloidal mirror 07 p0116 A75-34315	silicon solar cells 06 p0053 A75-24233
Bnergy distribution in the concentration field of a two-mirror device with a paraboloidal back reflector	SPACE LAW Space and energy - Some legal problems 7 extraterrestrial resources and solar energy
07 p0122 A75-37157 Semi-transparent solar collector window systems 08 p0167 A75-39405	exploitation 08 p0183 A75-45885 SPACE HARDPACTURING
Thermal performance analysis of the stationary reflector/tracking absorber /SRTA/ solar	Solar energy concentrator system for crystal growth and zone refining in space
Concentrator [ASME PAPER 75-HT-FFF] 08 p0173 A75-43881	[NASA-CR-120623] 06 p0086 N75-18719 SPACE MISSIONS
Reflector-absorber systems for solar thermionic converters	Natural environment design criteria for the Solar Blectric Propulsion Stage (SBPS)
[ESRO-TT-123] 06 p0104 N75-20878 Low cost solar energy collection system	[HASA-TH-X-64929] 07 p0138 H75-23682 SPACE POWER REACTORS
[NASA-CASE-HPO-13579-1] 08 p0199 N75-28519 SOLAR SEA POWER PLAWTS Solar sea power plants /SSPP/ using ocean	Comparison and evaluation of nuclear power plant options for geosynchronous power stations 08 p0193 A75-46027
thermal gradients 08 p0191 A75-45996	Ronomic radioisotope thermoelectric generator program: Program plan
SOLAR SIMULATION Modeling of solar absorption air conditioning	[IESD-3112-3] 05 p0034 H75-13393 SPACE PROGRAMS
07 p0117 A75-34932 SOLAR SINULATORS	Technology application at Rockwell International 06 p0078 N75-17189
Status of the BASA-Lewis flat-plate collector tests with a solar simulator 06 p0058 A75-27533	Research and technology operating plan summary: Fiscal year 1975 research and technology program space programs, energy technology, and
Outdoor flat-plate collector performance prediction from solar simulator test data [AIAA PAPER 75-741] 07 p0113 A75-32862	aerospace sciences [NASA-TM-X-70410] 06 p0096 M75-20155 Puture space transportation systems systems
Outdoor flat-plate collector performance prediction from solar simulator test data	analysis study, phase 1 technical report [NASA-CR-141856] 07 p0147 N75-24802
[NASA-TM-X-71707] 07 p0140 N75-24111 Standardized solar simulator tests of flat plate	SPACE SHUTTLE ORBITEES Electrical power generation subsystem for Space
solar collectors. 1: Soltex collector with two transparent covers	Shuttle Orbiter 05 p0002 A75-10477
[NASA-TH-X-71738] 07 p0141 N75-24118 Solar collector performance evaluation with the NASA-Lewis solar simulator-results for an	SPACE SHUTTLES Overcoming two significant hurdles to space power qeneration Transportation and assembly
all-glass-evacuated-tubular selectively-coated collector with a diffuse reflector [NASA-TM-X-71695] 08 p0207 N75-31568	[AIAA PAPER 75-641] 06 p0063 A75-28601 SPACE TRANSPORTATION Overcoming two significant hurdles to space power
Initial comparisons of solar collector performance data obtained out-of doors and with a solar	generation Transportation and assembly [AIAA PAPER 75-641] 06 p0063 A75-28601
simulator [NASA-TM-X-71626] 08 p0211 N75-32595	Propulsion technology needs for advanced space transportation systems
SOLID PROPELLARTS Use of low grade solid fuels in gas turbines	[AIAA PAPER 75-1246] 08 p0182 A75-45656 Puture space transportation systems systems
[ASHE PAPER 74-WA/ENER-5] 05 p0016 A75-16837 SOLIDS	analysis study, phase 1 technical report [NASA-CR-141856] 07 p0147 N75-24802 SPACEBORNE PHOTOGRAPHY
Energy recovery from solid waste production engineering model 06 p0079 N75-17200	The detection of geothermal areas from Skylab thermal data
Solids emission from power station furnaces industrial pollution control	[NASA-CR-143133] 07 p0158 N75-27540 SPACECRAFT COMPONENTS
[BLL-CE-TRANS-6524-(9022.09)] 07 p0157 #75-26528 SOLVENT EXTRACTION	Investigations and selection of components and materials for flexible solar generator
Development of a process for producing an ashless, low-sulfur fuel from coal. Volume 4. Product	O6 p0050 A75-24182 Solar collector thermal power system. Volume 1:
studies. Part 3 Products from coal minerals [PB-237764/6] Development of a process for producing an ashless,	Preliminary technology systems study [AD-A000940] Solar collector thermal power system. Volume 2:
low-sulfur fuel from coal. Volume 4. Product studies. Part 4. Sulfur removal from coal	Development, fabrication, and testing of fifteen foot heat pipes
minerals [PB-237765/3] 06 p0095 N75-19841 Development of a process for producing an ashless,	[AD-A000941] 06 p0091 H75-19340 Solar collector thermal power system. Volume 3: Basic study and experimental evaluation of
low-sulfur fuel from coal. Volume 4. Product studies. Part 5. Developmental and rate	thermal train components [AD-A000942] 06 p0091 H75-19341
studies in processing of coal minerals [PB-237766/1] 06 p0095 N75-19842 Solvent refined coal studios	SPACECRAFT DESIGN Interplanetary spacecraft design using solar
Solvent refined coal studies [PB-238532/6] 07 p0134 N75-22897 Technology and use of lignite	electric propulsion [AIMA PAPER 74-1084] The heat pipe - Its development, and its aerospace
[PB-238666/2] 07 p0142 H75-24131 SOUBDING ROCKETS	applications 05 p0015 A75-15054
The International Heat Pipe Experiment ten experiments in zero gravity	
[AĪAA PAPBE 75-726] 07 p0113 A75-32870	

SPACECEAPT ENVIRONMENTS SUBJECT INDEX

,		•	
SPACECRAPT ENVIRONMENTS The International Heat Pipe Exper:	iment ten	RTG electrical power for spacecra: Radioisotope Thermoelectric Gene	erators
experiments in zero gravity [AIAA PAPER 75-726]	07 p0113 A75-32870	Lasers investigated for space pro	
SPACECRAFT INSTRUMENTS Nuclear heat source for cryogenic	refrigerators in	Design and testing of an energy f	
space Pu-238 battery design	08 p0191 A75-46006	Integrated Power/Attitude Contro [AIAA PAPER 75-1107]	08 p0171 A75-41669
SPACECRAFT LAURCHING How spacecraft are fueled tech		Solar cells for power generation of satellites	
fueling spacecraft for flight	1101097 01	Satoriftes	08 p0174 A75-44005
[JPRS-63514]	05 p0027 N75-10983	Deployable Symphonie solar genera	
SPACECRAFT MODULES		[IAF PAPER 75-009]	08 p0183 A75-45819
The modular solar energy satellite on large solar cell surfaces in		Storage of energy in kinetic batto earth resources satellite	eries for an
purpose of earth power supply	space for the	[IAF PAPER ST-75-09]	08 p0183 A75-45875
[ILR-17-1974]	05 p0036 N75-14271	SEPS solar array design and techno	
SPACECRAFT POWER SUPPLIES	for Soon	mba ame e accesa accesas an accesas	08 p0192 A75-46016
Electrical power generation subsys Shuttle Orbiter	•	The ATS-6 power system - An optimi maximum power source utilization	
Solar electric propulsion spacecra	05 p0002 175-10477	Orbital solar energy technology ad	08 p0192 A75-46017
subsystem for an Encke comet ren		orbitur soldi energy technology at	08 p0192 A75-46018
	05 p0002 A75-10481	Space power application of the all	
Technology considerations for Orga	nic Rankine	mini-Brayton rotating unit /mini	
Cycle Electric Power Systems	05 p0002 A75-10484	Design and test of a flywheel ener	08 p0193 A75-46019
NASA objectives for improved solar		for spacecraft application	.gr Btorage unit
· · · · · · · · · · · · · · · · · · ·	05 p0002 A75-10485		08 p0193 A75-46028
Solar cell and array standardizati spacecraft	on for Mir Force	Power processor design considerati	ons for a solar
spacectart .	05 p0002 A75-10486	electric propulsion spacecraft [NASA-CR-140842]	05 p0029 N75-12064
RTG technology development - Where		Evaluation of an ion exchange member	
are going radioisotope there	oelectric	for space power	
generator	05 p0002 A75-10496	[AD-786888]	05 p0037 N75-14274
Performance testing of thermoelect		Development of advanced fuel cell [NASA-CR-134818]	07 p0154 N75-26496
at JPL	•	Solar energy power system	•
crin 10 ribin pro 614-bt 64	05 p0002 A75-10503	[NASA-CASE-MFS-21628-2]	08 p0202 N75-29548
SNAP 19 Viking RTG flight configur integration testing Radioiso		SPACECRAFT PROPULSION Nuclear propulsion technology tran	sfer to energy
Thermoelectric Generator		systems	
	05 p0003 A75-10504	[AIAA PAPER 74-1072]	05 p0001 A75-10264
Space power systems - Retrospect a [IAF PAPER 74-082]	05 p0014 A75-13714	Interplanetary spacecraft design version of the control of the con	sing solar
Recent advances in components of s			05 p0010 A75-11283
	05 p0014 A75-13715	Physics and potentials of fissioni	ng plasmas for
Analysis of different systems conc energy distribution on board a s		space power and propulsion [IAF PAPER 74-087]	05 p0015 A75-13719
[IAF PAPER 74-084]	05 p0014 A75-13716	Lasers investigated for space prop	
Advances in space rower generation		•	06 p0061 A75-28439
[IAP PAPER 74-086] Fundamentals of automatic control	05 p0015 A75-13718	French activity in electric propul	sion 07 p0120 175-36539
power plants Russian book	or space nucrear	Propulsion technology needs for ad	
· · · · · · · · · · · · · · · · · · ·	06 p0048 A75-23229	transportation systems	
Radiation effects on high efficien	cy silicon-solar		08 p0 182 175-45656
cells	06 p0051 A75-24197	Terrestrial and space applications controlled fusion concept	or the migma
Optimisation of solar cell shieldi			08 p0182 A75-45663
geostationary missions	04 -0054 175 00000	SPECIFIC HEAT	•
Photovoltaic power generation: Pro	06 p0051 A75-24203	Thermokinetics of a flat solar col constant heat capacity	lector of
International Conference, Hambur		•	08 p0171 A75-41768
September 25-27, 1974		Nuclear reactor process heat capab	
Historic development of photovolta	06 p0051 A75-24213	potential, and economics [CONF-741032-1]	A7 =A121 #75=22112
qeneration	ic power	SPECTRAL BEFLECTANCE	07 p0131 N75-22112
	06 p0051 A75-24215	Use of flexible reflective surface	s for solar
Development and space qualification		energy concentration	AC -AAEC 175-25670
high-efficiency silicon solar ce	06 p0052 A75-24218	Indium tin oxide-coated silicon as	06 p0056 A75-25678 a selective
Latest developments of the circula	r solar array	absorber for solar radiation	
with deployment structure fo	r central		08 p0195 A75-46951
antenna communication satellite	06 p0053 A75-24246	SPECTRAL SIGNATURES Laser induced luminescence signatu	res of refined
Design and qualification of the CT		and virgin crude petroleum - The	
blanket onboard Canadian Com	munications	and remote sensing implications	
Technology Satellite	06 20052 375-28200		06 p0050 A75-23790
Power generation for the X4 spacec	06 p0053 A75-24248 raft - A step in	SPECTROSCOPIC AWALYSIS Bass spectrometric analysis of pro	duct water from
the development of a high power/	mass ratio,	coal gasification	
hybrid solar array for applicati			07 p0158 %75-27120
Development of a flexible, fold-ou	06 p0053 A75-24251 t solar array	SPECTRUM AFALYSIS Temperature dependence of the spec	tral
power to weight ratio for co		characteristics of quick-respons	
satellites	06 p0053 A75-24252	photocells	07 p0119 A75-36013
		•	

SPECULAR REPLECTION Investigation of a solar concentrator with hexahedral glass facets 08 p0180 A75-49 SPONGES (NATERIALS) Hydrogen sponge heat pump carnot cycle system on lanthanum pentanickel 08 p0194 A75-49 SPRINGS (WATER)	E064
hexahedral glass facets 08 p0180 A75-49 SPONGES (NATERIALS) Hydrogen sponge heat pump carnot cycle system on lanthanum pentanickel 08 p0194 A75-46	5064
hexahedral glass facets 08 p0180 A75-49 SPONGES (NATERIALS) Hydrogen sponge heat pump carnot cycle system on lanthanum pentanickel 08 p0194 A75-46	E 0 6 4
SPONGES (NATERIALS) Hydrogen sponge heat pump carnot cycle system on lanthanum pentanickel 08 p0194 A75-46	5 A C 4
Bydrogen sponge heat pump carnot cycle system on lanthanum pentanickel 08 p0194 A75-46	1 900
on lanthanum pentanickel 08 p0194 175-46	
08 p0194 A75-46	•
	0035
Helium survey, a possible technique for locating geothermal reservoirs	
07 p0118 175-35	5438
STAINLESS STEELS	7750
Compatibility and reliability of heat pipe mater:	ials
[AIAA PAPER 75-660] . 07 p0114 A75-32	
STANDARDS	
Energy and environmental standards	
environmental standards and energy policy [GPO-37-171] 05 p0030 #75-12	
[GPO-37-171] 05 p0030 N75-12	2431
Interia standard for solar collectors, first dra	
[PB-239757/8] 07 p0150 #75-29	5313
STATIONARY ORBITS	
Optimisation of solar cell shielding for geostationary missions	
06 p0051 A75-2	1203
STATISTICAL ABALYSIS	1203
Statistical estimation of wildcat well outcome	
probabilities by visual analysis of structure	
contour maps of Stafford County, Kansas	
06 p0092 H75-19	9778
STATISTICAL CORRELATION	
Statistical relation between heat transfer from	3
closed area and meteorological parameters duri	ng
the use of a solar refrigerating plant	
08 p0169 A75-4	1072
STBAN	
Operational, maintenance, and environmental	
problems associated with a fossil fuel-fired	
potassium steam binary vapor cycle . [OBBL-NSF-EP-30] 06 p0090 N75-10	2760
[ORRIL-NSF-EP-30] 06 p0090 N75-10 The direct production of hydrocarbons from	703
Coal-steam systems	
[PB-239356/9] 07 p0138 N75-23	3740
STEAM PLOW	
Analytical description of the modern steam	
Analytical description of the modern steam automobile	
automobile [NASA-TH-X-72199] 05 p0035 N75-14	134
automobile [NASA-TH-X-72199] 05 p0035 H75-14 Coal processing by electrofluids	
automobile [NASA-TH-Y-72199] 05 p0035 H75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 H75-18	
automobile [NASA-TH-X-72199] 05 p0035 H75-16 Coal processing by electrofluids [PB-236588/0] 06 p0088 H75-18 Geothermal steam condensate reinjection	3,743
automobile [NASA-TH-I-72199] 05 p0035 M75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 M75-14 Geothermal steam condensate reinjection 06 p0102 M75-24	3,743
automobile [NASA-TH-I-72199] 05 p0035 H75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 H75-16 Geothermal steam condensate reinjection 06 p0102 H75-26	3,743
automobile [NASA-TH-I-72199] 05 p0035 E75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 E75-16 Geothermal steam condensate reinjection 06 p0102 E75-26 STEAM TURBINES A central receiver solar power plant in a hybrid	3.743 0863
automobile [NASA-TH-I-72199] 05 p0035 N75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 N75-18 Geothermal steam condensate reinjection 06 p0102 N75-26 STEAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam	3.743 0863
automobile [NASA-TH-I-72199] 05 p0035 N75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 N75-16 Geothermal steam condensate reinjection 06 p0102 N75-26 STRAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant	3,743 0863 n
automobile [NASA-TH-I-72199] 05 p0035 E75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 E75-16 Geothermal steam condensate reinjection 06 p0102 E75-26 STEAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [AILA PAPER 75-624] 06 p0062 A75-26	3,743 0863 n
automobile [NASA-TH-I-72199] 05 p0035 E75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 E75-16 Geothermal steam condensate reinjection 06 p0102 E75-26 STEAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [Alah PAPER 75-624] 06 p0062 A75-26 A non-polluting powerplant for large airships	3,743 0863 n 8596
automobile [NASA-TH-T-72199] 05 p0035 E75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 E75-16 Geothermal steam condensate reinjection 06 p0102 E75-26 STEAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [AIAM PAPER 75-624] 06 p0062 A75-26 A non-polluting powerplant for large airships [AIAA PAPER 75-927] 07 p0121 A75-3	3,743 0863 n 8596
automobile [NASA-TH-I-72199] 05 p0035 E75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 E75-16 Geothermal steam condensate reinjection 06 p0102 E75-26 STEAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [AIAA PAPER 75-624] 06 p0062 A75-26 A non-polluting powerplant for large airships [AIAA PAPER 75-927] 07 p0121 A75-3 The design of a solar cavity steam generator for	3,743 0863 n 8596
automobile [NASA-TH-I-72199] 05 p0035 E75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 E75-16 Geothermal steam condensate reinjection 06 p0102 E75-26 STEAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [AIAM PAPER 75-624] 06 p0062 A75-26 A non-polluting powerplant for large airships [AIAM PAPER 75-927] 07 p0121 A75-37 The design of a solar cavity steam generator for electrical power generation 08 p0190 A75-45	3,743 0863 n 8596 7005
automobile [NASA-TH-I-72199] 05 p0035 E75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 E75-16 Geothermal steam condensate reinjection 06 p0102 E75-26 STEAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [AIAA PAPER 75-624] 06 p0062 A75-26 A non-polluting powerplant for large airships [AIAA PAPER 75-927] 07 p0121 A75-37 The design of a solar cavity steam generator for electrical power generation 08 p0190 A75-45 Geothermal steam condensate reinjection	3,743 0863 n 8596 7005
automobile [NASA-TH-I-72199] 05 p0035 E75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 E75-16 Geothermal steam condensate reinjection 06 p0102 E75-26 STEAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [AIAA PAPER 75-624] 06 p0062 A75-26 A non-polluting powerplant for large airships [AIAA PAPER 75-927] 07 p0121 A75-37 The design of a solar cavity steam generator for electrical power generation 08 p0190 A75-46 Geothermal steam condensate reinjection 06 p0102 E75-26	3,743 0863 n 8596 7005
automobile [NASA-TH-I-72199] 05 p0035 E75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 E75-16 Geothermal steam condensate reinjection 06 p0102 E75-26 STEAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [AIAA PAPER 75-624] 06 p0062 A75-26 A non-polluting powerplant for large airships [AIAA PAPER 75-927] 07 p0121 A75-37 The design of a solar cavity steam generator for electrical power generation 08 p0190 A75-46 Geothermal steam condensate reinjection STEELS	3,743 0863 n 8596 7005
automobile [NASA-TH-I-72199] 05 p0035 E75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 E75-16 Geothermal steam condensate reinjection 06 p0102 E75-26 STEAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [ATAA PAPER 75-624] 06 p0062 A75-26 A non-polluting powerplant for large airships [ATAA PAPER 75-927] 07 p0121 A75-37 The design of a solar cavity steam generator for electrical power generation 08 p0190 A75-45 Geothermal steam condensate reinjection 06 p0102 E75-26 STEELS The impact of energy shortages on the iron and	3,743 0863 n 8596 7005
automobile [NASA-TH-I-72199] 05 p0035 E75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 E75-15 Geothermal steam condensate reinjection 06 p0102 E75-25 STEAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [AIAA PAPER 75-624] 06 p0062 A75-25 A non-polluting powerplant for large airships [AIAA PAPER 75-927] 07 p0121 A75-37 The design of a solar cavity steam generator for electrical power generation 08 p0190 A75-45 Geothermal steam condensate reinjection STEELS The impact of energy shortages on the iron and steel industries	3,743 0863 n 9596 7005 5982 0863
automobile [NASA-TH-I-72199] Coal processing by electrofluids [PB-236588/0] Geothermal steam condensate reinjection O6 p0102 N75-20 STEAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [AIAM PAPER 75-624] A non-polluting powerplant for large airships [AIAM PAPER 75-927] The design of a solar cavity steam generator for electrical power generation Geothermal steam condensate reinjection STEELS The impact of energy shortages on the iron and steel industries [PB-238749/6] O7 p0145 N75-20	3,743 0863 n 9596 7005 5982 0863
automobile [NASA-TH-I-72199] 05 p0035 E75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 E75-16 Geothermal steam condensate reinjection 06 p0102 E75-26 STRAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [ATAA PAPER 75-624] 06 p0062 A75-26 A non-polluting powerplant for large airships [ATAA PAPER 75-927] 07 p0121 A75-37 The design of a solar cavity steam generator for electrical power generation 08 p0190 A75-45 Geothermal steam condensate reinjection 06 p0102 E75-26 STRELS The impact of energy shortages on the iron and steel industries [PB-238749/6] 07 p0145 E75-26 STRLLARATORS	3,743 0863 n 9596 7005 5982 0863
automobile [NASA-TH-I-72199] 05 p0035 E75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 E75-15 Geothermal steam condensate reinjection 06 p0102 E75-25 STEAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [AIAA PAPER 75-624] 06 p0062 A75-25 A non-polluting powerplant for large airships [AIAA PAPER 75-927] 07 p0121 A75-37 The design of a solar cavity steam generator for electrical power generation 08 p0190 A75-45 Geothermal steam condensate reinjection 08 p0190 A75-25 STELLS The impact of energy shortages on the iron and steel industries [PB-238749/6] 07 p0145 E75-25 STELLARATORS Plasma heating methods for controlled fusion	3,743 0863 n 9596 7005 5982 0863
automobile [NASA-TH-I-72199] 05 p0035 E75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 E75-16 Geothermal steam condensate reinjection 06 p0102 E75-26 STEAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [AIAA PAPER 75-624] 06 p0062 A75-26 A non-polluting powerplant for large airships [AIAA PAPER 75-927] 07 p0121 A75-37 The design of a solar cavity steam generator for electrical power generation Geothermal steam condensate reinjection STEELS The impact of energy shortages on the iron and steel industries [PB-238749/6] 07 p0145 E75-26 STELLARATORS Plasma heating methods for controlled fusion 07 p0119 A75-33	3,743 0863 n 9596 7005 5982 0863
automobile [NASA-TH-I-72199] 05 p0035 E75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 E75-16 Geothermal steam condensate reinjection STRAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [AIAM PAPER 75-624] 06 p0062 A75-26 A non-polluting powerplant for large airships [AIAM PAPER 75-927] 07 p0121 A75-37 The design of a solar cavity steam generator for electrical power generation 08 p0190 A75-49 Geothermal steam condensate reinjection 06 p0102 E75-26 STRELS The impact of energy shortages on the iron and steel industries [PB-238749/6] 07 p0145 E75-26 STRLLARATORS Plasma heating methods for controlled fusion 07 p0119 A75-39	3,743 0863 n 9596 7005 5982 0863
automobile [NASA-TH-I-72199] 05 p0035 E75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 E75-15 Geothermal steam condensate reinjection 06 p0102 E75-25 STEAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [AIAA PAPER 75-624] 06 p0062 A75-25 A non-polluting powerplant for large airships [AIAA PAPER 75-927] 07 p0121 A75-37 The design of a solar cavity steam generator for electrical power generation 08 p0190 A75-45 Geothermal steam condensate reinjection 08 p0102 E75-25 STELLS The impact of energy shortages on the iron and steel industries [PB-238749/6] 07 p0145 E75-25 STELLARATORS Plasma heating methods for controlled fusion 07 p0119 A75-35 Solar stills for agricultural purposes	3743 0863 1 1 35596 7005 55982 0863 1158
automobile [NASA-TH-I-72199] 05 p0035 E75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 E75-16 Geothermal steam condensate reinjection STRAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [AIAM PAPER 75-624] 06 p0062 A75-26 A non-polluting powerplant for large airships [AIAM PAPER 75-927] 07 p0121 A75-37 The design of a solar cavity steam generator for electrical power generation 08 p0190 A75-49 Geothermal steam condensate reinjection 06 p0102 E75-26 STRELS The impact of energy shortages on the iron and steel industries [PB-238749/6] 07 p0145 E75-26 STRLLARATORS Plasma heating methods for controlled fusion 07 p0119 A75-39	3743 0863 1 1 35596 7005 55982 0863 1158
automobile [NASA-TH-I-72199] 05 p0035 E75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 E75-16 Geothermal steam condensate reinjection 06 p0102 E75-26 STEAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [AIAM PAPER 75-624] 06 p0062 A75-26 A non-polluting powerplant for large airships [AIAM PAPER 75-927] 07 p0121 A75-37 The design of a solar cavity steam generator for electrical power generation Geothermal steam condensate reinjection STEELS The impact of energy shortages on the iron and steel industries [PB-238749/6] 07 p0145 E75-26 STELLARATORS Plasma heating methods for controlled fusion 07 p0119 A75-38 STILLARATORS STILLS Solar stills for agricultural purposes	3743 0863 1 1 35596 7005 55982 0863 1158
automobile [NASA-TH-I-72199] 05 p0035 E75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 E75-15 Geothermal steam condensate reinjection 06 p0102 E75-25 STEAM TURBIES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [AIAA PAPER 75-624] 06 p0062 A75-25 A non-polluting powerplant for large airships [AIAA PAPER 75-927] 07 p0121 A75-37 The design of a solar cavity steam generator for electrical power generation 6 p0102 A75-45 Geothermal steam condensate reinjection STEELS The impact of energy shortages on the iron and steel industries [PB-238749/6] 07 p0145 E75-25 STELLARATORS Plasma heating methods for controlled fusion STILLS Solar stills for agricultural purposes STIRLIEG CYCLE Prospects for using dynamic thermocompression	3743 0863 1 1 35596 7005 55982 0863 1158
automobile [NASA-TH-I-72199] 05 p0035 E75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 E75-15 Geothermal steam condensate reinjection 06 p0102 E75-25 STEAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [AIAA PAPER 75-624] 06 p0062 A75-25 A non-polluting powerplant for large airships [AIAA PAPER 75-927] 07 p0121 A75-37 The design of a solar cavity steam generator for electrical power generation Geothermal steam condensate reinjection STEELS The impact of energy shortages on the iron and steel industries [PB-238749/6] 07 p0145 E75-25 STELLARATORS Plasma heating methods for controlled fusion 07 p0119 A75-35 STILLS Solar stills for agricultural purposes 07 p0115 A75-35 STILLING CYCLE Prospects for using dynamic thermocompression converter in solar power plants	3743 0863 1 3596 7005 55982 0863 1158 55920
automobile [NASA-TH-I-72199] 05 p0035 E75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 E75-15 Geothermal steam condensate reinjection 06 p0102 E75-25 STEAM TURBIES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [AIAA PAPER 75-624] 06 p0062 A75-25 A non-polluting powerplant for large airships [AIAA PAPER 75-927] 07 p0121 A75-37 The design of a solar cavity steam generator for electrical power generation 6eothermal steam condensate reinjection 08 p0190 A75-45 Geothermal steam condensate reinjection 08 p0190 A75-45 STELLS The impact of energy shortages on the iron and steel industries [PB-238749/6] 07 p0145 E75-25 STELLARATORS Plasma heating methods for controlled fusion 07 p0119 A75-35 STILLES Solar stills for agricultural purposes STIRLIEG CYCLE Prospects for using dynamic thermocompression converter in solar power plants Stirling engines - Capabilities and prospects	3743 0863 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
automobile [NASA-TH-I-72199] 05 p0035 E75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 E75-16 Geothermal steam condensate reinjection 06 p0102 E75-26 STEAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [AIAA PAPER 75-624] 06 p0062 A75-26 A non-polluting powerplant for large airships [AIAA PAPER 75-927] 07 p0121 A75-37 The design of a solar cavity steam generator for electrical power generation Geothermal steam condensate reinjection STERIS The impact of energy shortages on the iron and steel industries [PB-238749/6] 07 p0145 E75-26 STELLARATORS Plasma heating methods for controlled fusion 07 p0119 A75-38 STILLARATORS STILLARATORS Plasma heating methods for controlled fusion 07 p0119 A75-38 STILLARATORS STILLIEG CYCLE Prospects for using dynamic thermocompression converter in solar power plants 05 p0020 A75-17 Stirling engines - Capabilities and prospects	3743 0863 1 1 1 2 3 3 5 9 8 2 3 3 3 3 3 5 9 8 3 3 5 9 8 3 3 5 9 8 3 5 9 8 3 3 8 3 3 8 3 3 8 3 3 3 3 3 3 3 3 3
automobile [NASA-TH-I-72199] 05 p0035 E75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 E75-15 Geothermal steam condensate reinjection 06 p0102 E75-25 STEAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [AIAA PAPER 75-624] 06 p0062 A75-25 A non-polluting powerplant for large airships [AIAA PAPER 75-927] 07 p0121 A75-37 The design of a solar cavity steam generator for electrical power generation 08 p0190 A75-45 Geothermal steam condensate reinjection 08 p0102 E75-25 The impact of energy shortages on the iron and steel industries [PB-238749/6] 07 p0145 E75-25 STELLARATORS Plasma heating methods for controlled fusion 07 p0119 A75-35 STILLS Solar stills for agricultural purposes 07 p0115 A75-35 STILLING CYCLE Prospects for using dynamic thermocompression converter in solar power plants 05 p0020 A75-17 Stirling engines - Capabilities and prospects 06 p0048 A75-25 The Stirling engine for vehicle propulsion	3743 0863 1 1 9596 7005 5982 0863 1158 5920 9972
automobile [NASA-TH-I-72199] 05 p0035 E75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 E75-15 Geothermal steam condensate reinjection 06 p0102 E75-25 STEAM TURBIES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [AIAA PAPER 75-624] 06 p0062 A75-25 A non-polluting powerplant for large airships [AIAA PAPER 75-927] 07 p0121 A75-37 The design of a solar cavity steam generator for electrical power generation Geothermal steam condensate reinjection STEELS The impact of energy shortages on the iron and steel industries [PB-238749/6] 07 p0145 E75-25 STELLARATORS Plasma heating methods for controlled fusion 07 p0119 A75-35 STILLES Solar stills for agricultural purposes STIRLIEG CYCLE Prospects for using dynamic thermocompression converter in solar power plants Stirling engines - Capabilities and prospects 06 p0048 A75-25 The Stirling engine for vehicle propulsion 06 p0050 A75-25	3743 0863 1 1 9596 7005 5982 0863 1158 5920 9972
automobile [NASA-TH-I-72199] Coal processing by electrofluids [PB-236588/0] Geothermal steam condensate reinjection Of p0102 H75-26 STEAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [AIAA PAPER 75-624] A non-polluting powerplant for large airships [AIAA PAPER 75-927] The design of a solar cavity steam generator for electrical power generation Geothermal steam condensate reinjection STELLS The impact of energy shortages on the iron and steel industries [PB-238789/6] STELLARATORS Plasma heating methods for controlled fusion 07 p0119 A75-32 STILLARATORS STILLARATORS Plasma heating methods for controlled fusion 07 p0119 A75-33 STILLARATORS STILLING CECLE Prospects for using dynamic thermocompression converter in solar power plants Stirling engines - Capabilities and prospects Of p0020 A75-17 Stirling engines for vehicle propulsion 06 p0048 A75-22 The Stirling engine for vehicle propulsion 06 p0050 A75-23 A 100 watt Stirling electric generator for solar	3743 0863 1 1 9596 7005 5982 0863 1158 5920 9972
automobile [NASA-TH-I-72199] 05 p0035 N75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 N75-14 Geothermal steam condensate reinjection 06 p0102 N75-24 STEAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [AIAA PAPER 75-624] 06 p0062 A75-24 A non-polluting powerplant for large airships [AIAA PAPER 75-927] 07 p0121 A75-37 The design of a solar cavity steam generator for electrical power generation 6 p0190 A75-49 Geothermal steam condensate reinjection 08 p0190 A75-49 Geothermal steam condensate reinjection STEELS The impact of energy shortages on the iron and steel industries [PB-238749/6] 07 p0145 N75-29 STELLARTORS Plasma heating methods for controlled fusion 07 p0119 A75-39 STILLES Solar stills for agricultural purposes 07 p0115 A75-33 STILLING CYCLE Prospects for using dynamic thermocompression converter in solar power plants 05 p0020 A75-17 Stirling engines - Capabilities and prospects 06 p0048 A75-22 The Stirling engine for vehicle propulsion 06 p0050 A75-23	3743 0863 1 1 9596 7005 5982 0863 1158 5920 3972 7076 3237
automobile [NASA-TH-I-72199] Coal processing by electrofluids [PB-236588/0] Geothermal steam condensate reinjection Of p0102 N75-26 STEAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [AIAA PAPER 75-624] A non-polluting powerplant for large airships [AIAA PAPER 75-927] The design of a solar cavity steam generator for electrical power generation Geothermal steam condensate reinjection STELS The impact of energy shortages on the iron and steel industries [PB-238749/6] STHLLMANTORS Plasma heating methods for controlled fusion OT p0119 A75-35 STILLMANTORS STILLS Solar stills for agricultural purposes STILLING CYCLE Prospects for using dynamic thermocompression converter in solar power plants O5 p0020 A75-17 Stirling engines - Capabilities and prospects O6 p0048 A75-22 The Stirling engine for vehicle propulsion O6 p0050 A75-23 A 100 watt Stirling electric generator for solar or solid fuel heat sources	3743 0863 1 1 9596 7005 5982 0863 1158 5920 3972 7076 3237
automobile [NASA-TH-I-72199] Coal processing by electrofluids [PB-236588/0] Geothermal steam condensate reinjection Of p0102 N75-26 STEAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [AIAM PAPER 75-624] A non-polluting powerplant for large airships [AIAM PAPER 75-927] The design of a solar cavity steam generator for electrical power generation Geothermal steam condensate reinjection STELS The impact of energy shortages on the iron and steel industries [PB-238749/6] STELLARATORS Plasma heating methods for controlled fusion O7 p0119 A75-32 STILLARATORS STILLS Solar stills for agricultural purposes STILLING CYCLE Prospects for using dynamic thermocompression converter in solar power plants O5 p0020 A75-12 Stirling engines - Capabilities and prospects O6 p0048 A75-22 The Stirling engine for vehicle propulsion O6 p0102 A75-12 O6 p0050 A75-23 A 100 watt Stirling electric generator for solar or solid fuel heat sources O8 p0192 A75-46 Stirling cycle engine and refrigeration systems	3743 0863 1 1 9596 7005 55982 0863 1158 55920 7076 3237 7076 3237
automobile [NASA-TH-I-72199] 05 p0035 E75-14 Coal processing by electrofluids [PB-236588/0] 06 p0088 E75-14 Geothermal steam condensate reinjection 06 p0102 E75-24 STEAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [AIAA PAPER 75-624] 06 p0062 A75-24 A non-polluting powerplant for large airships [AIAA PAPER 75-927] 07 p0121 A75-37 The design of a solar cavity steam generator for electrical power generation 6 p0100 A75-49 Geothermal steam condensate reinjection 08 p0190 A75-49 Geothermal steam condensate reinjection STEELS The impact of energy shortages on the iron and steel industries [PB-238749/6] 07 p0145 E75-29 STELLARTORS Plasma heating methods for controlled fusion 07 p0119 A75-39 STILLES Solar stills for agricultural purposes 07 p0115 A75-39 STILLES CYCLE Prospects for using dynamic thermocompression converter in solar power plants 05 p0020 A75-12 Stirling engines - Capabilities and prospects 06 p0048 A75-22 The Stirling engine for vehicle propulsion 06 p0050 A75-22 Stirling cycle engine and refrigeration systems (WASA-CASE-NPO-13613-1) 07 p0133 E75-22	3743 0863 1 1 9596 7005 55982 0863 1158 55920 7076 3237 7076 3237
automobile [NASA-TH-I-72199] Coal processing by electrofluids [PB-236588/0] Geothermal steam condensate reinjection Of p0102 N75-26 STEAM TURBINES A central receiver solar power plant in a hybrid mode of operation solar/fossil-fueled steam power plant [AIAM PAPER 75-624] A non-polluting powerplant for large airships [AIAM PAPER 75-927] The design of a solar cavity steam generator for electrical power generation Geothermal steam condensate reinjection STELS The impact of energy shortages on the iron and steel industries [PB-238749/6] STELLARATORS Plasma heating methods for controlled fusion O7 p0119 A75-32 STILLARATORS STILLS Solar stills for agricultural purposes STILLING CYCLE Prospects for using dynamic thermocompression converter in solar power plants O5 p0020 A75-12 Stirling engines - Capabilities and prospects O6 p0048 A75-22 The Stirling engine for vehicle propulsion O6 p0102 A75-12 O6 p0050 A75-23 A 100 watt Stirling electric generator for solar or solid fuel heat sources O8 p0192 A75-46 Stirling cycle engine and refrigeration systems	3743 0863 1 1 9596 7005 55982 0863 1158 55920 7076 3237 7076 3237

```
STOCHASTIC PROCESSES
     Principles of a composite study involving combined
        use of solar and wind energy
                                                             07 p0122 A75-37160
STOCKPILING
    Puel and energy data: United States by states and regions, 1972
. [PB-236581/5] 06 p0077 H75-1700
                                                             06 p0077 N75-17004
STORAGE
     Metal hydrides as hydrogen storage media
        [BBL-18887]
                                                             05 p0030 H75-12440
STORAGE BATTERIES
     Operating experiences with terrestrial solar battery systems in Japan
                                                             05 p0005 A75-10531
    60 watt hydride-air fuel cell system
05 p0008 A75-10567
Predicted energy densities for nickel-hydrogen and
silver-hydrogen cells embodying metallic
        hydrides for hydrogen storage
     05 p0008 A75-10572
The impact of advanced batteries on electric power
        generation
                                                             05 p0013 A75-12991
     Recent advances in components of space power systems
[IAP PAPER 74-083] 05 p0014 A75-13715
Analysis of different systems concerning the
        energy distribution on board a satellite
     [INP PAPER 74-084] 05 p0014 A75-13716
Corrosion and related problems in high-temperature
        cells
                                                            06 p0055 A75-24377
    Pundamental research on the selection of new electrochemical generators of medium power 06 p0060 175-27827
     Storage of energy in kinetic batteries for an
        earth resources satellite [IAF PAPER ST-75-09]
                                                             08 p0183 A75-45875
     Bnergy storage by high-pressure,
        moderate-temperature electrolytic techniques
                                                            08 p0185 175-45931
     Nickel-hydrogen secondary battery
    08 p0191 A75-45997
Nickel-hydrogen as an alternative to lead-acid and nickel-cadmium systems in non-space applications
08 p0191 A75-45998
     Sulfur-based lithium-organic electrolyte secondary
        batteries
        [AD-A003309]
                                                            06 p0104 N75-20882
     Development of a soluble reactants and products
        secondary 'battery
                                                            07 p0127 N75-2179Q
STORAGE STABILITY.
     Technology and Current practices for processing,
transferring and storing liquefied natural gas
[PB-241048/8] 08 p0202 B75-29271
STORAGE TANKS
     Thermal energy storage devices suitable for solar
    05 p0007 A75-10553
A hot liquid energy storage system utilizing
natural circulation
[ASME PAPER 74-WA/HT-16]
Storage of summerties
        heating
    [ASME PAPER 74-MA/HT-16] 05 p0017 A75-16862
Storage of summertime waste heat from electric generating plants for use in wintertime
[AIAA PAPER 75-743] 07 p0113 A75-32852
Improving the oil storage system of western Siberia
[AD-A002717] 06 p0092 H75-19705
Brecting gas storage facilities and oil centers
[AD-A006559] 07 p0134 H75-22783
Pluid manifold design for a solar energy storage tank
        tank [NASA-TH-X-64940]
STORM DAMAGE
    OCS oil and gas: An environmental assessment, volume 3 --- effect of natural phenomena on OCS
        gas and oil development
                                                             06 p0083 #75-17836
STRATIGRAPHY
    NATIGRAPHY
Stratigraphy, sedimentology and oil and gas
geology of the Lower Cretaceous in central Alberta
07 p0137 B75-22961
STRBAM PUBCTIONS (FLUIDS)
Steady state free convection in an unconfined
        geothermal reservoir
                                                            05 p0009 A75-11069
```

STRESS-STRAIN DIAGRAMS SUBJECT INDEX

STRESS-STRAID DIAGRAMS Investigations and selection of co	Amnopente and	SULPUR	ffi
materials for flexible sclar get		Characterization of sulfur recove fuel gas	ry from refinery
	06 p0050 A75-24182	[PB-239777/6]	07 p0151 N75-25326
STRIP HINING Determine utility of ERTS-1 to de	tect and monitor	SULFUR COMPOUNDS The hydrogen sulfide emissions ab	atement program
area strip mining and reclamation		at the Geysers Geothermal Power	
southeastern Ohio	A7 -A160 B75-37516	Colton to cools	06 p0102 B75-20859
[E75~10327] STEOHTIUM FLUORIDES	07 p0158 N75-27515	Sulfer in coals [TT-70-57216]	07 p0155 #75-26503
Strontium fluoride research in he		SULPUR OXIDES	. Fo. 100 210 20000
compatibility tests waste uf [BNWL-1845-2]	tilization 07 p0152 N75-25695	Mineral resources and the environ	
Strontium heat source development		to section 3: Report of panel implications of mineral product.	
waste utilization	07 0450 075 45505	and the environment	
[BHWL-1845-4] STRUCTURAL AWALYSIS	07 p0152 N75-25696	[PB-239582/0] Report to Congress on control of	07 p0153 N75-26489
Structural analysis of wind turbin	ne rotors for	[PB-241021/5]	08 p0204 H75-29597
NSF-NASA Hod-O wind power system	■ .06 =0000 MTE-47743	SON	
[NASA-TM-X-3198] Coal structure and reactivity	06 p0080 N75-17712	Our prodigal sun solar energy [MASA-EP-118]	05 p0032 N75-12885
[TID-26637]	06 p0097 N75-20805	SUESPOTS	_
Potential structural material prob hydrogen energy system	blems in a	The nature of the sunspot phenomer	
[HASA-TH-X-71752]	07 p0154 N75-26500	consumption and energy transport intrinsic instability of the mag	
STRUCTURAL DESIGN		configuration	
Solar cell modules for lightweight		SUPERCONDUCTING MAGNETS	06 p0064 A75-29137
	06 p0057 A75-26068	Will superconducting magnetic ener	rgy storage be
The Shell natural gas airship, and		used on electric utility systems	
activities by Aerospace Develops [AIAA PAPER 75-932]	07 p0121 A75-37008	Superconducting synchronous machin	06 p0056 A75-25832 ne
Economic and energy conservation i	relationship		06 p0061 A75-27967
relevant to state of New York by and contract awards	allding design	Cryogenic engineering and fusion p superconducting magnet applicati	
[PB-237006/2]	06 p0082 N75-17824	design	ton to reactor
An interdisciplinary engineering a		g	08 p0173 A75-43979
facility design study with empha conservation. Volume 2: Main n		Superconducting magnetic energy st pinch thermonuclear fusion test	
[AD-A006804]	07 p0142 N75-24129	[LA-UR-74-737]	05 p0032 N75-12814
Propulsion units for high speed st [JPRS-64897]	11ps 07 p0148 N75-25295	Energy and cryoengineering [LA-UR-74-741]	06 p0082 B75-17814
Research design construction and e		SUPERCONDUCTING POWER TRANSMISSION	00 p0002 B/3-1/014
low energy utilization school, r		Application of superconducting ele	
[PB-242217/8] STRUCTURAL DESIGN CRITERIA	08 p0213 N75-33504	machinery to the propulsion syst commercial vessels gas turbi	
Design analysis of asymmetric sola		[COB-75-10137]	07 p0147 N75-25200
[SAND-74-0124] Solar 10 kW turbcalternator silent	06 p0076 N75-16986	SUPERCONDUCTIVITY A superconducting microwave engine	
	08 p0203 N75-29555	a depersondanceing microwave engine	06 p0056 A75-25831
STRUCTURAL BEGINEBRING	approach to a	Cryogenic Engineering Conference,	
An interdisciplinary engineering a facility design study with empha		Institute of Technology, Atlanta 8-10, 1973, Proceedings	, Ga., August
conservation. Volume 1: Execut	ive summary		08 p0173 A75-43976
[AD-A006803] An interdisciplinary engineering a	07 p0149 N75-25304	Fisconsin superconductive energy s volume 1	storage project,
facility design study with empha			06 p0105 N75-20887
conservation. Volume 3: Append		SUPERCONDUCTORS	
[AD-A006805] SUBSIDENCE	07 p0149 N75-25305	The Blectric Power Research Instit applying superconductivity to fu	
Remote sensing applied to mine sub		systems	
Experience in Pennsylvania and t	o7 p0121 A75-36809	A high-speed superconducting gener	06 p0056 A75-25827
SUBSONIC AIRCRAPT	_		06 p0060 A75-27960
The use of hydrogen in commercial	aircraft - An	Superconductive d.c. generator	06 -0064 175-27064
assessment	05 p0006 A75-10542	Main problems set in the study of	06 p0061 A75-27961 cryogenic
Advanced subsonic transports - A c		generators	
1990's [AIAA PAPER 75-304]	06 p0049 A75-23251	Economic and system aspects of a s	06 p0061 A75-27962
On the future of jet propulsion in		magnetic energy storage device a	
transport aviation	06 00050 175-27777	superconducting transmission lin	e 06 p0091 #7 5-19080
Eydrogen for the subsonic transpor	06 p0058 175-27777 t aircraft	SUBSTRUCTS STREET	•
design and fuel requirements		, Conceptual design of reduced energ	y transports
SUBSORIC PLOW	08 p0 178 A75-44791	[[AIAA PAPER 75-303] . Study of active cooling for supers	00 P0041 M13-22308
Possible development of acoustical		. [WASA-CR-132573]	06 p0079 #75-17336
a system consisting of a combust	ion chamber and	SURPACE COOLING	storal curface
a subsonic MHD generator	06 p0045 A75-19959	Effect of heat transfer from the 1 of semiconductor thermocouples of	
Substrates	-	characteristics of a thermoelect	ric generator
Polycrystalline silicon layers for	08 p0165 175-38958	SURPACE EMBRGY	05 p0021 A75-18798
SUBURBAN ARBAS	-	Het radiation and other energy-rel	ated maps from
Assessment of a single family resi heating system in a suburban dev		remotely sensed imagery	07 p0121 A75-36811
	08 p0203 #75-29570		• • • • • • • • • • • • • • • • • • • •

SUBJECT INDEX SISTERS ENGINEERING

SURPACE PINISHING	Char oil energy development
V-grooved silicon solar cells 07 p0123 A75-37397	[PB-233263/3] 05 p0025 M75-10603 Coal processing by electrofluids
SURFACE GEOMETRY	[PB-236586/0] 06 p0088 E75-18743 Synthetic Liquid Fuel Research and Development Act
The COMSAT non-reflective silicon solar cell - A second generation improved cell	of 1974 energy conservation and cost analyses
06 p0053 A75-24245 Trapezoidal grooves as soderately concentrating	[GPO-44-818] 06 p0103 H75-20867 Synthetic fuels for ground transportation with
solar energy collectors	special emphasis on hydrogen
[AIAA PAPER 75-738] 07 p0113 A75-32860 Determination of the surface shapes of film-type	Synthetic fuels from fusion reactors
solar energy concentrators with seams 07 p0119 A75-36017	[BNL-19351] 06 p0106 H75-21098 Synopsis of studies on synthetic fuels production
Calculation of the radiant energy field for a biparaboloidal radiation furnace with a carbon arc	by fusion reactors [BNL-19336] 06 p0106 N75-21104
08 p0170 A75-41540	Technology assessment of portable energy RDT and
Influence of the geometrical development of the cathode surface on the specific power of a	P, phase 1 [NASA-CR-137653] 07 p0134 N75-22902
thermionic converter with surface ionization 08 p0173 A75-43860	Preparation of gas turbine engine fuel from synthetic crude oil derived from coal
The evaluation of surface geometry modification to	[AD-A007923] 07 p0147 H75-24966
improve the directional selectivity of solar energy collectors	Conversion of cellulosic wastes to oil [PB-240839/1] 07 p0161 N75-27572
[PB-236412/3] 06 p0083 N75-17830 SURPACE IONIZATION	Process and environmental technology for producing SHG and liquid fuels
Influence of the geometrical development of the	[PB-242774/8] 08 p0212 H75-33491
cathode surface on the specific power of a thermionic converter with surface ionization	SYSTEM RFFECTIVENESS Electrostatic voltage generation from flowing water
08 p0173 A75-43860 SURFACE MAVIGATION	05 p0009 A75-10580 Derivation of a total satellite energy system
The use of solar cells in the lighthouse service 06 p0054 175-24255	solar power station for terrestrial consumption [AIAA PAPER 75-640] 06 p0064 A75-29118
SURFACE PROPERTIES	On the optimum tilt of a solar collector
Surface electronic properties and the search for new hydrogen oxidation catalysts	07 p0115 A75-33971 Getting at the big facts in transportation
08 p0178 A75-44795 Air-stable selective surfaces for solar energy	private and public transit efficiencies 08 p0173 A75-42973
collectors [PB-236196/2] 06 p0071 N75-16116	Assessment of a single family residence solar heating system in a suburban development setting
Fracture-induced permeability: Present situation	[PB-240784/9] 08 p0203 N75-29552
and prospects for coal [BCID-16593] 06 p0094 H75-19830	SYSTEMS AWALYSIS Energy systems - Modeling and policy analysis
The evaluation of surface geometry modification to improve the directional selectivity of solar	06 p0055 A75-24750 Solar power system and component research program
energy collectors	[PB-236159/0] 05 p0037 N75-14280 Electric power systems analysis research
[PB-238509/4] 07 p0130 H75-21822 SURPACE VEHICLES	[PB-239236/3] 07 p0143 N75-24139
Mode shift strategies in intercity transportation and their effect on energy consumption	Using systems methods for analysing integrated energy supply, summary
[AIAA PAPER 75~315] 06 p0055 A75-25013 SURFACE WATER	[BLL-CE-TRANS-6473-(9022.09)] 07 p0153 N75-26491 SISTEMS ENGINEERING
Determine utility of ERTS-1 to detect and monitor	Cost effective designing for the economic RTG radioisotope thermoelectric generators
area strip mining and reclamation southeastern Ohio	05 p0003 A75-10507
[R75-10327] 07 p0158 H75-27515 SURFACTANTS	Light-weight radioisotope thermoelectric generator design
Oil displacement by different surfactant and polymer waterflood systems	05 p0003 A75-10508 A planning methodology for the analysis and design
07 p0134 N75-22858	of wind-power systems 05 p0004 A75-10517
STHPHONIE SATELLITES The technology of the solar generator on the	Small coal burning gas turbine for modular
Symphonie satellite 06 p0053 A75-24237	integrated utility systems 05 p0006 A75-10546
Deployable Symphonie solar generator [IAP PAPER 75-009] 08 p0183 A75-45819	Independent energy systems for better efficiency 05 p0006 A75-10549
STECHRONOUS HOTORS	Conceptual design of a series of laser-fusion
Superconducting synchronous machine 06 p0061 A75-27967	power plants of 100 to 3000 MW/e/ 05 p0007 A75-10562
SYECHROBOUS SATELLITES The technology of the solar generator on the	Sizing of solar energy storage systems using local weather records
Symphonie satellite 06 p0053 A75-24237	[ASME PAPER 74-WA/HT-20] 05 p0017 A75-16865 Systems aspects of ocean thermal energy conversion
Geosynchronous satellite solar power energy	[AIAA PAPER 75-615] 06 p0062 A75-28593
transmission to earth 07 p0111 A75-31272	100 MWe solar power plant design configuration and performance
Comparison and evaluation of nuclear power plant options for geosynchronous power stations	[AIAA PAPER 75-623] 06 p0062 A75-28595 Design and construction of a residential solar
08 p0193 A75-46027	heating and cooling system 07 p0109 A75-29472
Conceptual design of a heat pipe methanator	Solar-thermal electric power
conversion of synthesis coal gas to methane [LA-5596] 06 p0074 B75-16774	Ocean thermal energy conversion
Bio-conversion of water hyacinths into methane gas, part 1	07 p0111 A75-31274 Hinimum cost solar thermal electric power systems
[BASA-TH-X-72725] 07 p0160 H75-27564	- A dynamic programming based approach 07 p0112 A75-32097
The economics of ccal-based synthetic gas	Optimal solar energy collector system
08 p0168 A75-39925	07 p0115 A75-33970

	·
Component design considerations for gas turbine HTGR power plant High-Temperature Gas-cooled Reactor	THE SANDS Buergy from US and Canadian tar sands: Technical, environmental, economic, legislative, and policy
[ASHE PAPER 75-GT-67] 07 p0116 A75-34620 Solar air conditioning systems using Eankine power	aspects [GPO-43-005] 06 p0067 B75-16083
cycles - Design and test results of prototype three ton unit	TECHNOLOGICAL FORECASTING Hydrogen for the electric utilities - Long range
07 p0117 A75-34931 Principles of a composite study involving combined	possibilities 05 p0005 175-10536
use of solar and wind energy 07 p0122 A75-37160 Generalizations of composite studies involving	Next generation transports will emphasize fuel savings
combined use of wind and solar energy 07 p0122 A75-37161	05 p0011 A75-11426 Puel outlook dictating technical transport research 05 p0011 A75-11427
Development of the KIVA-I MHD open cycle generator 07 p0124 A75-37686	Pusion reactors as future energy sources 05 p0011 A75-11735
Solar energy powered systems - History and current status	Solar energy conversion and storage systems for the future
08 p0168 A75-40298 Generation schemes for wind power plants 08 p0169 A75-40688	05 p0013 A75-12988 The impact of advanced batteries on electric power generation
A large mechanical contracting corporation solar heats its own offices	05 p0013 A75-12991 Current expectations for fusion power from
08 p0184 A75-45924 An integrated solar heated and cooled mobile home	toroidal machines 05 p0014 175-12996
08 p0184 A75-45927 Application of fuel cells with heat recovery for integrated utility systems	Windpower - Look backward, then move forward confidently for electric power generation in rural areas
08 p0187 A75-45949 The design of a solar cavity steam generator for	05 p0014 A75-12997 U.S. energy resources - Outlook for the future
electrical power generation 08 p0190 A75-45982	05 p0014 A75-12999 Prospects for tapping solar energy on a large scale
Advanced heat source concepts module design for space electric power generation [NLM-2134] 05 p0024 N75-10591	05 p0015 A75-14014 Power from ocean waves [ASHE PAPER 74-WA/PWR-5] 05 p0018 A75-16879
Caltech seminar series on energy consumption in private transportation	The energy perspective world fossil fuel reserves and alternate energy sources
(PB-235348/0) 05 p0040 H75-15179 State of the art and prospects for electric vehicles	05 p0019 175-17000 Future long-range transports - Prospects for
[BLL-OA-TRANS-1250-(6196.3)] 06 p0074 N75-16712 The multirim superflywheel	improved fuel efficiency [ATAM PAPER 75-316] 06 p0047 A75-22514
[AD-A001081] 06 p0085 H75-18594 Large diameter 300 PSI gasifier. Preliminary	Advanced subsonic transports - A challenge for the 1990's
engineering report. Volume 1: Description [PB-238360/2] 06 p0105 N75-20889 Problems of the future and potentialities of	[AIAA PAPER 75-304] 06 p0049 A75-23251 The future of silicon solar cells for terrestrial use
system engineering metallic materials, plastics, traffic and energy supplies	06 p0058 A75-27717 On the future of jet propulsion in subsonic
[ESRO-TT-110] 06 p0107 M75-21218 The development of a solar residential heating and	transport aviation 06 p0058 175-27777
cooling system [NASA-CR-142728] 07 p0140 B75-24107 vulnerability of natural gas systems	Energy supply and demand challenges and some possible solutions 06 p0059 A75-27779
industrial management and operations [AD-A007583] 07 p0144 N75-24143	The outlook for fusion energy sources - Remaining technological hurdles
Long term power system dynamics. Volume 1: Summary and technical report	06 p0059 A75-27782 New technology challenges in exploration,
[PB-240799/7] 07 p0161 B75-27573 SYSTEMS MANAGEMENT	exploitation and environmental impact of geothermal systems
Management of power plant waste heat in cold regions [AD-A003217] 06 p0104 H75-20881	06 p0060 A75-27788 Prospects of photosynthetic energy production 06 p0060 A75-27792
Ţ	Geothermal energy technology assessment 06 p0060 A75-27826
TABLES (Dara) Puel and energy data: United States by states and	Pundamental research on the selection of new electrochemical generators of medium power
regions, 1972 [PB-236581/5] 06 p0077 %75-17000 A study of technological improvements in	06 p0060 A75-27827 Solar energy in earth processes review 06 p0061 A75-28437
automobile fuel consumption. Volume 3A: Appendixes 1 - 111	Energy: A plan for action Book 07 p0110 A75-30375
[PB-238695/1] 07 p0133 H75-22483 TANK GROMETRY	Energy's hazy future electric generating capacity scenarios and forecasts
Study of the influence of container désign and the thermal inertness of solar water heaters on	07 p0110 A75-31195 A commentary on solar energy
their efficiency 07 p0119 A75-36018 Investigation of the effect of boiler design and	07 p0116 A75-34532 Puels, minerals, and human survival Book 07 p0117 A75-34850
finite thermal response of solar water heaters on efficiency	DFVLR activities in the area of energy research 07 p0118 A75-35096
08 p0170 A75-41541	Laser energy conversion 07 p0125 A75-38474
On the potentialities of polyphonylene oxide (PPO) as a wet-insulation material for cargo tanks of	Prospects for electrolytic hydrogen for chemical/industrial plants
[REPT-194-H] 05 p0035 H75-14002	08 p0168 A75-40179 Future hydrogen fueled commercial transports (SAE PAPER 750615) 08 p0169 A75-40521

Energy survey - What can R&D do by 1985 --- fossil 08 p0169 A75-40617 Sunlight to electricity: Prospects for solar energy conversion by photovoltaics --- Book 08 p0170 A75-41608 Will hydrogen transmission replace electricity
08 p0172 A75-42281 Aviation usage of liquid hydrogen fuel - Prospects and problems 08 p0172 A75-42282 Cryogenic H2 and national energy needs 08 p0 173 A75-43977 Hydrogen as an energy carrier --- feasibility analysis 08 p0178 A75-44796 Puture United States demand patterns and the use of hydrogen 08 p0179 A75-44806 Social and environmental context of the hydrogen 08 p0179 A75-44807 How might the hydrogen economy affect our resources and environment 08 p0179 A75-44809 Hydrogen - Mechanisms and strategies of market penetration 08 p0180 A75-44811 Technical problems facing the hydrogen economy 08 p0180 A75-44812 An engineering assessment of the hydrogen economy
08 p0180 A75-44814 Ultimate energy, the ultimate fuel, and the hydrogen link in the electrical energy system 08 p0180 A75-44815 Propulsion technology needs for advanced space transportation systems
[AIAA PAPER 75-1246] LAIAA PAPER 75-1246] 08 p0182 A75-45656
The satellite solar power station - A step toward
the industrial use of space
[IAF PAPER 75-002] [IAP PAPER 75-003] 08 p0183 A75-45903 Continuous duty solar energy system concepts 08 p0190 A75-45993 Liquid hydrogen - Puture aircraft fuel: Background, payoff, and cryogenic engineering challenge 08 p0195 A75-47081 Liquid hydrogen - Fuel of the future -- .for aircraft [SAME PAPER 1065] 08 p0195 A75-47495 The HASA-Lewis/EBDA Solar Heating and Cooling Technology Program 08 p0197 A75-47803 Nuclear power growth, 1974 - 2000 --- forecasting future reactor technology [WASH-1139-74] 05 p0031 N75-12723 Dependence of the United States on essential imported materials, year 2000; volume 1 06 p0096 B75-20157 [AD-A000842] Dependence of the United States on imported materials, year 2000. essential Volume 2: Appendices. [AD-A000843] 06 p0096 N75-20158 Impact of future use of electric cars in the los Angeles region. Volume 2: Task reports on electric car characterization and baseline projections [PB-238878/3] 07 p0131 H75-22200 Impact of future use of electric cars in the Los Angeles region. Volume 3: Task reports on impact and usage analysis
[PB-238879/1] 07 p0131 B75-222
TECHROLOGY ASSESSERT 07 p0131 N75-22201 Combustion dynamics research for 'Project Independence [AIAA PAPER 74-1069] 05 p0001 A75-10262 Intersociety Energy Conversion Engineering Conference, 9th, San Francisco, Calif., August 26-30, 1974, Proceedings 05 p0001 A75-10476 RTG technology development - Where we are/where we are going radioisotope thermoelectric generator 05 p0002 A75-10496 Economics analyses of solar energy utilization 05 p0004 A75-10520 Status of JPL solar powered experiments for terrestrial applications 05 p0005 A75-10530

A review of thermal battery technology 05 p0007 A75-10557 Advanced betavoltaic power sources 05 p0007 A75-10563 Energy crisis - Fact or fiction 05 p0011 A75-12115 Energy development; Proceedings of the Energy Sources Conference, Anaheim, Calif., July 14-19, 05 p0012 A75-12986 Progress in coal gasification 05 p0013 A75-12993 Pusion power research - Where do we stand 05 p0013 A75-12995 Space power systems - Retrospect and prospect
[IAP PAPER 74-082] 05 p0014 a75-13714 Recent advances in components of space power systems
[IAF PAPER 74-083] 05 p0014 A75-13715 Advances in space power generation [IAP PAPER 74-086] 05 p0015 A75-13718 Rating aircraft on energy 05 p0015 A75-14346 Progress in development of auxiliary BHD power plant components at Avco Everett Research Laboratory, Inc
[ASME PAPER 74-WA/ENER-6] 05 p0016 A75-16838 The energy perspective --- world fossil fuel reserves and alternate energy sources 05 p0019 A75-17000 Pusion power - Prospects and impact 05 p0021 A75-18080 Air transportation energy consumption - Yesterday, today, and tomorrow [AIAA PAPER 75-319] [AIAA PAPER 75-319] 06 p0047 A75-22515 Some LNG vehicle developments --- for automotive conversion systems and fueling stations 06 p0048 A75-23236 Stirling engines - Capabilities and prospects 06 p0048 A75-23237 Report on photovoltaics research and technology in the United States 06 p0051 A75-24214 Historic development of photovoltaic power generation 06 p0051 A75-24215 Latest developments of the circular solar array
--- with deployment structure for central antenna communication satellite 06 p0053 A75-24246 Review of central power magnetohydrodynamics
[AIAA PAPER 75-264] 06 p0055 A75-29
Lighter than air - A look at the past, a look at 06 p0055 A75-25005 the possibilities 06 p0056 A75-25995 Status of the NASA-Lewis flat-plate collector tests with a solar simulator 06 p0058 A75-27533 Solar cells - Present state and perspectives on terrestrial applications 06 p0058 A75-27716 Thermoelectric generators --- using semiconductor thermocouples 06 p0058 A75-27718 Coal gasification - A review of status and technology 06 p0059 A75-27781 Solar heating and cooling of buildings 06 p0059 A75-27783 Solar energy for earth: An AIAA assessment --- Book 07 p0110 A75-31267 Photovoltaic power --- solar energy for terrestrial applications 07 p0111 A75-31271 Fuel production /biomass energy/ --- by fuel plantation development Solar production of electrical energy 07 p0112 A75-31588 07 p0111 A75-31275 Laser thermonuclear fusion 07 p0112 A75-32617
Energy sources for ocean technology --- for - for unmanned surface stations and manned underwater stations 07 p0114 A75-33118 Solar heating and cooling of buildings using heat pumps /Brief survey/ 07 p0116 A75-34321

Economic and technical aspects of wind generation systems	MEGASTAR: The Meaning of Energy Growth: An Assessment of Systems, Technologies, and
07 p0116 A75-34533 Recuperator development trends for future high	Requirements [MASA-CR-120355] 05 p0023 M75-10584
temperature gas turbines heat exchanger design	[NASA-CR-120355] 05 p0023 N75-10584 Bow spacecraft are fueled technology of
[ASHE PAPER 75-GT-50] 07 p0116 A75-34607	fueling spacecraft for flight
Alternative fuels for aviation 07 p0121 A75-36719	[JPRS-63514] 05 p0027 M75-10983 Utilization of solar energy an assessment of
Energy and Resources - A plan is outlined	present technology
according to which solar and wind energy would	[NASA-TT-F-16090] 05 p0033 N75-13382
supply Denmark's needs by the year 2050 solar and wind power utilization for Denmark	A review of the status of MHD power generation technology including suggestions for a Canadian
07 p0124 A75-37846	MED research program
Storing electrical energy on a large scale	[UTIAS-39] 05 p0035 N75-13641
08 p0165 A75-38864 Generation of power from the wind windmill	Solar energy [NASA-TT-F-16092] 05 p0038 N75-15149
electric generators	Assessment of the technology required to develop
08 p0167 A75-39365 Shale from oil shale economically 08 p0168 A75-40182	photovoltaic power system for large scale national energy applications [NSF/RM/N-74-072] 06 p0080 N75-17785
Solar climate control - Evaluating the commercial	[HSF/RA/H-74-072] 06 p0080 H75-17785 Energy systems analysis and technology assessment
possibilities	program
08 p0168 A75-40297 Solar energy powered systems - Eistory and current	[BNL-18984] 06 p0094 B75-19831 Energy utilization by households and technology
status	assessment as a way to increase its effectiveness
08 p0168 A75~40298	management methods and family decision making
Use of solar heat rumps for heating and air conditioning - A brief survey	06 p0097 N75-20829 DOT/NASA comparative assessment of Brayton engines
08 p0170 A75-41534	for guideway vehicles and busses. Volume 2:
Research opportunities in cryogenic	Analysis and results
hydrogen-energy systems 08 p0171 A75-42280	[NASA-SP-354-VOL-2] 07 p0133 N75-22745 Technology assessment of portable energy RDT and
A technology assessment of the hydrogen economy	P, phase 1
concept . 08 p0172 A75-42286	[MASA-CR-137654] 07 p0134 B75-22901 Technology assessment of portable energy RDT and
Getting at the big facts in transportation	P, phase 1
private and public transit efficiencies	[NASA-CR-137653] 07 p0134 N75-22902
08 p0173 A75-42973 Photolysis of water as a solar energy conversion	A preliminary technology assessment of ocean thermal gradient energy generation
process - An assessment	[PB-238646/4] 07 p0144 B75-24147
08 p0176 A75-44766 An analysis of hydrogen production via	Technology assessment of portable energy RDT and P [NASA-CR-137655] 07 p0160 N75-27565
closed-cycle schemes thermochemical	Process and environmental technology for producing
processings from water	SNG and liquid fuels
08 p0176 A75-44771 Utilization of hydrogen as an appliance fuel	[PB-242774/8] 08 p0212 H75-33491 TECHBOLOGY TRANSPER
08 p0178 A75-44794	Nuclear propulsion technology transfer to energy
Hydrogen-energy storage for electrical utility systems	systems [AIAA PAPER 74-1072] 05 p0001 A75-10264
08 p0178 A75-44798	The application of aerospace technology in the
An engineering assessment of the hydrogen economy 08 p0180 A75-44814	cryogenics field 06 p0048 A75-23239
Solar energy - An overview	Solar cells - Present state and perspectives on
08 p0181 A75-45508 Solar-energy conversion at high solar intensities	terrestrial applications 06 p0058 A75-27716
08 p0181 A75-45514	Application of rocket engine technology to energy
MHD electrical power generation from fossil fuels	08 p0185 A75-45933
[AIAA PAPER 75-1236] 08 p0182 A75-45648 Application of nuclear rocket technology to light	Technology and community development materials processing, and electrical and nuclear technology
weight nuclear propulsion and commercial nuclear	technical research center of Finland
process heat systems	05 p0031 N75-12695
[AIAA PAPER 75-1261] 08 p0182 A75-45661 Report on studies of space to earth microwave	Lead accumulator batteries in telecommunications [BLL-TRANS-2943-(9022.81)] 06 p0074 N75-16967
power transmission systems	Proceedings of the first 1974 Technology Transfer
[IAF PAPER 75-005] 08 p0183 A75-45814 Energy 10: Annual Intersociety Energy Conversion	Conference [NASA-CR-142119] 06 p0078 N75-17188
and Engineering Conference, 10th, University of	Technology application at Rockwell International
Delaware, Newark, Del., August 18-22, 1975, Record	06 p0078 N75-17189
08 p0183 A75-45920 Solid polymer electrolysis fuel cell status report 08 p0186 A75-45942	The Environmental protection agency industrial technology transfer program 06 p0078 N75-17193
The growth of thermionic energy conversion	Transfer of space technology to industry
08 p0187 A75-45954 Ground based solar energy technology advances 08 p0190 A75-45984	06 p0078 N75-17195 Applications of aerospace technology in the
Solar sea power plants /SSPP/ using ocean	electric power industry 06 p0079 #75-17197
thermal gradients 08 p0191 A75-45996	The initiatives of the Los Alamos Scientific
SBPS solar array design and technology evaluation	Laboratory in the transfer of a new excavation technology
08 p0192 A75-46016	06 p0079 H75-17203
Orbital solar energy technology advances 08 p0192 A75-46018	Beconomic modeling and energy policy planning technology transfer, market research
Bydrogen production by electrolysis - Present and	06 p0079 N75-17210
future 08 p0193 175-46022	TECHBOLOGY UTILIZATION Two-watt radioisotope power generators for
A technology assessment of the hydrogen economy	underwater applications
concept	05 p0007 A75-10556

08 p0194 A75-46037

SUBJECT INDEX TEMPERATURE GRADIENTS

9m24	Dregondings of the first 1076 Beekseless Massets
Applications of plasma core reactors to terrestrial energy systems	Proceedings of the first 1974 Technology Transfer Conference
[AIAA PAPER 74-1074] 05 p0010 A75-11281	[HASA-CR-142119] 06 p0078 H75-17188
Mission applications of electric propulsion	Energy recovery from solid waste production
[AIAA PAPER 74-1085] 05 p0010 A75-11284	engineering model
Solar energy: Technology and applications Book	06 p0079 #75~17200
O5 p0012 A75-12425	The initiatives of the Los Alamos Scientific Laboratory in the transfer of a new excavation
Prospects and scientific problems of the utilization of methods of direct electric power	technology
generation from chemical fuels /fuel cells/	06 p0079 #75-17203
05 p0012 A75-12911	Combining total energy and energy industrial
Utilization of solar energy today	center concepts to increase utilization
05 p0012 175-12987	efficiency of geothermal energy
The heat pipe - Its development, and its aerospace	06 p0102 N75-20860 Cooperative efforts by industry and government to
applications 05 p0015 A75-15054	develop geothermal resources
New applications for optical components - High	06 p0102 H75~20861
energy focusing	"utting the sun to work: A history and directory
05 p0015 A75-16525	of currently available solar energy applications
Coal gasification by Atomics International's	[PB-238189/5] 07 p0129 N75-21810
Rockgas process [ASME PAPER 74-WA/PWR-11] 05 p0018 A75-16883	Insufficient utilization of scientific advances sociopolitical and economic management of
A case study - Utilization of solar energy in	technological development
residential dwellings	07 p0137 N75-23365
[ASME PAPER 74-WA/SOL-2] 05 p0018 A75-16885	Science and Technology Applications Act of 1974
Energy. Volume 1 - Demands, resources, impact,	energy sources and environment protection
technology, and policy Book	[GPO-41-407] 08 p0209 N75-31961
06 p0045 A75-20066	TELECOMMUNICATION
Progress in heat pipe and porous heat exchanger technology	Low-power turbines using organic vapor 07 p0110 A75~30892
06 p0045 A75-20686	Lead accumulator batteries in telecommunications
Liquid hydrogen, liquefaction, storage,	[BLL-TRAMS-2943-(9022.81)] 06 p0074 N75-16967
transportation, applications	TEMPERATURE CONTROL
06 p0046 A75-22043	A design parameter for assessing wicking
Technology utilization - Incentives and solar energy	capabilities of heat pipes [AIAA PAPER 74-1266] 05 p0010 A75-11107
06 p0048 A75-22913 Solar generators for terrestrial applications	[AIAA PAPER 74-1266] 05 p0010 A75-11107 The heat pipe - Its development, and its aerospace
06 p0054 A75-24257	applications
Current worldwide utilization and ultimate	05 p0015 A75-15054
potential of geothermal energy systems	An analysis of photovoltaic power generation and
06 p0060 A75-27787	thermal control interfaces for solar arrays
The adaptation of free space power transmission	06 p0053 A75-24243 Heat pipe thermal control set point shift
technology to the SSPS concept Satellite Solar Power Stations	07 p0115 A75-33271
[AIAA PAPER 75-642] 06 p0063 A75-28602	Heat pipe applications development in Europe
Optical interfaces in solar energy utilization	08 p0195 A75-46043
07 p0123 A75-37331	Study of active cooling for supersonic transports
Cryogenic Engineering Conference, Georgia	[NASA-CR-132573] 06 p0079 N75-17336
Institute of Technology, Atlanta, Ga., August	TREPERATURE DISTRIBUTION Determination of the temperature field in a
8-10, 1973, Proceedings 08 p0173 A75-43976	tubular thermoelectric module
Hydrogen as energy storage element in	05 p0020 A75-17068
windpower systems	Approximate analysis of the steady temperature
08 p0176 A75-44772	field of a parallelepiped with a local energy
Laser application of heat pipe technology in	Source 07 n0112 175-32212
energy related programs 08 p0195 A75-46044	07 p0112 A75-32212 Thermokinetics of a flat solar collector of
Application of heat pipes to solar collectors	constant heat capacity
08 p0195 A75-46045	08 p0171 A75-41768
Advanced nuclear research	Sizing of focused solar collector fields with
[GPO-41-253] 05 p0026 N75-10764	specified collector tube inlet temperature
Application of technology from the Rover program and related developments to energy needs	Rankine cycle [SLA-74-5288] 06 p0094 H75-19832
(LA-5558) 05 p0028 H75-11468	TEMPERATURE EFFECTS
Applications of fusion power technology to the	Dependence of the basic parameters of
chemical industry	Al/x/Ga/1-x/As-GaAs solar converters on
[BHL-18815] 05 p0029 N75-11730	temperature and optical intensity
A survey of LNG technological needs in the USA:	Temperature effects in Schottky-barrier silicon
1974 to beyond 2000 05 p0030 N75-12435	solar cells
Survey of applications of fusion power technology	07 p0115 A75-34175
to the chemical and material processing industry	Temperature dependence of the spectral
[BNL-18866] 05 p0031 N75-12443	characteristics of quick-response silicon
Japanese/United States Symposium on Solar Energy	photocelis
systems. Volume 1: Summary of proceedings [MTR-6284-VOL-1] 05 p0036 M75-14264	07 p0119 A75-36013 Electrodes for thermionic energy conversion
Beneficial uses of waste heat	08 p0188 A75-45957
[RT/PROT- (74) 10] 06 p0068 N75-16091	The practical lithium/poly-carbonmonofluoride
Energy conversion from coal utilizing CPU-400	battery system
technology	08 p0188 175-45964
[PB-235817/4] 06 p0068 H75-16093	Hydrogen production by water electrolysis -
Air conditioning of office buildings with all-electric supply. Part 1: Technical	Hethods for approaching ideal efficiencies 08 p0193 A75-46023
conception .	TEMPERATURE GRADIENTS
[OA-TRANS-938-PT-1] 06 p0074 N75-16970	Hot side heat exchanger for an ocean thermal
Review of thermal battery technology	difference power plant
[SLA-74-5381] 06 p0076 N75-16989	05 p0004 A75-10527
	A heat pump powered by natural thermal gradients 05 p0006 A75-10550
	05 poece 2.5 10550

TEMPERATURE MEASUREMENT SUBJECT INDEX

	•
Ocean thermal gradient hydraulic power plant 07 p0124 A75-37849	THERNAL CONTROL CONTINGS Solar characteristics of new absorptive coatings
Foam solar sea power plant	used on solar collectors
07 p0124 A75-37850 Solar sea power plants /SSPP/ using ocean	07 p0117 A75-34934 Solar-energy materials preparation techniques
thermal gradients 08 p0191 a75-45996	08 p0181 A75-45513 Solar electric propulsion system thermal analysis
Axial temperature differential analysis of linear focused collectors for solar power	including heat pipes and multilayer insulation [MASA-CR-120770] 07 p0147 M75-24842
[SLA-74-5078] 05 p0036 H75-14268	THERMAL DEGRADATION
TEMPERATURE MEASUREMENT	Silicon solar cells for highly concentrated sunlight
Theoretical determination of the temperature in a	07 p0120 A75-36363
solar water heater /steady state/ 07 p0112 175-31513	Pyrolysis system evaluation study [BASA-CR-141664] 06 p0086 B75-18722
Investigation of the electrical and temperature	Energy recovery from solid waste. Volume 2:
characteristics of a silicon photoelectric	Technical report pyrolysis and biodegradation
converter under natural conditions	[NASA-CR-2526] 07 p0148 H75-25292
07 p0116 A75-34314	THERMAL DISSOCIATION
Computation of water temperature at the mouth of a	Thermolysis of water for the generation of hydrogen
geothermal well	06 p0049 A75-23504
08 p0170 A75-41547	THERNAL BHERGY
TRUPERATURE BRASURING INSTRUMENTS	Solar farms utilizing low-pressure closed-cycle
Methodical approach to temperature and pressure measurements for in situ energy-recovery processes	gas turbines 05 p0003 175-10514
[UCID-16631] 06 p0097 N75-20693	Metal hydrides for thermal energy storage
TEMPERATURE PROFILES	05 p0004 A75-10522
Thermal performance characteristics of heat pipes	Thermal energy storage devices suitable for solar
06 p0046 A75-21465	heating
TEMPERATURE SENSORS	05 p0007 A75-10553
Temperature sensor for photoelectric energy converters	The Harwell thermo-mechanical generator 05 p0009 A75-10579
06 p0057 A75-26712	Performance of the thermal trap solar collector
Photoelectric energy converter temperature sensor	[ASME PAPER 74-WA/SOL-5] 05 p0019 A75-16888
. 07 p0122, A75-37163	Theory of heat extraction from fractured hot dry
TERMINOLOGY	rock
Various research tasks related to energy	06 p0057 A75-26544
information and data activities. Task 2 national energy indexing schemes:	Roles for solar thermal conversion systems in our energy economy
Characterization of problem	06 p0059 A75-27784
[PB-240423/4] 07 p0152 H75-25774	Current worldwide utilization and ultimate
TEST PACILITIES	potential of geothermal energy systems
Recent BHD generator testing at Avco Everett	06 p0060 A75-27787
Research Laboratory, Inc	Wew technology challenges in exploration,
[ASME PAPER 74-WA/ENER-7] 05 p0016 A75-16839 TETHERED BALLOOMS	exploitation and environmental impact of geothermal systems
Airborne windmills - Energy source for	06 p0060 A75-27788
communication aerostats	Ocean thermal power and windpower systems -
[AIAA PAPER 75-923] 08 p0165 A75-38868	Matural solar energy conversion for near-term
TEXAS	impact on world energy markets
Evaluation of the suitability of Skylab data for the purpose of petroleum exploration	06 p0060 A75-27790 Thermal power plants German book
[E75-10257] 07 p0147 N75-25237	06 p0064 A75-28962
THERMAL ABSORPTION	Ocean thermal energy conversion system evaluation
Solar thermal absorption heat pump breakeven	[AIAA PAPER 75-616] 06 p0064 A75-29115
coefficient of performance	Tropical ocean thermal power plants and potential
[ASME PAPER 74-WA/ENER-2] 05 p0015 A75-16834 Moderately concentrating flat-plate solar energy	products [AIAA PAPER 75-617] 06 p0064 A75-29116
collectors	[AIAA PAPER 75-617] 06 p0064 A75-29116 Solar thermal conversion mission analysis
[ASHE PAPER 75-HT-54] 08 p0 196 A75-47526	[AIAA PAPER 75-619] 06 p0064 A75-29117
THERMAL BATTERIES	A new concept for solar energy thermal conversion
A review of thermal battery technology	07 p0110 A75-30368
05 p0007 A75-10557 Development and performance of a miniature,	Ocean thermal energy conversion
high-voltage thermal battery	07 p0111 A75-31274 Approximate analysis of the steady temperature
05 p0007 A75-10559	field of a parallelepiped with a local energy
Development of a thermal battery for emergency	source
radio power under arctic conditions	07 p0112 a75-32212
05 p0007 A75-10560	Survey on power fluid for thermal power from low
Corrosion and related problems in high-temperature cells	temperature and small temperature difference heat source
06 p0055 A75-24377	07 p0119 A75-36173
Development and performance of a miniature,	Problems of direct conversion of thermal and
high-voltage thermal battery	nuclear energy to electric energy
[SLA-74-5363] 06 p0076 H75-16988	07 p0120 A75-36415
Review of thermal battery technology [SLA-74-5381] 06 p0076 H75-16989	Ocean thermal gradient hydraulic power plant
[SLA-74-5381] 06 p0076 B75-16989 Pellet type thermal battery	07 p0124 A75-37849 Thick semiconductor films for photothermal solar
[SAND-74-0007] 06 p0076 N75-16991	energy conversion
Sixty minute thermal battery: A feasibility study	08 p0165 A75-38956
[SLA-73-5888] 06 p0077 N75-16994	The utilization of ocean energy for electrical
THERMAL COMPORT Solar heat pump comfort heating systems	energy generation
08 p0185 A75-45936	08 p0168 A75-40181 Sea thermal power as a hydrogen and methanol
THERMAL COMDUCTIVITY	generator
Transverse header beat pipe	08 p0175 A75-44763
[AIAA PAPER 75-656] 07 p0114 A75-32914	Application of fuel cells with heat recovery for
Heat pipe thermal control set point shift 07 p0115 A75-33271	integrated utility systems 08 p0187 A75-45949
v. p. 1.2 33211	00 polo: 4/3-43943

SUBJECT INDEX THERMODIBANIC CICLES

Thermal power conversion systems for fusion plants 08 p0187 A75-45953

Heat pipe thermal recovery units --- for process exhaust energy utilization The BRDA thermionic program --- for nuclear propulsion and utility power plants 08 p0187 A75-45955
WASA thermionic converter research and technology program --- nuclear electric propulsion application 08 p0194 A75-46041 Research applied to solar-thermal rower systems: Chemical wapor deposition research for 08 p0188 A75-45956 fabrication of solar energy convertors Blectrodes for thermionic energy conversion [PB-234565/0] 05 p0041 N75-15186 08 p0188 A75-45957 Geothermal energy: A new application of rock Collector work function improvements and the development of low temperature thermionic mechanics [LA-UR-74-821] 06 p0068 N75-16089 Evaluation of thermal methods for recovery of 08 p0188 A75-45960 Topping cycle applications of thermionic conversion 08 p0188 A75-45972 viscous oils in Missouri and Kansas [PB-237831/3] 06 06 p0090 N75-18762 [PB-242151/9] OR p0213 N75-3350 An evaluation of oceanographic and socioecononic Thermionic topping of electric power plants
08 p0189 A75-45973 08 p0213 N75-33502 Reflector-absorber systems for solar thermionic aspects of a nearshore ocean thermal energy conversion pilot plant in subtropical Hawaiian converters [ESRO-TT-123] 06 p0104 N75-20878 Rlectric power generation system directory from waters [PB-242167/5]
THERNAL PATIGUE laser power [NASA-CASE-NPO-13308-1] 08 p0213 N75-33509 08 p0204 N75-30524 Investigations and selection of components and THERMIONIC BUITTERS materials for flexible solar generator Blectrodes for thermionic energy conversion 08 p0188 A75-45957 06 p0050 A75-24182 THEREAL INSULATION THRRMIONIC POWER GENERATION Design study of the energy characteristics of thermionic electric power generating components Beat mirrors for solar-energy collection and radiation insulation 05 p0004 A75-10525 and assemblies On the potentialities of polyphenylene oxide (PPO) as a vet-insulation material for cargo tanks of 06 p0064 A75-28893 The growth of thermionic energy conversion 08 p0187 A75-45954 LNG-carriers [MEPT-194-H] 05 p0035 N75-14002 Project conserve, a pilot project in homeowner energy conservation [PB-240407/7] 07 n0161 N75-07577 The ERDA thermionic program --- for nuclear propulsion and utility power plants 08 p0187 A75-45955 NASA thermionic converter research and technology program --- nuclear electric propulsion application THERMAL HAPPING The detection of geothermal areas from Skylab 08 p0188 A75-45956 thermal data [NASA-CR-143133]
THERMAL POLLUTION Results of work on thermoemission conversion
[AD-A002655] 07 p0131 N75-22114 07 p0158 N75-27540 Environmental impact of a geothermal power plant 06 p0049 A75-23291 THERMISTORS Temperature sensor for photoelectric energy Beneficial uses of waste heat [RT/PROT-(74)10]
THERMAL RADIATION converters 06 p0068 N75-16091 06 p0057 A75-26712 Photoelectric energy converter temperature sensor 07 p0122 A75-37163 An analytical and experimental investigation of a laboratory solar pond model
[ASHE PAPER 74-WA/SOL-3] THERMOCHEMICAL PROPERTIES The generation of hydrogen by the thermal decomposition of water 05 p0019 A75-16886 THERMAL BEACTORS Thermal power plants --- German book 05 p0005 A75-10532 06 p0064 A75-28962 THERMOCHEMISTRY Nuclear energy requirements for hydrogen production from water THERMAL RESISTANCE Controlled heat pipes 05 p0012 A75-12912 05 p0005 A75-10533 Efficiencies of electrolytic and thermochemical hydrogen production Determination of the temperature field in a tubular thermoelectric module 06 p0045 A75-20300 05 p0020 A75-17068 Optimization of parameters of permeable thermoelectric generators Energy, hydrogen, and pollution --- energy technology 06 p0046 A75-22041 07 p0110 A75-30487 Designing heat pipe heat sinks [AIAA PAPER 75-724] Massive production of hydrogen by a 07 p0113 A75-32868 thermo-electrochemical method 08 p0172 A75-42531 Analysis of thermochemical water-splitting cycles THERMAL SIMULATION Bodeling of the CSÜ beating/cooling system ---Colorado State University solar house computer --- energy efficiency evaluation
08 p0177 A75-44781
A search for thermochemical water-splitting cycles
--- for energy production simulation 07 p0109 A75-29473 THERMIONIC CATHODES Influence of the geometrical development of the cathode surface on the specific power of a thermionic converter with surface ionization

08 p0173 A75-43860 08 p0177 A75-44782 Pundamental aspects of systems for the thermochemical production of hydrogen from water [LA-UR-74-1459] 07 p0127 M75-21391 THERMIONIC CONVERTERS THER MOCOUPLES -Empirical method of designing the current-voltage characteristics for the discharge mode of a Effect of heat transfer from the lateral surfaces of semiconductor thermocouples on the energy characteristics of a thermoelectric generator 05 p0021 A75-18798 thermionic converter 06 p0057 175-26332
Design study of the energy characteristics of thermionic electric power generating components and assemblies THERMODYNAMIC CYCLES Small coal burning gas turbine for modular integrated utility systems 05 p0006 A75-10546 Solar operation of ammonia-water multistage air 06 p0064 A75-28893 Influence of the geometrical development of the cathode surface on the specific power of a thermionic converter with surface ionization conditioning cycles in the tropics
06 p0048 A75-23021 On the future of jet propulsion in subsonic transport aviation 08 p0173 A75-43860 The growth of thermionic energy conversion 08 p0187 A75-45954 06 p0058 A75-27777

.

·	
Part load specific fuel consumption of gas turbines	THER HODY WANICS
06 p0063 A75-28650 Thermal power plants German book	Thermodynamics of liquid metal HHD converters [AD-A007415] 07 p0144 B75-24141
06 p0064 A75-28962 Development of the KIVA-I MHD open cycle generator	THERMORLASTICITY Thermodynamic considerations of 'solid state
07 p0124 A75-37686 Solar absorption air conditioning alternatives	engines' based on thermoelastic martensitic transformations and the shape memory effect
08 p0167 A75-39410 Solar tower thermo-chemical energy cycles 08 p0171 A75-42277	THERMOELECTRIC COOLING
A search for thermochemical water-splitting cycles for energy production	Convergence and speed of calculations for thermoelectric heat pump
08 p0177 a75-44782 Effectiveness of using chemically reacting working media in a solar gas-turbine installation	05 p0020 A75-17084 Optimization of the operating conditions of a combined generator-cooler thermoelement 07 p0121 A75-37155
08 p0180 A75-45063 Solar residential electrification with high	THERMORLECTRIC GENERATORS RTG technology development - Where we are/where we
performance heat engines [AIAA PAPER 75-1239] 08 p0 182 a75-45651	are going radioisotope thermoelectric generator
Thermionic topping of electric power plants 08 p0189 A75-45973 Comparison and evaluation of nuclear power plant	05 p0002 A75-10496 A modular heat source for curium-244 and plutonium-238
options for geosynchronous power stations Ob p0193 A75-46027 Bigh temperature air preheaters for open cycle MHD	05 p0002 A75-10497 Performance testing of thermoelectric generators at JPL
energy conversion systems [AICHE PAPER 16] 08 p0196 A75-47512	05 p0002 A75-10503 SNAP 19 Wiking RTG flight configuration and
The role of heat transfer in solving geothermal energy problems to accelerate its effective application	integration testing Radioisotope Thermoelectric Generator 05 p0003 A75-10504
[ÅSHE PAPER 75-HT-57] 08 p0196 A75-47527 THERHODYNAMIC EFFICIENCY Prospects for using dynamic thermocompression	Operational testing of the high performance thermoelectric generator /HPG-02/ 05 p0003 A75-10505
converter in solar power plants 05 p0020 A75-17076	1 10% efficient economic RTG design radioisotope thermoelectric generator
Thermodynamic considerations of 'solid state engines' based on thermoelastic martensitic transformations and the shape memory effect	O5 p0003 A75-10506 Cost effective designing for the economic RTG radioisotope thermoelectric generators
06 p0045 A75-19631 Bfficiencies of electrolytic and thermochemical hydrogen production	05 p0003 A75-10507 Light-weight radioisotope thermoelectric generator design
06 p0045 A75-20300 Thermodynamic analysis of a solar energy system with a closed-cycle gas-turbine converter	05 p0003 175-10508 Two-watt radioisotope power generators for underwater applications
06 p0049 A75-23402 Thermodynamics of multistage air-cooled gas turbine	05 p0007 A75-10556 The Harwell thermo-mechanical generator
06 p0050 A75-23817 A generalization of the Carnot theorem - The theorem of useful power	05 p0009 A75-10579 High efficiency thermoelectric generator 05 p0014 A75-13067
06 p0057 A75-26448 Part load specific fuel consumption of gas turbines 06 p0063 A75-28650	Utilization of tubular thermoelectric modules in solar generators 05 p0020 &75-17067
Available energy conversion and utilization in the United States	Determination of the temperature field in a tubular thermoelectric module
[ASME PAPER 74-WA/FWR-1] 08 p0166 A75-39349 Laboratory based activities in solar energy at the National Bureau of Standards	05 p0020 A75-17068 Effect of heat transfer from the lateral surfaces of semiconductor thermocouples on the energy
08 p0168 A75-40299 On methods for the large-scale production of hydrogen from water	characteristics of a thermoelectric generator 05 p0021 A75-18798 RTG electrical power for spacecraft
08 p0176 A75-44773 Engine performance with gasoline and hydrogen - A	Radioisotope Thermoelectric Generators 06 p0057 A75-26067 Thermoelectric generators using semiconductor
comparative study 08 p0177 A75-44787 Optimum properties of working fluids for solar	thermocouples 06 p0058 A75-27718
powered heat pumps 08 p0185 a75-45937	Optimization of parameters of permeable thermoelectric generators
Method of testing for rating solar collectors based on thermal performance flat plate collectors	07 p0110 A75-30487 Optimization of the operating conditions of a combined generator-cooler thermoelement
[COM-75-10276/4] 07 p0150 N75-25321	77 p0121 A75-37155 The selection and use of energy storage for solar
A heat pump powered by natural thermal gradients 05 p0006 A75-10550 Application of thermodynamic and material- and	thermal electric application 08 p0189 A75-45980 Water-splitting system synthesized by
energy-balance calculations to gasification processes 06 p0055 A75-24785	photochemical and thermoelectric utilizations of solar energy 08 p0190 A75-45994
Evaluation of multi-step thermochemical processes . for the production of hydrogen from water 08 p0177 A75-44778	Devices based on thermoelectrical phenomena [AD-783821] 05 p0026 N75-10836
Thermal energy storage solar storage materials performance	Economic radioisotope thermoelectric generator program: Program plan [IESD-3112-3] 05 p0034 N75-13393
08 p0185 A75-45932 Heat Pipe Symposium/Workshop. [PB-236008/9] 05 p0035 N75-14094	Bconomic radioisotope thermoelectric generator study program [IESD-3112-1] 05 p0036 N75-14269
Analytical description of the modern steam automobile	Economic radioisotope thermoelectric generator study program: Appendices.
[NASA-TH-X-72199] 05 p0035 N75-14134	[IESD-3112-2] 05 p0036 N75-14270

SUBJECT INDEX TRIE FILES

·	
Hulti-hundred watt radioisotope thermoelectric	Pusion reactors as future energy sources
génerator program, part 1 ground support equipment and safety management	05 p0011 A75-11735 Pusion power research - Where do we stand
[GESP-7107-PT-1] 06 p0092 N75-19354 Multi-hundred watt radioisotope thermoelectric generator program, part 2 ground support	05 p0013 A75-12995 Current expectations for fusion power from toroidal machines
equipment [GESP-7107-PT-2] 06 p0092 B75-19355	05 p0014 175-12996 Fusion power - Prospects and impact
Heat transfer design and proof tests of a radioisotope thermoelectric generator	05 p0021 A75-18080 An electron beam initiated fusion neutron generator
[AD-A002218] 06 p0092 N75-19608 Manportable thermoelectric generator	06 p0045 A75-19657 Numerical simulation of direct energy conversion
[AD-A002042] 06 p0095 N75-19847 Thermal diagrams of thermoelectrical devices	from fusion reactions 06 p0045 A75-19660
[AD-787420] 07 p0135 H75-22911	Foreseeable thermal, mechanical, and materials engineering problems of fusion reactor power
Solar farms utilizing low-pressure closed-cycle qas turbines	plants [SMRT PAPER A2/1] 06 p0046 A75-21713
05 p0003 A75-10514 Evaluation of central solar tower power plant	Plasma heating methods for controlled fusion 07 p0119 A75-35920
05 p0003 A75-10515 The hot deeps of the Red Sea as a potential heat	Environmental aspects of fusion reactors 08 p0170 A75-41434
source for thermoelectric power generation 05 p0004 A75-10516	Plasma physics and controlled nuclear fusion research 1974; Proceedings of the Fifth
Thin film coatings in solar-thermal power systems 06 p0056 A75-25679	International Conference, Tokyo, Japan, November 11-15, 1974. Volumes 1 & 2
Solar energy for earth: An AIAA assessment Book 07 p0110 A75-31267	08 p0174 A75-44736 Ion-beam implosion of fusion targets
Solar-thermal electric power 07 p0111 A75-31270	08 p0 181 A75-45386 Terrestrial and space applications of the migma
Photovoltaic power solar energy for terrestrial applications	controlled fusion concept [AIAA PAPER 75-1263] 08 p0182 A75-45663
07 p0111 A75-31271 Geosynchronous satellite solar power energy	DCTR power supply and energy storage review meeting [WASH-1310] 05 p0031 N75-12445
transmission to earth 07 p0111 A75-31272	Superconducting magnetic energy storage theta pinch thermonuclear fusion test reactor
Minimum cost solar thermal electric power systems - A dynamic programming based approach	[LA-UR-74-737] 05 p0032 N75-12814 Status and objective of Tokamak systems for fusion
07 p0112 A75-32097 Survey on power fluid for thermal power from low	research 05 p0035 m75-13644
temperature and small temperature difference heat source	New approaches to CTR: General relativistic power plants
07 p0119 A75-36173 Controlling the response of thermoelements that generate electricity	[UCRL-75443] 06 p0073 N75-16362 Steps into the future. Development of the power industry in the USSR
07 p0121 A75-37154 Efficient thermo-mechanical generation of	[BLL-M-2330-(5828.4P)] 06 p0085 N75-18714 Man-made sun. Thermonuclear engineering developments
electricity from the heat of radioisotopes 08 p0192 A75-46013 Devices based on thermoelectrical phenomena	[BLL-M-23333-(5828.4F)] 06 p0091 N75-19014 Proceedings of 5th annual symposium: Energy
[AD-783821] 05 p0026 N75-10836	Research and Development solar energy,
Thermodynamic analysis and parameter optimization of a solar thermoelectric power unit with	windpower utilization, thermonuclear power generation
radiation heat dissipation [AD-A000211] 06 p0082 N75-17819	[AD-A007799] 07 p0144 H75-24142 THERMONUCLEAR REACTIONS
In situ combustion of coal for energy [PB-241892/9] 08 p0211 H75-32603	Thermal power conversion systems for fusion plants 08 p0187 A75-45953
HERHOELECTRICITY Redox thermogalvanic cells for direct energy	THERMOPHYSICAL PROPERTIES Determination of some thermophysical
conversion 08 p0191 A75-45999	characteristics of a solar-type pebble accumulator 07 p0116 A75-34317
Solar collector thermal power system. Volume 1: Preliminary technology systems study	Determination of some thermophysical properties of pebble-type solar heat accumulators
[AD-A000940] 06 p0091 N75-19339 Solar collector thermal power system. Volume 2:	08 p0 170 A75-41530 THETA PINCH
Development, fabrication, and testing of fifteen foot heat pipes	Superconducting magnetic energy storage theta pinch thermonuclear fusion test reactor
[AD-A000941] 06 p0091 N75-19340	[LA-UR-74-737] 05 p0032 N75-12814
Solar collector thermal power system. Volume 3: Basic study and experimental evaluation of thermal train components	Thick semiconductor films for photothermal solar energy conversion
(AD-A000942) 06 p0091 N75-19341	08 p0165 A75-38956
Thermal diagrams of thermoelectrical devices [AD-787420] 07 p0135 N75-22911 BERROUIDEMULICS	THIM FILMS Heat mirrors for solar-energy collection and radiation insulation
Gulf stream based ocean thermal power plants [AIAA PAPER 75-643] 06 p0063 A75-28603	05 p0004 A75-10525 Development of very low cost solar cells for
Theoretical research on the operation of a solar water heater and comparison with experimental data	terrestrial power generation 06 p0052 A75-24226
07 p0 112 A75-31515	Use of flexible reflective surfaces for solar energy concentration
Hovel materials for power systems. Part 3: Selective emitters for energy conversion	06 p0056 A75-25678 Thin film coatings in solar-thermal power systems
[AD-784449] 05 p0026 N75-10608 HERBONUCLEAR POWER GENERATION	06 p0056 A75-25679 Determination of the surface shapes of film-type
Conceptual design of a series of laser-fusion power plants of 100 to 3000 MW/e/	solar energy concentrators with seams 07 p0119 A75-36017
05 p0007 A75-10562	

Calculation of the radiant energy field for a biparaboloidal radiation furnace with a carbon arc	Optimization of fusion power density in the two-energy-component tokamak reactor
08 p0 170 A75-41540 Solar cells for power generation on communication	07 p0124 175-37836 dan-made sun. Thermonuclear engineering
satellites	developments
08 p0174 A75-44005 Solar-energy materials preparation techniques	[BLL-M-23333-(5828.4F)] 06 p0091 m75-19014 Synthetic fuels from fusion reactors
08 p0181 A75-45513 Research on cadmium stannate selective optical	[BHL-19351] 06 p0106 B75-21098 TOROIDAL PLASHAS
films for solar energy applications	Current expectations for fusion power from
[PB-236208/5] 06 p0071 H75-16117 Development of low cost thin film polycrystalline	toroidal machines 05 p0014 175-12996
silicon solar cells for terrestrial applications	Poreseeable thermal, mechanical, and materials
[PB-238505/2] 06 p0105 B75-20890 Symposium on the Material Science Aspects of Thin	engineering problems of fusion reactor power plants
Film Systems for Solar Energy Conversion	[SHRT PAPER A2/1] 06 p0046 A75-21713
[PB-239270/2] 07 p0144 N75-24150	Plasma heating methods for controlled fusion 07 p0119 175-35920
Assessment of uranium and thorium resources in the	TOWERS
United States and the effect of policy alternatives	Evaluation of central solar tower power plant
[PB-238658/9] 07 p0143 N75-24133	07 p0116 A75-34531 Solar tower thermo-chemical energy cycles
THRUST CONTROL Powerplant energy management transport	08 p0171 A75-42277 A tower-top point focus solar energy collector
aircraft engine thrust control	08 p0174 A75-44753
[AIAA PAPER 74-1066] 05 p0001 A75-10259 THRUST VECTOR CONTROL	TOXIC HAZARDS Dimensions/HBS, volume 59, number 2, February 1975
Effect of attitude constraints on solar-electric	energy conservation, safety management,
geocentric transfers [AIAA PAPER 75-350] 06 p0055 A75-24957	toxic hazards [COM-75-50141/02] 07 p0151 H75-25330
Prench activity in electric propulsion	TOXICOLOGY
07 p0 120 A75-36539 Thrust vector control by magnetic field of	Environmental aspects of cadmium sulfide usage in solar energy conversion. Part 1: Toxicological
MHD-generator rocket engine	and environmental health considerations, a
[IAF PAPER 75-027] 08 p0183 A75-45822 TIDE POWERED GENERATORS	bibliography [PB-238285/1] 06 p0105 #75-20884
Tidal power and its integration into the electric	TRACE ELEMENTS
system 05 p0013 A75-12994	Trace elements by instrumental neutron activation analysis for pollution monitoring
The potential of natural energy sources	08 p0166 A75-39335
08 p0165 A75~38865	TRAFFIC Problems of the future and potentialities of
Tidal power and its integration into the electric	system engineering metallic materials,
system 05 p0013 A75-12994	plastics, traffic and energy supplies [ESRO-TT-110] 06 p0107 B75-21218
Optimising pumped storage with tidal power in an	TRAJECTORY OPTIMIZATION
estuary [ASME PAPER 74-WA/PWR-7]	Effect of attitude constraints on solar-electric geocentric transfers
Other primary energy resources geothermal,	[AIAA PAPER 75-350] 06 p0055 A75-24957
tidal, wind, waterwave and glacier energy utilization	TRANSIENT HEATING Dynamic response of solar heat storage systems
06 p0050 A75-23512	[ASME PAPER 74-WA/HT-22] 05 p0018 A75-16867
'Time is energy' /Henson and Stringfellow Memorial	TRANSMISSION LIBES The Electric Power Research Institute's role in
Lecture/ VTOL aircraft developments 07 p0112 175-32324	applying superconductivity to future utility
Controlling the response of thermoelements that	systems 06 p0056 A75-25827
generate electricity 07 p0121 A75-37154	Economic and system aspects of a superconducting magnetic energy storage device and a dc
TIME OPTIMAL CONTROL	superconducting transmission line
Effect of attitude constraints on solar-electric geocentric transfers	[LA-UR-74-1145] 06 p0091 N75-19080 TRANSONIC WIND TUBBELS
TAIAA PAPER 75-350] 06 p0055 A75-24957	A generalised analysis of the performance of a
TIRES An evaluation of discarded tires as a potential	variety of drive systems for high Reynolds number, transonic wind tunnels
source of fuel	[RAE-TR-73134] 06 p0073 #75-16572
05 p0012 A75-12416 An evaluation: The potential of discarded tires	TRANSPARENCE Semi-transparent solar collector window systems
as a source of fuel	08 p0167 A75-39405
[NASA-T#-X-58143] 05 p0038 N75-15153	TRANSPORT AIRCRAFT Powerplant energy management transport
Iron titanium hydride as a source of hydrogen fuel	aircraft engine thrust control
for stationary and automotive applications [BNL-18651] 05 p0030 N75-12441	[AIAA PAPER 74-1066] 05 p0001 A75-10259 Next generation transports will emphasize fuel
PITANIUM OXIDES	savings
Transparent heat-mirror films of TiO2/Ag/TiO2 for solar energy collection and radiation insulation	05 p0011 A75-11426 Fuel outlook dictating technical transport research
05 p0015 A75-16378	05 p0011 A75-11427
TORABLE FUSION REACTORS Pusion power research - Where do we stand	Rating aircraft on energy 05 p0015 175-14346
05 p0013 A75-12995 Poreseeable thermal, mechanical, and materials	Conceptual design of reduced energy transports
engineering problems of fusion reactor power	[AIMA PAPER 75-303] 06 p0047 A75-22508 Puture long-range transports - Prospects for
plants [SMRT PAPER A2/1] 06 p0046 A75-21713	improved fuel efficiency [AIAA PAPER 75-316] 06 p0047 A75-22514
Plasma heating methods for controlled fusion	Advanced subsonic transports - A challenge for the
07 p0119 A75-35920	1990's

SUBJECT INDEX TURBOGENERATORS

Puture hydrogen fueled commercial transports [SAE PAPER 750615] 08 p0169 A75-40 Puel conservation possibilities for terminal area compatible transport aircraft Design of a tubular heat collector for a solar 08 p0169 A75-40521 power installation with a parabolocylindric concentrator 05 p0020 A75-17069 [AIAA PAPER 75-1036] 08 p0171 A75-41698 TUNGSTEN Aviation usage of liquid hydrogen fuel - Prospects Collector work function improvements and the development of low temperature thermionic and problems 08 p0172 A75-42282 converters Weight contribution to fuel conservation for 08 p0188 A75-45960 terminal area compatible aircraft [SAWE PAPER 1091] 08 TUNGSTRN CARBIDES Surface electronic properties and the search for new hydrogen oxidation catalysts 08 p0196 A75-47509 Future long-range transports: improved fuel efficiency [NASA-TH-X-72659] Prospects for 08 p0178 A75-44795 [NASA-TM-X-72659] 06 p0079 N75-17339 Fuel conservation possibilities for terminal area THRING Interferometric tuning of a 15-atm CO2 laser COMPATIBLE AIRCRAFT
[NASA-CR-132608]
TRANSPORT VEHICLES 06 p0058 A75-27518 TUNNELING (EXCAVATION)

Legal economic, and energy considerations in the use of underground space 06 p0091 N75-19224 A comparative analysis of the energy consumption for several urban passenger ground [PB-236755/5] 06 p0080 N75-17749 transportation systems [PB-238041/8] TURBINE BLADES Aluminum nitride and silicon mitride for high-temperature vehicular gas turbine engines 06 p0107 N75-21160 TRANSPORTATION Getting at the big facts in transportation --private and public transit efficiencies 05 p0011 A75-11362 TURBINE ENGINES 08 p0173 A75-42973 Thermal power plants --- German book Guidelines to reduce energy consumption through 06 p0064 A75-28962 transportation actions Survey on power fluid for thermal power from low [PB-235983/4] 06 p0068 N75-16094 Transportation and the new energy policies: Truck sizes and weights non-2 temperature and small temperature difference heat source sizes and weights, part 2 07 p0119 A75-36173 [GPO-29-802] Space power application of the all purpose mini-Brayton rotating unit /mini-BRU/ 06 p0073 N75-16410 Submarine tanker concepts and problems
[COM-75-10009/9] 07 p Transportation energy conservation: A program 08 p0193 A75-46019 Preliminary results of the large experimental wind turbine phase of the national wind energy program
08 p0196 A75-47798 plan of policy-oriented research
[PB-240734/4] 08 p0200 N75-20
Application of fast sparse-matrix techniques and
an energy estimation model for large 08 p0200 N75-28528 Turbine design and application, volume 3 [NASA-SP-290+VOL-3] 07 p01 07 p0147 N75-24741 transporation networks TURBINE PURPS Energy storage undergound --- hydroelectric pumped-storage and combustion turbine facilities 08 p0201 N75-28967 TRANSPORTATION ENERGY 05 p0013 A75-12989 Puel energy systems - Conversion and transport Pumped air storage for electric power generation 05 p0013 A75-12990 efficiencies 05 p0007 A75-10554 Evaluation of the energy perfection of the different forms of transport --- aerodyn TURBOCOMPRESSORS aerodynamic Design and operation of a solar-powered coefficients and lift drag ratio turbocompressor air-conditioning and heating 07 p0137 N75-23392 [AD-A006562] svstem TRAPS 08 p0186 A75-45939 Solar energy trap
[NASA-CASE-MFS-22744-1]
TRAVELING WAVE AMPLIPIERS Peasibility demonstration of a solar powered 05 p0024 N75-10586 turbocompressor air conditioning and heating system Power generation and efficiency in Gals traveling-wave amplifiers [PB-238570/6] 07 p0130 N75-21816 TURBOPAN ENGINES Gas turbine engines - A state-of-the-art review 07 p0110 A75-30750 05 p0009 A75-10840 On the future of jet propulsion in subsonic TREES (PLANTS) Energy plantations: Should we grow trees for power plant fuel?
[VP-X-129] transport aviation Energy plantations: Should we grow trees for power plant fuel [PB-236417/0] 07 n0130 PTE 04-12 06 p0058 A75-27777 Study of the costs and benefits of composite materials in advanced turbofan engines [NASA-CR-134696] 06 p00 06 p0073 N75-16637 Preliminary study of advanced turbofans for low energy consumption The energy plantation 07 p0139 N75-24103 TROPICAL REGIONS [NASA-TH-X-71663] 06 p0084 N75-18241 Solar operation of ammonia-water multistage air TURBOGENERATORS conditioning cycles in the tropics
06 p0048 175-23021 Concepts for central solar electric power generation 05 p0021 A75-17504 Tropical ocean thermal power plants and potential Low-power turbines using organic vapor 07 p0110 A75-30892 products
[AIAA PAPER 75-617] 06 p0064 A75-29116 Wind power --- electricity generation 07 p0111 A75-31273 Thermionic topping of electric power plants TRUCKS Independent truckers and the energy crisis toru-31-412] 05 p0023 N75-10581 Transportation and the new energy policies: Truck sizes and weights, part 2 [GPO-29-8021 08 p0189 A75-45973 Solar-heated-air turbine generating systems 08 p0190 A75-45981 06 p0073 N75-16410 The design of a solar cavity steam generator for [GPO-29-802] Study of potential for motor vehicle fuel economy improvement. Truck and bus panel report no. 7 [PB-241777/2] 08 p0212 E75-33 electrical power generation 08 p0190 A75-45982 08 p0212 N75-33411 Geothermal power station --- using heat pipes
[AD-785948] 05 p0037 H75-14275 TUBE HEAT EXCHANGERS The analysis of the performance of a pancake absorber-heat exchanger for a solar concentrator [ASME PAPER 74-WA/SOL-1] 05 p0018 A75-16884 Blectric power generation utilizing a heat pipe turbine-qenerator 07 p0139 N75-24096 Variations in heat exchanger design for ocean thermal difference power plants [PB-238572/2] 07 p0143 N7: Utilization of tubular thermoelectric modules in solar generators 05 p0020 A75-17067 07 p0143 N75-24134

•	·
The 100 kW experimental wind turbine generator	Fuel and energy data: United States by states and
project [NASA-TH-X-71758] 08 p0202 N75-29546	regions, 1972
[NASA-TM-X-71758] 08 p0202 N75-29546 Solar 10 kW turboalternator silent power program	[PB-236581/5] 06 p0077 H75-17004 The reserve base of bituminous coal and anthracite
[AD-A006549] 08 p0203 N75-29555	for underground mining in the Eastern United
TURBOJET ENGINES	States 06 m0005 m75 10747
Availability and propulsion fuel combustion energy calculations for turbojet	[PB-237815/6] 06 p0085 #75-18713 The USA: The scientific and technical revolution
08 p0195 A75-46548	and trends in foreign policy
TURBOPROP ENGINES	[NASA-TT-F-16102] 06 p0096 N75-20160
Gas turbine engines - A state-of-the-art review 05 p0009 A75-10840	World oil developments and US oil import policies [GPO-22-893] 07 p0148 #75-25294
Preliminary study of advanced turboprops for low	US energy and fuel demand to 1985, a composite
energy consumption	projection by user within Petroleum
[NASA-TM-X-71740] 07 p0146 N75-24739 TURBOSHAFTS	Administration for Defense (PAD) districts [PB-239343/7] 07 p0151 E75-25322
Gas turbine engines - A state-of-the-art review	Scientific research in power engineering
05 p0009 A75-10840	[JPRS-65422] 08 p0205 N75-30648
TURBULENCE EFFECTS The effect of atmospheric turbulence or windrill	Solar Energy Research, Development, and
The effect of atmospheric turbulence on windmill performance	Demonstration Act of 1974 [GPO-39-827] 08 p0207 N75-31567
08 p0174 A75-44756	Project Independence report: A review of US
TWO PHASE PLOW	energy needs up to 1985
Investigations of the factors affecting the performance of a rotating heat pipe	[PB-242142/8] 08 p0213 N75-33506 UNIVERSITIES
07 p0120 A75+36357	Proceedings of the 2nd Annual Illinois Energy
	Conference
U	[PB-240548/8] 07 p0161 N75-27575 URANIUM
U.S.S.R.	Assessment of uranium and thorium resources in the
Energy from the earth's depths	United States and the effect of policy
[BLL-M-23516-(5828.4F)] 06 p0074 N75-16968 Exploration of Antarctica: Past and present	alternatives
[BLL-M-23343-(5828.4F)] 06 p0080 N75-17722	[PB-238658/9] 07 p0143 N75-24133 Uranium resources to meet long term uranium
Steps into the future. Development of the power	requirements
industry in the USSR	[PB-239515/0] 08 p0199 N75-28508
[BLL-M-23330-(5828.4F)] 06 p0085 N75-18714 Soviet energy potential	The UF6 Breeder - A solution to the problems of
[BLL-M-23413-(5828.4F)] 08 p0199 N75-28516	nuclear power
Scientific research in power engineering	08 p0187 A75-45951
[JPRS-65422] 08 p0205 N75-30648 UNDERGROUND EXPLOSIONS	URABIUM PLASMAS Applications of plasma core reactors to
Stimulation and reservoir engineering of	terrestrial energy systems
geothermal resources	[AIAA PAPER 74-1074] 05 p0010 A75-11281
[PB-239718/0] 07 p0153 N75-26485	Physics and potentials of fissioning plasmas for space power and propulsion
Energy storage undergound hydroelectric	[IAF PAPER 74-087] 05 p0015 A75-13719
pumped-storage and combustion turbine facilities	URBAN DEVELOPMENT
05 p0013 A75-12989 Underground storage of heat in solar heating systems	Energy from urban wastes 05 p0006 A75-10548
07 p0115 A75-33975	URBAN PLANNING
Legal economic, and energy considerations in the	The Solar Community - Energy for residential
use of underground space [PB-236755/5] 06 p0080 #75-17749	heating, cooling, and electrical power 06 p0059 A75-27785
Erecting gas storage facilities and oil centers	URBAN TRANSPORTATION
[AD-A006559] 07 p0134 N75-22783 UNDERWATER ENGINEERING	Energy efficiency of current intercity passenger
Two-watt radioisotope power generators for	transportation modes [AIAA PAPER 75-314] 06 p0047 A75-22513
underwater applications	Mode shift strategies in intercity transportation
05 p0007 A75-10556 Energy sources for ocean technology for	and their effect on energy consumption [AIAA PAPER 75-315] 06 p0055 A75-25013
unmanned surface stations and manned underwater	[AIAA PAPER 75-315] 06 p0055 A75-25013 A comparative analysis of the energy consumption
stations	for several urban passenger ground
UPDERWATER STRUCTURES 07 p0114 A75-33118	transportation systems [PB-238041/8] 06 p0107 #75-21160
Prospects for utilization of underwater houses and	Impact of future use of electric cars in the Los
chambers in development of marine oil deposits	Angeles region. Volume 1: Executive summary
05 p0029 N75-11606	and technical report [PB-238877/5] 07 p0131 #75-22199
UNIQUENESS THEOREM Convergence and speed of calculations for	Impact of future use of electric cars in the Los
thermoelectric heat pump	Angeles region. Volume 2: Task reports on
05 p0020 A75-17084	electric car characterization and baseline
UNITED STATES OF AMERICA MEGASTAR: The Meaning of Energy Growth: An	projections [PB-238878/3] 07 p0131 B75-22200
Assessment of Systems, Technologies, and	Impact of future use of electric cars in the Los
Requirements	Angeles region. Volume 3: Task reports on
[NASA-CR-120355] 05 p0023 N75-10584 Energy and security: Implications for American	impact and usage analysis [PB-238879/1] 07 p0131 H75-22201
policy	DOT/BASA comparative assessment of Brayton engines
[AD-785084] 05 p0032 N75-12857	for guideway vehicles and busses. Volume 2:
Energy required to develop power in the United States	Analysis and results [NASA-SP-354-VOL-2] 07 p0133 N75-22745
05 p0032 N75-13378	Papers and proceedings of two energy crisis seminars
Japanese/United States Symposium on Solar Energy	for urban transportation [PB-239164/7] 07 p0156 N75-26513
systems. Volume 1: Summary of proceedings [MTR-6284-VOL-1] 05 p0036 N75-14264	[PB-239164/7] 07 p0156 N75-26513 Energy use of public transit systems
Conservation and efficient use of energy	[PB-241351/6] 08 p0209 H75-31962
[H-REPT-93-1634] 05 p0036 N75-14265	

SUBJECT INDEX VOLTAGE GENERATORS

Determine utility of BRTS-1 to detect and monitor area strip mining and reclamation --- southeastern Ohio The NBS computerized carpool matching system: User's guide [COM-75-10691/4] 08 p0214 H75-33749 OSER HANUALS (COMPUTER PROGRAMS)
Long term power system dynamics. [B75-10327] 07 p0158 875-27515 VEHICLES Long-term power system dynamics simulation program [PB-240800/3] 07 p0161 875-27574 Study of potential for motor vehicle fuel economy improvement. Truck and bus panel report no. 7 [PB-241777/2] 08 p0212 E75-33411 The NBS computerized carpool matching system: User's guide [COM-75-10691/4] VERICULAR TRACES

A wind energy conversion system based on the tracked-vehicle airfoil concept 08 p0214 N75-33749 USER REQUIREMENTS Solar electric and thermal conversion system in 05 p0004 A75-10518 close proximity to the consumer --- solar panels VERTICAL TAKEOFF AIRCRAFT 'Time is energy' /Henson and Stringfellow Memorial Lecture/ --- VTOL aircraft developments 07 p0412 A75-32324 on house roofs [AIAA PAPER 75-628] 06 p0062 A75-28597 UTAH' Average oil yeild tables for oil shale sequences in cores from the Uinta Basin, Utah, that average 15, 20, 25, 30, 35, and 40 gallons per ton [PB-236068/3] 06 p0072 N75-16124 VIKING MARS PROGRAM SHAP 19 Viking RTG flight configuration and integration testing --- Radioisotope Thermoelectric Generator UTILITIES 05 p0003 A75-10504 Small coal burning gas turbine for modular integrated utility systems VIRGINIA Interdisciplinary study of atmospheric processes and constituents of the mid-Atlantic coastal region. Attachment 3: Data set for Craney 05 p0006 A75-10546 The Energy Systems Optimization Computer Program /ESOP/ developed for Modular Integrated Utility Systems /HIUS/ analysis region. Attachment 3: Data set for Craney
Island oil refinery installation experiment --air pollution monitoring
[MASA-CR-142823] 07 p0141 N75-24121
Interdisciplinary study of atmospheric processes
and constituents of the mid-Atlantic coastal
region. Attachment 4: Data set for background
investigation of atmospheric constituents for 05 p0006 A75-10551 The PCG-1 fuel cell powerplant for electric utility use 05 p0013 A75-12992 The Hydrogen Economy - A utility perspective energy technology Nansemond River site --- a proposed oil refinery 05 p0014 A75-12998 site An energy utility company's view of hydrogen energy 08 p0172 A75-42283 Hydrogen storage and production in utility systems [BNL-18920] 06 p0097 N75-20580 Utility company views of geothermal development 07 p0141 N75-24122 [NASA-CR-142821] VISCOUS PLUIDS Theoretical study of the energy output of two magnetohydrodynamic generators 07 p0125 A75-38568 06 p0102 N75-20864 VOLT-ABPERE CHARACTERISTICS A-AMPERE CHARACTERISTICS
Rethanol/air acidic fuel cell system
05 p0008 A75-10566 UTILIZATION Effective utilization of solar energy to produce Report on progress in achieving direct conversion of a major fraction of sonic flow kinetic power clean fuel [PB-233956/2] 05 p0026 N75-10605 into electrical power by electrofluid dynamic /EPD/ processes 05 p0009 A75-10576 Further progress in the technology of silk screened CdS solar cells V GROOVES V-grooved silicon solar cells 07 p0123 A75-37397 06 p0052 A75-24225 VACUUM DEPOSTUTOR Empirical method of designing the current-voltage characteristics for the discharge mode of a Thin film coatings in solar-thermal power systems 06 p0056 A75-25679 thermionic converter 06 p0057 A75-26332
Temperature effects in Schottky-barrier silicon VACUUM TESTS
Ames Heat Pipe Experiment (AMPE) experiment
description document --- performance testing in solar cells a vacuum environment [NASA-CR-114413] 07 p0115 A75-34175 Investigation of photoelectric converter operation under conditions of strong illumination 07 p0138 N75-23880 VAPOR DEPOSITION Polycrystalline silicon layers for solar cells 07 p0119 A75-36015 08 p0165 A75-38958 The conversion efficiency of ideal Shockley p-n Chemical vapor deposition research for fabrication junction photovoltaic converters in concentrated of solar energy convertors sunlight [PB-235481/9] 05 p0041 N75-15185 07 p0120 A75-36362 Research applied to solar-thermal power systems: Chemical wapor deposition research for fabrication of solar energy convertors Effects of high doping levels on silicon solar cell performance 07 p0123 A75-37403 [PB-234565/0] 05 p0041 N75-151 Chemical vapor deposition research for fabrication 05 p0041 N75-15186 Operation of photoconverters under conditions of strong illumination of solar energy convertors 08 p0170 A75-41538 [PB-236189/7] 06 p0072 N75-161 Chemical vapor deposition research for fabrication An Al p-silicon MOS photovoltaic cell 06 p0072 N75-16119 08 p0 173 A75-43459 Hydrogen generation through static-feed water of solar energy converters [PB-238947/6] 07 p0143 N75-24137 electrolysis 08 p0177 A75-44776 Hydrogen generation by solid-polymer electrolyte water electrolysis VAPOR PRASES Workshop in Gas-Phase Molecular Interactions and the Nation's Energy Problem [PB-236712/6] 06 p0086 N75-18718 08 p0177 A75-44777 VAPORIZIEG Hydrogen production by water electrolysis -Methods for approaching ideal efficiencies Operational, maintenance, and environmental problems associated with a fossil fuel-fired 08 p0193 A75-46023 potassium steam binary vapor cycle [ORNL-NSF-EP-30] 06 VOLTAGE CONVERTERS (DC TO DC) 06 p0090 N75-18769 Milliwatt fuel cell system for sensors VEGETATION 05 p0008 A75-10565 Effective utilization of solar energy to produce VOLTAGE GENERATORS clean fuel Blectrostatic voltage generation from flowing water [PB-233956/2] 05 p0026 N75-10605 05 p0009 A75-10580

• • • • • • • • • • • • • • • • • • •	Converting cellulosic waste to fuel: A literature review
DATT POMODDAGNOD	. [AD-A009400] 08 p0211 H75-3259 WASTE UTILIZATION
WALL TEMPERATURE Thermal performance characteristics of heat pipes 06 p0046 A75-21465	Potential of Rankine engines to produce power from waste heat streams
WASTE DISPOSAL	05 p0006 A75-1054
Soil burial of radioisotopic fuel capsules 06 p0046 175-21274	Energy from urban wastes 05 p0006 A75-1054
Biological conversion of organic refuse to methane [PB-235468/6] 05 p0041 H75-15183	An evaluation of discarded tires as a potential source of fuel
Bureau of Mines research programs on recycling and	05 p0012 A75-1241
disposal of mineral, metal, and energy-based wastes	Two-stage methane production from solid wastes [ASME PAPER 74-WA/EBER-11] 05 p0017 A75-1684
[PB-227476/9] 05 p0042 H75-15203	Gasification of solid wastes in fixed beds
Pollutional problems and research needs for an oil	[ASHE PAPER 74-WA/PWR-10] 05 p0018 A75-1688
shale industry [PB-236608/6] 06 p0084 B75-17848	Energy problems - Solar energy and manure gas 05 p0020 A75-1702
Nuclear system that burns its own wastes shows	Energy - Engineering - Environment; Proceedings of
promise [NASA-NEWS-RELFASE-75-44] 06 p0085 N75-18716	the Seventh Annual Prontiers of Power Technology Conference, Stillwater, Okla., October 9, 10, 197
Fuel gas production from solid waste	08 p0168 A75-4017
[PB-238068/1] 06 p0095 #75-19843	Methanol from forestry, municipal, and
<pre>Bnergy recovery frcm solid waste. Volume 1: Summary report</pre>	agricultural organic residues [BHWL-SA-5053] 06 p0085 N75-1870
[NASA-CR-2525] 06 p0098 N75-20830	Pyrolysis system evaluation study
Waste heat disposal from nuclear power plants [COM-75-10407/5] 07 p0158 H75-27324	[HASA-CR-141664] 06 p0086 H75-1872 Waste lubricating oil research. A comparison of
An agro-power-waste water complex for land	bench-test properties of re-refined and virgin
disposal of waste heat and waste water	lubricating oils materials recovery
[PB-239675/2] 07 p0161 H75-27570 Glass recycling and reuse	[PB-238124/2] 06 p0097 H75-20740 Bnergy recovery from solid waste. Volume 1:
[PB-239674/5] 08 p0200 N75-28536	Summary report
Waste automotive lubricating oil reuse as a fuel	[NASA-CR-2525] 06 p0098 B75-2083
[PB-241357/3] 08 p0204 N75-30331 Converting cellulosic waste to fuel: A literature	Energy and fixed nitrogen from agricultural residue. [BNWL-SA-5070] 06 p0103 N75-2087
review	Where the boilers are: A survey of electric
[AD-A009400] 08 p0211 E75-32596 WASTE BEERGY UTILIZATION	utility boilers with potential capacity for burning solid waste as fuel
Economics of a hydrogen storage peaking power plant	[PB-239392/4] 07 p0143 H75-2413
[ASHE PAPER 74-WA/PWR-6] 05 p0018 A75-16880	Energy recovery from solid waste. Volume 2:
Urban waste energy resources [AIAA PAPER 75-632] 06 p0062 A75-28598	Technical report pyrolysis and biodegradation [NASA-CR-2526] 07 p0148 N75-2529
Storage of summertime waste heat from electric	Strontium fluoride research in heat source and
generating plants for use in wintertime [AIAA PAPER 75-743] 07 p0113 A75-32852	compatibility tests waste utilization [BBWL-1845-2] 07 p0152 B75-2569
Application of fuel cells with heat recovery for	Strontium heat source development programs
integrated utility systems 08 p0187 175-45949	waste utilization
Heat pipe thermal recovery units for process	[BNWL-1845-4] 07 p0152 N75-25690 Study of an integrated power, water and wastewater
exhaust energy utilization	utility complex
08 p0194 A75-46041 High temperature heat pipes for energy conservation	[PB-239408/8] 07 p0157 N75-2652: Conversion of cellulosic wastes to oil
thermal waste recovery system	[PB-240839/1] 07 p0161 H75-2757
08 p0194 A75-46042 Bioconversion of solar energy and solid waste	Glass recycling and reuse [PB-239674/5] 08 p0200 H75-28530
energy into useable fuels	The need for a national materials policy, part 1
[GPO-37-403] 05 p0028 N75-11463	[GPO-39-885] 08 p0209 N75-31954
Air conditioning of office buildings with all-electric supply. Part 1: Technical	The need for a national materials policy, part 2 [GPO-40-687] 08 p0209 B75-3195
conception	The need for a national materials policy, part 3
[OA-TRANS-938-PT-1] 06 p0074 H75-16970 Energy recovery from solid waste production	[GPO-40-687] 08 p0209 H75-31956
engineering model	The generation of hydrogen by the thermal
06 p0079 N75-17200 Energy recovery from solid waste. Volume 1:	decomposition of water 05 p0005 A75-1053
Summary report	Nuclear energy requirements for hydrogen
[NASA-CR-2525] 06 p0098 B75-20830	production from water
Management of power plant waste heat in cold regions [AD-A003217] 06 p0104 B75-20881	05 p0005 A75-1053: Thermolysis of water for the generation of hydrogen
Production of gaseous fuel by pyrolysis of	06 p0049 A75-23504
municipal solid waste [NASA-CR-141791] 07 p0140 H75-24105	Nuclear water splitting and high temperature reactors
Utilisation of waste heat from inductive melting	08 p0175 A75-44757
installations	Thermochemical water cracking using solar heat
[BLL-OA-TRANS-949-(6196.3)] 07 p0153 H75-26492 Animal waste conversion systems based on thermal	08 p0175 A75-44765 Photolysis of water as a solar energy conversion
discharge	process - An assessment
. [PB-240113] 07 p0159 B75-27548 Use of thermally enriched water for growing field	08 p0176 A75-44766 An analysis of hydrogen production via
crops in Minnesota	closed-cycle schemes thermochemical
[PB-240112] 07 p0159 H75-27549	processings from water
An agro-power-waste water complex for land disposal of waste heat and waste water	08 p0176 A75-44771 Hydrogen generation through static-feed water
[PB-239675/2] 07 p0161 H75-27570	electrolysis
Waste automotive lubricating oil reuse as a fuel [PB-241357/3] 08 p0204 N75-30331	08 p0177 A75-44776 Hydrogen generation by solid-polymer electrolyte
Liquid-metal binary cycles for stationary power	water electrolysis
[NASA-TN-D-7955] 08 p0205 E75-30649	08 p0177 A75-44777
•	

SUBJECT INDEX WEIGHT ANALYSIS

•	
Evaluation of multi-step thermochemical processes	Complex utilization of a solar power plant
for the production of hydrogen from water 08 p0177 A75-44778	07 p0116 A75-34320 Comprehensive utilization of a solar installation
Considerations on iron-chloride-oxygen reactions in relation to thermochemical water-pitting	08 p0170 A75-41533 Solar energy conversion by water photodissociation
08 p0177 A75-44779 Analysis of thermochemical water-splitting cycles energy efficiency evaluation	08 p0173 A75-43510 Digest of energy facts for water resources studies in Minnesota
08 p0177 A75-44781	[PB-239961/6] 07 p0156 N75-26515
A search for thermochemical water-splitting cycles for energy production	The impact of energy development on water resources in arid lands. Literature review and
O8 p0177 A75-44782 Primary data on economic activity and water use in	annotated bibliography [PB-240008/3] 07 p0157 #75-26550
prototype oil shale development areas of Colorado: An initial inquiry	WATER TEMPERATURE Theoretical determination of the temperature in a
[PB-236039/4] 05 p0037 N75-14277	solar water heater /steady state/
Production of hydrogen from water using nuclear energy. A review for hydrogen-based energy	07 p0112 A75-31513 Theoretical research on the operation of a solar
[JAERI-#-5642] 06 p0093 N75-19824 Fundamental aspects of systems for the	water heater and comparison with experimental data 07 p0112 A75-31515
thermochemical production of hydrogen from water	Study of the influence of container design and the
[LA-UR-74-1459] 07 p0127 N75-21391 ATER CONSUMPTION	thermal inertness of solar water heaters on their efficiency
The economics of using wind power for electricity	07 p0119 A75-36018
supply in the Metherlands and for water supply on Curacao	Year round performance studies on a built-in storage type solar water heater at Jodhpur, India
[NASA-TT-F-15982] 05 p0024 N75-10587	08 p0167 A75-39406
ATER FLOW Hot side heat exchanger for an ocean thermal difference power plant	Investigation of the effect of boiler design and finite thermal response of solar water heaters on efficiency
05 p0004 A75-10527	08 p0170 A75-41541
Blectrostatic voltage generation from flowing water 05 p0009 A75-10580	Computation of water temperature at the mouth of a geothermal well
Steady state free convection in an unconfined geothermal reservoir	08 p0170 A75-41547 Industrial process heat from solar energy
05 p0009 A75-11069 Production of oil from fractured reservoirs by	energy storage in water pond 08 p0190 A75-45992
water displacement 07 p0127 N75-21716	New dimensions in water heating in the Northwest - A study of solar energy utilization computer
Solar powered pump	mode1
[NASA-CASE-NPO-13567-1] 07 p0133 N75-22746 Oil displacement by different surfactant and polymer waterflocd systems	08 p0191 A75-45995 Collection and concentration of solar energy using Fresnel type lenses
07 p0134 N75-22858	[NASA-CR-142194] 06 p0080 N75-17784
ATER INJECTION	Animal waste conversion systems based on thermal
Profitability analysis of producing crude oil by waterflooding using a simulation technique	discharge [PB-240113] 07 p0159 N75-27548
[PB-237843/8] 06 p0088 H75-18738	WATER TREATMENT
Solvent stimulation tests in two California oilfields	Solar stills for agricultural purposes 07 p0115 A75-33972
[PB-237849/5] 06 p0090 N75-18761	Study of an integrated power, water and wastewater
ATER HANAGEMENT	utility complex [PB-239408/8] 07 p0157 N75-26523
Some aspects of a solar battery system and its use for irrigation in remote sun-rich regions 06 p0054 A75-24256	[PB-239408/8] 07 p0157 N75-26523 WATER VAPOR High-efficiency electrochemical plant
Proceedings of the Workshop on Research Needs	08 p0189 A75-45977
Related to Water for Energy [PB-241346/6] 08 p0208 N75-31581	WATERWAYE BHERGY Other primary energy resources geothermal,
ATBR POLLUTION	tidal, wind, waterwave and glacier energy
Environmental impact of a geothermal power plant	utilization
06 p0049 175-23291 Trace elements by instrumental neutron activation	06 p0050 A75-23512 WATERWAVE ENERGY CONVERSION
analysis for pollution monitoring	Characteristics of a rocking wave power device
08 p0166 A75-39335 Benthal decomposition of adsorbed octadecame	for waterwave energy conversion 06 p0062 A75-28450
impact of oil pollution, deoxygenation of waterways	Site limitations on Solar Sea Power Plants [ATAA PAPER 75-618] 06 p0062 A75-28594
06 p0106 #75-20891	The potential of natural energy sources
At-sea testing of a high seas oil recovery system [AD-A006938] 07 p0136 N75-22953	08 p0165 A75-38865 A resonant point absorber of ocean-wave power
Harine pollution menitoring (petroleum): Proceedings of a Symposium and Workshop held at	08 p0170 A75-41425 WATERWAYE POWERED MACHINES
the Hational Bureau of Standards [COM-75-50071/0] 07 p0146 H75-24183	The oceanic biomass energy plantation seaweed harvesting for food and fuel
The identification of gamma-valerolactone in waste from an oil-shale in situ retort	[AIAA PAPER 75-635] 06 p0063 A75-28599 WEATHER DATA RECORDERS
determination of chemical composition by mass	Sizing of solar energy storage systems using local
spectroscopy of effluents from crude oil shales causing water pollution [PR-240008/41] 07 p0147 #75-24952	weather records [ASHE PAPER 74-WA/HT-20] 05 p0017 A75-16865
[PB-240098/4] 07 p0147 H75-24852 ATER QUALITY	WEATHER MODIFICATION Solar climate control - Evaluating the connercial
Mass spectrometric analysis of product water from	possibilities
Coal gasification [PB-240835/9] 07 p0158 N75-27120	UBIGHT ANALYSIS 08 p0168 A75-40297
ATER RESOURCES	Light-weight radioisotope theracelectric generator
Some generalizations of sample water-supply	design
calculations for solar-powered pumping plants 05 p0020 A75-17077	05 p0003 A75-10508

Solar cell modules for lightweight solar arrays onboard communication satellites 06 p0057 A75-26068	Economic and technical aspects of wind generation systems 07 p0116 A75-34533
WEIGHT REDUCTION	Wind energy utilization prospects
Evaluation of the overall fuel mass penalty of an aircraft system 07 p0121 A75-36720	07 p0117 A75-34928 Airborne windmills - Energy source for communication aerostats
SEPS solar array design and technology evaluation 08 p0192 a75-46016	[AIAA PAPER 75-923] 08 p0165 A75-38868 Generation of power from the wind windmill
Weight contribution to fuel conservation for	electric generators
terminal area compatible aircraft [SAWE PAPER 1091] 08 p0196 A75-47509 WRIGHTLESS PLUIDS	08 p0167 A75-39365 The effect of atmospheric turbulence on windmill performance
Cryogenic heat pipe experiment - Plight	08 p0174 A75-44756
performance onboard a sounding rocket	Preliminary results of the large experimental wind
[AIAA PAPER 75-729] 07 p0113 A75-32872 WRIGHTLESSURSS	turbine phase of the national wind energy program 08 p0196 A75-47798
The International Beat Pipe Experiment ten experiments in zero gravity	Standardized wind electric power unit [AD-783764] 05 p0025 B75-10598
[ATAA PAPER 75-726] 07 p0113 A75-32870	Wind power projects of the Prench electrical authority
Computation of water temperature at the mouth of a geothermal well	[HASA-TT-F-16057] 05 p0033 H75-13384 Exploiting wind power for the production of
08 p0170 A75-41547	electricity windmill utilization in Denmark
Offshore investigation: Producible shut-in	[NASA-TT-F-16058] 05 p0033 H75-13385
leases, January 1974, phase 1 potentially	Structural analysis of wind turbine rotors for
productive oil and gas wells	MSF-NASA Mod-0 wind power system
05 p0027 N75-11457	[NASA-TH-X-3198] 06 p0080 H75-17712
Radiological surveillance program for the project	Wind power machines including operating
Gasbuggy production test, 15 May - 6 November 1973	principles
[NERC-LV-539-30] 06 p0073 N75-16337	[NASA-TT-F-16195] 06 p0080 N75-17786
Dry oil [BLL-H-23508-(5828.4P)] 06 p0074 N75-16969	Wind motors: Theory, construction, assembly and use in drawing water and generating electricity
WEST INDIES	[NASA-TT-F-16201] 06 p0093 N75-19821
The economics of using wind power for electricity	Applied aerodynamics of wind power machines
supply in the Netherlands and for water supply	rotor blades (turbomachinery)
on Curacao [NASA-TT-P-15982] 05 p0024 N75-10587	[PB-238595/3] 07 p0133 N75-22669 WINDOWS (APERTURES)
WHERLS	Semi-transparent solar collector window systems
Wind power machines including operating	08 p0167 A75-39405
principles	WINDPOWER UTILIZATION
[HASA-TT-F-16195] 06 p0080 B75-17786 WHISKERS (SINGLE CRYSTALS)	A planning methodology for the analysis and design of wind-power systems
W HEA COUCEDE FOR SOTAL SHELDA FUELWAY CONACTSION	05 p0004, A75-10517
A new concept for solar energy thermal conversion 07 p0110 A75-30368	05 p0004, A75-10517 Windpower - Look backward, then move forward
07 p0110 a75-30368	Windpower - Look backward, then move forward confidently for electric power generation in
07 p0110 A75-30368 WICRS A design parameter for assessing wicking	Windpower - Look backward, then move forward confidently for electric power generation in rural areas
07 p0110 A75-30368 WICES A design parameter for assessing wicking capabilities of heat pipes	Windpower - Look backward, then move forward confidently for electric power generation in rural areas 05 p0014 175-12997
07 p0110 A75-30368 WICRS A design parameter for assessing wicking	Windpower - Look backward, then move forward confidently for electric power generation in rural areas
WICES A design parameter for assessing wicking capabilities of heat pipes [AIAM PAPER 74-1266] 05 p0010 A75-11107 An investigation of heat-pipe wick characteristics 05 p0012 A75-12914	Windpower - Look backward, then move forward confidently for electric power generation in rural areas 05 p0014 175-12997 Prospects for tapping solar energy on a large scale 05 p0015 175-14014 Considerations regarding a utilization of solar
WICES A design parameter for assessing wicking capabilities of heat pipes [AIAA PAPER 74-1266] 05 p0010 A75-11107 An investigation of heat-pipe wick characteristics 05 p0012 A75-12914 WIED (HETEOROLOGY)	Windpower - Look backward, then move forward confidently for electric power generation in rural areas 05 p0014 A75-12997 Prospects for tapping solar energy on a large scale 05 p0015 A75-14014 Considerations regarding a utilization of solar energy thermal, electric and wind energy
WICRS A design parameter for assessing wicking capabilities of heat pipes [Aliah PAPER 74-1266] An investigation of heat-pipe wick characteristics 05 p0012 A75-12914 WIED (MRTEOROLOGY) Benefit-cost methodology study with example	Windpower - Look backward, then move forward confidently for electric power generation in rural areas 05 p0014 A75-12997 Prospects for tapping solar energy on a large scale 05 p0015 A75-14014 Considerations regarding a utilization of solar energy thermal, electric and wind energy systems
WICES A design parameter for assessing wicking capabilities of heat pipes [AIAN PAPER 74-1266] 05 p0010 A75-11107 An investigation of heat-pipe wick characteristics 05 p0012 A75-12914 WIND (HETROROLOGY) Benefit-cost methodology study with example application of the use of wind generators	Windpower - Look backward, then move forward confidently for electric power generation in rural areas 05 p0014 A75-12997 Prospects for tapping solar energy on a large scale 05 p0015 A75-14014 Considerations regarding a utilization of solar energy thermal, electric and wind energy systems 06 p0050 A75-23510
WICRS A design parameter for assessing wicking capabilities of heat pipes [AlIA PAPER 74-1266] 05 p0010 A75-11107 An investigation of heat-pipe wick characteristics 05 p0012 A75-12914 WIED (HRTEOROLOGY) Benefit-cost methodology study with example application of the use of wind generators [BASA-CR-134864] 08 p0207 B75-31571 WIED EFFECTS	Windpower - Look backward, then move forward confidently for electric power generation in rural areas 05 p0014 A75-12997 Prospects for tapping solar energy on a large scale 05 p0015 A75-14014 Considerations regarding a utilization of solar energy thermal, electric and wind energy systems 06 p0050 A75-23510 Other primary energy resources geothermal, tidal, wind, waterwave and glacier energy
WICES A design parameter for assessing wicking capabilities of heat pipes [AIAA PAPER 74-1266] An investigation of heat-pipe wick characteristics 05 p0012 A75-12914 WIED (METEOROLOGY) Benefit-cost methodology study with example application of the use of wind generators [NASA-CR-134864] WIED EPPECTS Radiation cooling of structures with infrared	Windpower - Look backward, then move forward confidently for electric power generation in rural areas O5 p0014 A75-12997 Prospects for tapping solar energy on a large scale 05 p0015 A75-14014 Considerations regarding a utilization of solar energy thermal, electric and wind energy systems O6 p0050 A75-23510 Other primary energy resources geothermal, tidal, wind, waterwave and glacier energy utilization
WICRS A design parameter for assessing wicking capabilities of heat pipes [AIAM PAPER 74-1266] An investigation of heat-pipe wick characteristics 05 p0012 A75-12914 WIND (HRTSOROLOGY) Benefit-cost methodology study with example application of the use of wind generators [BASA-CR-134864] WIND EFFECTS Radiation cooling of structures with infrared transparent wind screens	Windpower - Look backward, then move forward confidently for electric power generation in rural areas 05 p0014 A75-12997 Prospects for tapping solar energy on a large scale 05 p0015 A75-14014 Considerations regarding a utilization of solar energy thermal, electric and wind energy systems 06 p0050 A75-23510 Other primary energy resources geothermal, tidal, wind, waterwave and glacier energy utilization 06 p0050 A75-23512
WICRS A design parameter for assessing wicking capabilities of heat pipes [AIIA PAPER 74-1266] An investigation of heat-pipe wick characteristics 05 p0012 A75-12914 WIED (HRTEOROLOGY) Benefit-cost methodology study with example application of the use of wind generators [BASA-CR-134864] WIED SPPECTS Radiation cooling of structures with infrared transparent wind screens 08 p0167 A75-39407	Windpower - Look backward, then move forward confidently for electric power generation in rural areas 05 p0014 A75-12997 Prospects for tapping solar energy on a large scale 05 p0015 A75-14014 Considerations regarding a utilization of solar energy thermal, electric and wind energy systems 06 p0050 A75-23510 Other primary energy resources geothermal, tidal, wind, waterwave and glacier energy utilization 06 p0050 A75-23512 Ocean thermal power and windpower systems -
WICES A design parameter for assessing wicking capabilities of heat pipes [AIAN PAPER 74-1266] 05 p0010 A75-11107 An investigation of heat-pipe wick characteristics 05 p0012 A75-12914 WIND (HETEOROLOGY) Benefit-cost methodology study with example application of the use of wind generators [HASA-CR-134864] 08 p0207 B75-31571 WIND EFFECTS Radiation cooling of structures with infrared transparent wind screens 08 p0167 A75-39407 WIND SHEAR Structural analysis of wind turbine rotors for	Windpower - Look backward, then move forward confidently for electric power generation in rural areas 05 p0014 A75-12997 Prospects for tapping solar energy on a large scale 05 p0015 A75-14014 Considerations regarding a utilization of solar energy thermal, electric and wind energy systems 06 p0050 A75-23510 Other primary energy resources geothermal, tidal, wind, waterwave and glacier energy utilization 06 p0050 A75-23512 Ocean thermal power and windpower systems - Watural solar energy conversion for near-term impact on world energy markets
WICRS A design parameter for assessing wicking capabilities of heat pipes [AIIA PAPER 74-1266] 05 p0010 A75-11107 An investigation of heat-pipe wick characteristics 05 p0012 A75-12914 WIND (HRTEOROLOGY) Benefit-cost methodology study with example application of the use of wind generators [BASA-CR-134864] 08 p0207 B75-31571 WIND EFFECTS Radiation cooling of structures with infrared transparent wind screens 08 p0167 A75-39407 WIND SHEAR Structural analysis of wind turbine rotors for BSF-BASA Bod-0 wind power system	Windpower - Look backward, then move forward confidently for electric power generation in rural areas 05 p0014 A75-12997 Prospects for tapping solar energy on a large scale 05 p0015 A75-14014 Considerations regarding a utilization of solar energy thermal, electric and wind energy systems 06 p0050 A75-23510 Other primary energy resources geothermal, tidal, wind, waterwave and glacier energy utilization 06 p0050 A75-23512 Ocean thermal power and windpower systems - Watural solar energy conversion for near-term impact on world energy markets 06 p0060 A75-27790
WICES A design parameter for assessing wicking capabilities of heat pipes [AIAA PAPER 74-1266] NI investigation of heat-pipe wick characteristics 05 p0012 A75-12914 WIND (HETEOROLOGY) Benefit-cost methodology study with example application of the use of wind generators [NASA-CR-134864] WIND SPERCES Radiation cooling of structures with infrared transparent wind screens 08 p0167 A75-39407 WIND SHEAR Structural analysis of wind turbine rotors for BSF-HASA Mod-0 wind power system [NASA-TR-X-3198] 06 p0080 B75-17712	Windpower - Look backward, then move forward confidently for electric power generation in rural areas 05 p0014 A75-12997 Prospects for tapping solar energy on a large scale 05 p0015 A75-14014 Considerations regarding a utilization of solar energy thermal, electric and wind energy systems 06 p0050 A75-23510 Other primary energy resources geothermal, tidal, wind, waterwave and glacier energy utilization 06 p0050 A75-23512 Ocean thermal power and windpower systems Watural solar energy conversion for near-term impact on world energy markets 06 p0060 A75-27790 Utilization of wind energy
WICRS A design parameter for assessing wicking capabilities of heat pipes [AIIA PAPER 74-1266] O5 p0010 A75-11107 An investigation of heat-pipe wick characteristics 05 p0012 A75-12914 WIND (HRTEOROLOGY) Benefit-cost methodology study with example application of the use of wind generators [BASA-CR-134864] WIND SPPECTS Radiation cooling of structures with infrared transparent wind screens 08 p0167 A75-39407 WIND SHEAR Structural analysis of wind turbine rotors for BSF-HASA Hod-O wind power system [HASA-TH-I3198] WIND TORNEL DRIVES A generalised analysis of the performance of a	Windpower - Look backward, then move forward confidently for electric power generation in rural areas 05 p0014 A75-12997 Prospects for tapping solar energy on a large scale 05 p0015 A75-14014 Considerations regarding a utilization of solar energy thermal, electric and wind energy systems 06 p0050 A75-23510 Other primary energy resources geothermal, tidal, wind, waterwave and glacier energy utilization 06 p0050 A75-23512 Ocean thermal power and windpower systems - Watural solar energy conversion for near-term impact on world energy markets 06 p0060 A75-27790 Utilization of wind energy Vind power electricity generation
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WICES A design parameter for assessing wicking capabilities of heat pipes [AIAA PAPER 74-1266] 05 p0010 A75-11107 An investigation of heat-pipe wick characteristics 05 p0012 A75-12914 WIND (HETEOROLOGY) Benefit-cost methodology study with example application of the use of wind generators [HASA-CR-134864] 08 p0207 B75-31571 WIND EFFECTS Badiation cooling of structures with infrared transparent wind screens 08 p0167 A75-39407 WIND SHEAR Structural analysis of wind turbine rotors for HSF-HASA Hod-O wind power system [HASA-TH-I-3198] 05 p0080 B75-17712 WIND TURNEL DRIVES A generalised analysis of the performance of a variety of drive systems for high Reynolds number, transonic wind tunnels	Windpower - Look backward, then move forward confidently for electric power generation in rural areas 05 p0014 A75-12997 Prospects for tapping solar energy on a large scale 05 p0015 A75-14014 Considerations regarding a utilization of solar energy thermal, electric and wind energy systems 06 p0050 A75-23510 Other primary energy resources geothermal, tidal, wind, waterwave and glacier energy utilization 06 p0050 A75-23512 Ocean thermal power and windpower systems Watural solar energy conversion for near-term impact on world energy markets 06 p0060 A75-27790 Utilization of wind energy 07 p0110 A75-30891 Wind power electricity generation 07 p0111 A75-31273
WICRS A design parameter for assessing wicking capabilities of heat pipes [AIIA PAPER 74-1266] In investigation of heat-pipe wick characteristics 05 p0012 A75-12914 WIND (HRTEOROLOGY) Benefit-cost methodology study with example application of the use of wind generators [BASA-CR-134864] WIND SPPECTS Radiation cooling of structures with infrared transparent wind screens OR p0167 A75-39407 WIND SHRAR Structural analysis of wind turbine rotors for BSF-HASA Hod-O wind power system [HASA-TR-I3198] WIND TUBNEL DRIVES A generalised analysis of the performance of a variety of drive systems for high Reynolds number, transonic wind tunnels [RAE-TR-73134] OR 50070 A75-16572	Windpower - Look backward, then move forward confidently for electric power generation in rural areas O5 p0014 A75-12997 Prospects for tapping solar energy on a large scale 05 p0015 A75-14014 Considerations regarding a utilization of solar energy thermal, electric and wind energy systems O6 p0050 A75-23510 Other primary energy resources geothermal, tidal, wind, waterwave and glacier energy utilization O6 p0050 A75-23512 Ocean thermal power and windpower systems - Batural solar energy conversion for near-term impact on world energy markets O6 p0060 A75-27790 Utilization of wind energy O7 p0110 A75-30891 Wind power electricity generation O7 p0111 A75-31273
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WICRS A design parameter for assessing wicking capabilities of heat pipes [AIAA PAPER 74-1266] An investigation of heat-pipe wick characteristics 05 p0012 A75-12914 WIND (HRTEOROLOGY) Benefit-cost methodology study with example application of the use of wind generators [BASA-CR-134864] WIND SPPECTS Radiation cooling of structures with infrared transparent wind screens 08 p0167 A75-39407 WIND SHAR Structural analysis of wind turbine rotors for BSF-HASA Hod-O wind power system [HASA-TR-I3198] WIND TUBNEL DRIVES A generalised analysis of the performance of a variety of drive systems for high Reynolds number, transonic wind tunnels [RAE-TR-73134] WIND TUBNEL TRSTS Tornado-type wind energy system a multimegawatt power output unit	Windpower - Look backward, then move forward confidently for electric power generation in rural areas 05 p0014 A75-12997 Prospects for tapping solar energy on a large scale 05 p0015 A75-14014 Considerations regarding a utilization of solar energy thermal, electric and wind energy systems 06 p0050 A75-23510 Other primary energy resources geothermal, tidal, wind, waterwave and glacier energy utilization 06 p0050 A75-23512 Ocean thermal power and windpower systems - Hatural solar energy conversion for near-term impact on world energy markets 06 p0060 A75-27790 Utilization of wind energy Wind power electricity generation 07 p0110 A75-30891 Wind energy utilization prospects 07 p0117 A75-34928 Principles of a composite study involving combined use of solar and wind energy
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WICRS A design parameter for assessing wicking capabilities of heat pipes [AIIA PAPER 74-1266] An investigation of heat-pipe wick characteristics 05 p0012 A75-12914 WIED (HETEOROLOGY) Benefit-cost methodology study with example application of the use of wind generators [BASA-CR-134864] WIED EFFECTS Radiation cooling of structures with infrared transparent wind screens WIED SHEAR Structural analysis of wind turbine rotors for BSF-HASA Hod-O wind power system [HASA-TR-I3198] WIED TUBBEL DELIVES A generalised analysis of the performance of a variety of drive systems for high Reynolds number, transonic wind tunnels [RAE-TR-73134] WIED TUBBEL TESTS Tornado-type wind energy system a multimegawatt power output unit WIED TUBBELS Wind engines and wind installations [BASA-TT-F-16170] WIED TUBBELS WIND WIELSCOTT BEASUREEENT	Windpower - Look backward, then move forward confidently for electric power generation in rural areas 05 p0014 A75-12997 Prospects for tapping solar energy on a large scale 05 p0015 A75-14014 Considerations regarding a utilization of solar energy thermal, electric and wind energy systems 06 p0050 A75-23510 Other primary energy resources geothermal, tidal, wind, waterwave and glacier energy utilization 06 p0050 A75-23512 Ocean thermal power and windpower systems Watural solar energy conversion for near-term impact on world energy markets 06 p0060 A75-23712 Utilization of wind energy 07 p0110 A75-30891 Wind power electricity generation 07 p0111 A75-31273 Wind energy utilization prospects 07 p0117 A75-34928 Principles of a composite study involving combined use of solar and wind energy 07 p0122 A75-37160 Generalizations of composite studies involving combined use of wind and solar energy 07 p0122 A75-37161 Energy and Resources - A plan is outlined according to which solar and wind energy would
WICRS A design parameter for assessing wicking capabilities of heat pipes [AIAA PAPER 74-1266] An investigation of heat-pipe wick characteristics 05 p0012 A75-12914 WIDD (HRTEOROLOGY) Benefit-cost methodology study with example application of the use of wind generators [NASA-CR-134864] WIDD SHPECTS Radiation cooling of structures with infrared transparent wind screens OR p0167 A75-39407 WIDD SHAR Structural analysis of wind turbine rotors for HSF-HASA Hod-O wind power system [HASA-TH-I-3198] WIDD TUBBEL DRIVES A generalised analysis of the performance of a variety of drive systems for high Reynolds number, transonic wind tunnels [RAE-TR-73134] WIDD TUBBEL TESTS Tornado-type wind energy system a multimegawatt power output unit WIDD TUBBELS Wind engines and wind installations [NASA-TF-F-16170] WIND TUBBELS Wind engines and wind installations [NASA-TF-F-16170] WIND VELOCITY BEASUMERENT Wind power potential of Alaska, Part 1: Surface	Windpower - Look backward, then move forward confidently for electric power generation in rural areas 05 p0014 A75-12997 Prospects for tapping solar energy on a large scale 05 p0015 A75-14014 Considerations regarding a utilization of solar energy thermal, electric and wind energy systems 06 p0050 A75-23510 Other primary energy resources geothermal, tidal, wind, waterwave and glacier energy utilization 06 p0050 A75-23512 Ocean thermal power and windpower systems Watural solar energy conversion for near-term impact on world energy markets 06 p0060 A75-23512 Other primary energy resources geothermal, tidal, wind, waterwave and glacier energy utilization 06 p0050 A75-23512 Other primary energy resources of p0060 A75-23512 Other primary energy markets 06 p0060 A75-23512 Other primary energy markets 07 p0110 A75-30891 Wind power electricity generation 07 p0110 A75-30891 Wind energy utilization prospects 07 p0111 A75-34928 Principles of a composite study involving combined use of solar and wind energy 07 p0122 A75-37160 Generalizations of composite studies involving combined use of wind and solar energy 07 p0122 A75-37161 Energy and Resources - A plan is outlined according to which solar and wind energy would supply Demmark's needs by the year 2050
WICRS A design parameter for assessing wicking capabilities of heat pipes [AIAA PAPER 74-1266] O5 p0010 A75-11107 An investigation of heat-pipe wick characteristics O5 p0012 A75-12914 WIED (HETEOROLOGY) Benefit-cost methodology study with example application of the use of wind generators [NASA-CR-134864] O8 p0207 B75-31571 WIED SHERE Structural analysis of structures with infrared transparent wind screens 08 p0167 A75-39407 WIED SHERE Structural analysis of wind turbine rotors for HST-HASA Hod-O wind power system [HASA-TM-I-3198] O6 p0080 B75-17712 WIED TOWNEL DRIVES A generalised analysis of the performance of a variety of drive systems for high Reynolds number, transonic wind tunnels [RAE-TR-73134] WIED TOWNEL TESTS Tornado-type wind energy system multimegawatt power output unit 08 p0192 A75-46012 WIED TOWNELS Wind engines and wind installations (WASA-TT-F-16170] WIED TOWNELS Wind engines and wind installations (WASA-TT-F-16170) WIED TOWNELS WIND WIEGCIET BEASUREMENT WIED WIEGCIET BEASUREMENT WIED ADDRIVED Specific coastal sites	Windpower - Look backward, then move forward confidently for electric power generation in rural areas 05 p0014 A75-12997 Prospects for tapping solar energy on a large scale 05 p0015 A75-14014 Considerations regarding a utilization of solar energy thermal, electric and wind energy systems 06 p0050 A75-23510 Other primary energy resources geothermal, tidal, wind, waterwave and glacier energy utilization 06 p0050 A75-23512 Ocean thermal power and windpower systems Watural solar energy conversion for near-term impact on world energy markets 06 p0060 A75-23712 Utilization of wind energy 07 p0110 A75-30891 Wind power electricity generation 07 p0111 A75-31273 Wind energy utilization prospects 07 p0112 A75-374928 Principles of a composite study involving combined use of solar and wind energy 07 p0122 A75-37160 Generalizations of composite studies involving combined use of wind and solar energy 07 p0122 A75-37161 Energy and Resources - A plan is outlined according to which solar and wind energy would supply Denmark's needs by the year 2050 solar and wind power utilization for Denmark 07 p0124 A75-37846
WICRS A design parameter for assessing wicking capabilities of heat pipes [AIAA PAPER 74-1266] O5 p0010 A75-11107 An investigation of heat-pipe wick characteristics 05 p0012 A75-12914 WIED (HRTEOROLOGY) Benefit-cost methodology study with example application of the use of wind generators [NASA-CR-134864] WIED SHPECTS Radiation cooling of structures with infrared transparent wind screens O8 p0167 A75-39407 WIED SHRAE Structural analysis of wind turbine rotors for HSF-HASA Hod-O wind power system [HASA-TH-I-3198] WIED TUBBLE DRIVES A generalised analysis of the performance of a variety of drive systems for high Reynolds number, transonic wind tunnels [RAE-TR-73134] WIED TUBBLES TORNAGO-type wind energy system a multimegawatt power output unit UIED TUBBLS Wind engines and wind installations [MASA-TT-F-16170] WIED TUBBLS Wind engines and wind installations [MASA-TT-F-16170] WIED TUBBLS Wind engines and wind installations [MASA-TT-F-16170] WIED VELOCITY BEASUMERENT Wind power potential of Alaska, Part 1: Surface wind data from specific coastal sites [PD-238507/8] WIEDSTELLS (UIEDPOTERED MACHIES)	Windpower - Look backward, then move forward confidently for electric power generation in rural areas 05 p0014 A75-12997 Prospects for tapping solar energy on a large scale 05 p0015 A75-14014 Considerations regarding a utilization of solar energy thermal, electric and wind energy systems 06 p0050 A75-23510 Other primary energy resources geothermal, tidal, wind, waterwave and glacier energy utilization 06 p0050 A75-23512 Ocean thermal power and windpower systems - Watural solar energy conversion for near-term impact on world energy markets 06 p0060 A75-23512 Ocean thermal power and windpower systems - Watural solar energy conversion for near-term impact on world energy markets 07 p0110 A75-30891 Wind power electricity generation 07 p0111 A75-30891 Wind energy utilization prospects 07 p0117 A75-34928 Principles of a composite study involving combined use of solar and wind energy 07 p0122 A75-37160 Generalizations of composite studies involving combined use of wind and solar energy 07 p0122 A75-37161 Energy and Resources - A plan is outlined according to which solar and wind energy would supply Denmark's needs by the year 2050 solar and wind power utilization for Denmark 07 p0124 A75-37846 Airborne windmills - Energy source for
WICES A design parameter for assessing wicking capabilities of heat pipes [AIAA PAPER 74-1266] An investigation of heat-pipe wick characteristics 05 p0012 A75-12914 WIED (HETEOROLOGY) Benefit-cost methodology study with example application of the use of wind generators [NASA-CR-134864] WIED SHERES Radiation cooling of structures with infrared transparent wind screens OR p0167 A75-39407 WIED SHERE Structural analysis of wind turbine rotors for HSF-HASA Hod-O wind power system [HASA-TH-I-3198] OR p0080 H75-17712 WIED TUBBEL DRIVES A generalised analysis of the performance of a variety of drive systems for high Reynolds number, transonic wind tunnels [RAE-TR-73134] WIED TUBBEL TESTS Tornado-type wind energy system a multimegawatt power output unit WIED TUBBEL Wind engines and wind installations [MASA-TT-F-16170] WIED TUBBELS Wind engines and wind installations [MASA-TT-F-16170] WIED TUBBELS Wind data from specific coastal sites [PP-238507/8] WIEDSILLS (WIEDPOWERED MACHINES) Unsteady aerodynamics of variable pitch vertical	Windpower - Look backward, then move forward confidently for electric power generation in rural areas 05 p0014 A75-12997 Prospects for tapping solar energy on a large scale 05 p0015 A75-14014 Considerations regarding a utilization of solar energy thermal, electric and wind energy systems 06 p0050 A75-23510 Other primary energy resources geothermal, tidal, wind, waterwave and glacier energy utilization 06 p0050 A75-23512 Ocean thermal power and windpower systems - Watural solar energy conversion for near-term impact on world energy markets 06 p0060 A75-23712 Utilization of wind energy 07 p0110 A75-30891 Wind power electricity generation 07 p0111 A75-31273 Wind energy utilization prospects 07 p0117 A75-34928 Principles of a composite study involving combined use of solar and wind energy 07 p0122 A75-37160 Generalizations of composite studies involving combined use of wind and solar energy 07 p0122 A75-37161 Energy and Resources - A plan is outlined according to which solar and wind energy would supply Denmark's needs by the year 2050 solar and wind power utilization for Denmark 07 p0124 A75-37846 Airborne windmills - Energy source for communication aerostats
WICRS A design parameter for assessing wicking capabilities of heat pipes [Aliah PAPER 74-1266] An investigation of heat-pipe wick characteristics 05 p0012 A75-12914 WIEDD (HETEOROLOGY) Benefit-cost methodology study with example application of the use of wind generators [BASA-CR-134864] WIEDD SHPECTS Radiation cooling of structures with infrared transparent wind screens WIEDD SHEAR Structural analysis of wind turbine rotors for BSF-HASA Hod-O wind power system [HASA-TR-I3198] WIEDD TUBBLI DRIVES A generalised analysis of the performance of a variety of drive systems for high Reynolds number, transonic wind tunnels [RAE-TR-73134] WIEDD TUBBLI TESTS Tornado-type wind energy system a multimegawatt power output unit WIEDD TUBBLS Wind engines and wind installations [SASA-TT-F-16170] WIEDD TUBBLS Wind engines and wind installations [SASA-TT-F-16170] WIEDD TUBBLS Wind data from specific coastal sites [PD-238507/8] WIEDDRILLS (SUBDPOSERED MACHIES) Unstable (SUBDPOSERED MACHIES)	Windpower - Look backward, then move forward confidently for electric power generation in rural areas 05 p0014 A75-12997 Prospects for tapping solar energy on a large scale 05 p0015 A75-14014 Considerations regarding a utilization of solar energy thermal, electric and wind energy systems 06 p0050 A75-23510 Other primary energy resources geothermal, tidal, wind, waterwave and glacier energy utilization 06 p0050 A75-23512 Ocean thermal power and windpower systems - Watural solar energy conversion for near-term impact on world energy markets 06 p0060 A75-23512 Ocean thermal power and windpower systems - Watural solar energy conversion for near-term impact on world energy markets 07 p0110 A75-30891 Wind power electricity generation 07 p0111 A75-30891 Wind energy utilization prospects 07 p0117 A75-34928 Principles of a composite study involving combined use of solar and wind energy 07 p0122 A75-37160 Generalizations of composite studies involving combined use of wind and solar energy 07 p0122 A75-37161 Energy and Resources - A plan is outlined according to which solar and wind energy would supply Denmark's needs by the year 2050 solar and wind power utilization for Denmark 07 p0124 A75-37846 Airborne windmills - Energy source for
WICES A design parameter for assessing wicking capabilities of heat pipes [AIAA PAPER 74-1266] O5 p0010 A75-11107 An investigation of heat-pipe wick characteristics O5 p0012 A75-12914 WIED (HETEOROLOGY) Benefit-cost methodology study with example application of the use of wind generators [NASA-CR-134864] WIED SPPECTS Radiation cooling of structures with infrared transparent wind screens WIED SHRAE Structural analysis of wind turbine rotors for HSS-HASA Hod-O wind power system [NASA-TH-X-3198] WIED TUBBEL DRIVES A generalised analysis of the performance of a variety of drive systems for high Reynolds number, transonic wind tunnels [RAS-TR-73134] WIED TUBBEL TRETS Tornado-type wind energy system a multimegawatt power output unit WIED TUBBELS WIND TUBBELS WIND GENERAL TRETS WIND WINDCEST HEASURERENT WIND WIND WIND WIND WIND WIND WIND WIND	Windpower - Look backward, then move forward confidently for electric power generation in rural areas Op p0014 A75-12997 Prospects for tapping solar energy on a large scale 05 p0015 A75-14014 Considerations regarding a utilization of solar energy thermal, electric and wind energy systems Oppose A75-23510 Other primary energy resources geothermal, tidal, wind, waterwave and glacier energy utilization Ocean thermal power and windpower systems - Hatural solar energy conversion for near-term impact on world energy markets Of p0050 A75-23512 Ocean thermal power and windpower systems - Hatural solar energy conversion for near-term impact on world energy markets Of p0060 A75-27790 Utilization of wind energy Of p0110 A75-30891 Wind power electricity generation Of p0111 A75-31273 Wind energy utilization prospects Of p0117 A75-34928 Principles of a composite study involving combined use of solar and wind energy Of p0122 A75-37160 Generalizations of composite studies involving combined use of wind and solar energy Of p0122 A75-37161 Energy and Resources - A plan is outlined according to which solar and wind energy would supply Denmark's needs by the year 2050 solar and wind power utilization for Denmark Of p0124 A75-37846 Airborne windmills - Energy source for communication aerostats [AIAA PAPER 75-923] Os p0166 A75-39196
WICKS A design parameter for assessing wicking capabilities of heat pipes [AIAA PAPER 74-1266] O5 p0010 A75-11107 An investigation of heat-pipe wick characteristics 05 p0012 A75-12914 WIDD (HRTEOROLOGY) Benefit-cost methodology study with example application of the use of wind generators [BASA-CR-134864] WIDD SPPECTS Radiation cooling of structures with infrared transparent wind screens O8 p0167 A75-39407 WIDD SHAR Structural analysis of wind turbine rotors for BSF-HASA Hod-O wind power system [HASA-TR-I-3198] O6 p0080 B75-17712 WIDD TUBBL DRIVES A generalised analysis of the performance of a variety of drive systems for high Reynolds number, transonic wind tunnels [RAE-TR-73134] O6 p0073 B75-16572 WIDD TUBBL TRSTS Tornado-type wind energy system	Windpower - Look backward, then move forward confidently for electric power generation in rural areas 05 p0014 A75-12997 Prospects for tapping solar energy on a large scale 05 p0015 A75-14014 Considerations regarding a utilization of solar energy thermal, electric and wind energy systems 06 p0050 A75-23510 Other primary energy resources geothermal, tidal, wind, waterwave and glacier energy utilization 06 p0050 A75-23512 Ocean thermal power and windpower systems - Watural solar energy conversion for near-term impact on world energy markets 06 p0060 A75-23512 Ocean thermal power and windpower systems - Watural solar energy conversion for near-term impact on world energy markets 07 p0110 A75-30891 Wind power electricity generation 07 p0111 A75-30891 Wind energy utilization prospects 07 p0110 A75-30891 Principles of a composite study involving combined use of solar and wind energy 07 p0122 A75-37160 Generalizations of composite studies involving combined use of wind and solar energy 07 p0122 A75-37161 Energy and Resources - A plan is outlined according to which solar and wind energy would supply Denmark's needs by the year 2050 solar and wind power utilization for Denmark 07 p0124 A75-37846 Airborne windmills - Energy source for communication aerostats [AIAA PAPER 75-923] An overview of solar energy applications

SUBJECT INDEX NYORING

	·
Bydrogen as energy storage element in windpower systems	Generation schemes for wind power plants 08 p0169 175-40688
08 p0176 A75-44772 Barnessing wind power in developing countries	High intensity wind belts as massive energy sources 08 p0 172 A75-42532
08 p0191 A75-46009 Wind and solar thermal combinations for space heating	Wind capture and diversion through pneumatic energy recovery with large capacity aerogenerators 08 p0175 175-44762
08 p0192 A75-46010 Tornado-type wind energy system a	Continuous duty solar energy system concepts 08 p0190 175-45993
multimegawatt power output unit 08 p0192 A75-46012	Harnessing wind power in developing countries 08 p0191 175-46009
Plans and status of the WASA-Lewis Research Center wind energy project	Tornado-type wind energy system a multimegawatt power output unit
08 p0197 A75-47802 The economics of using wind power for electricity supply in the Netherlands and for water supply	08 p0192 A75-46012 Electrical generation by wind power . 08 p0193 A75-46024
on Curacao [HASA-TT-P-15982] 05 p0024 H75-10587 Wind energy developments in the 20th century	Blectrical generating equipment and electric utility requirements for high-power wind generator systems
[MASA-TH-X-71634] 05 p0033 M75-13380 Wind power projects of the French electrical authority	08 p0193 A75-46025 Wind power system optimization 08 p0193 A75-46026
[MASA-TT-F-16057] 05 p0033 H75-13384 Exploiting wind power for the production of	Wind and solar power engineering [AD-786844] 05 p0039 H75-15168
electricity windwill utilization in Denmark [WASA-TT-P-16058] 05 p0033 N75-13385	Wind motors: Theory, construction, assembly and use in drawing water and generating electricity
Wind energy [GPO-37-390] 05 p0033 H75-13387 Report of the Wind Power Committee a	[HASA-TT-P-16201] 06 p0093 #75-19821 Applied aerodynamics of wind power machines rotor blades (turbomachinery)
feasibility analysis of the use of wind for a major energy source	[PB-238595/3] 07 p0133 M75-22669 Development of an electrical generator and
[HASA-TT-F-16062] 05 p0039 N75-15154 Wind power potential of Alaska. Part 1: Surface	electrolysis cell for a wind energy conversion system
wind data from specific coastal sites [PB-238507/8] 06 p0105 N75-20885	[PB-239272/8] 07 p0150 w75-25315 The 100 kW experimental wind turbine generator
Plans and status of the NASA-Lewis Research Center wind energy project	project [NASA-TH-I-71758] 08 p0202 m75-29546
[HASA-TH-X-71701] 07 p0128 H75-21795 Wind power installations. Present condition and	Preliminary results of the large experimental wind turbine phase of the national wind energy program
possible lines of development [NASA-TT-F-16204] 07 p0128 N75-21796	[HASA-TH-X-71796] 08 p0210 #75-32594 WINDPOWERED PUMPS
Wind engines and wind installations [MASA-TT-F-16170] 07 p0135 N75-22904	Wind motors: Theory, construction, assembly and use in drawing water and generating electricity
Oceanic and atmospheric energy sources 07 pol39 H75-24101 Proceedings of 5th annual symposium: Energy	[NASA-TT-F-16201] 06 p0093 B75-19821 Wind engines and wind installations [NASA-TT-F-16170] 07 p0135 B75-22904
Research and Development solar energy, windpower utilization, thermonuclear power	WORK FUNCTIONS Electrodes for thermionic energy conversion
generation [AD-A007799] 07 p0144 H75-24142	08 p0 188 175-45957 Collector work function improvements and the
Development of an electrical generator and electrolysis cell for a wind energy conversion	development of low temperature thermionic converters
system [PB-239272/8] 07 p0150 N75-25315 Summary of NASA Lewis Research Center solar	08 p0188 175-45960 WORKING PLUIDS Dynamic response of solar heat storage systems
heating and cooling and wind energy programs [NASA-TM-X-71745] 07 p0154 N75-26497	[ASHE PAPER 74-WA/HT-22] 05 p0018 a75-16867 Stirling engines - Capabilities and prospects
The 100 kW experimental wind turbine generator project	06 p00 48 A75-23237 Transverse header heat pipe
[NASA-TM-X-71758] 08 p0202 N75-29546 Preliminary results of the large experimental wind	[AIAA PAPER 75-656] 07 p0114 A75-32914 Measurements of the performance of an
turbine phase of the national wind energy program [NASA-TH-X-71796] 08 p0210 N75-32594	electrohydrodynamic heat pipe [AIAA PAPER 75-659] 07 p0114 A75-32917
WINDPOWERED GENERATORS A planning methodology for the analysis and design of wind-power systems	Compatibility and reliability of heat pipe materials [ATAA PAPER 75-660] 07 p0114 A75-32918
05 p0004 A75-10517 A wind energy conversion system based on the	Analysis of gas dissociation solar thermal power system 07 pol15 A75-33974
tracked-vehicle airfoil concept 05 p0004 A75-10518	Survey on power fluid for thermal power from low temperature and small temperature difference
Windpower - Look backward, then move forward confidently for electric power generation in rural areas	heat source 07 p0119 A75-36173 Optimum properties of working fluids for solar
Wind energy developments in the 20th control areas	powered heat pumps 08 p0185 A75-45937
05 p0020 A75-17503 Utilization of wind energy 07 p0110 A75-30891	High temperature heat pipes for energy conservation thermal waste recovery system
Wind power electricity generation 07 p0111 A75-31273	. 08 p0194 &75-46042 Application of heat pipes to solar collectors 08 p0195 A75-46045
Bconomic and technical aspects of wind generation systems	WYONING Preliminary evaluation of underground coal
07 p0116 A75-34533 Summary of BASA-Lewis Research Center solar heating and cooling and wind energy programs	gasification at Hanna, Wyoming [BH-TPR-82] 05 p0025 N75-10599
07 p0123 A75-37240 The potential of natural energy sources	
08 p0165 A75-38865	

SUBJECT INDEX ZOBE BELTING

Z

Solar energy concentrator system for crystal growth and zone refining in space [NASA-CR-120623] 06 p0086 N75-18719

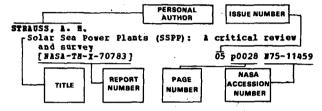
a-126

PERSONAL AUTHOR INDEX

ENERGY/A Continuing Bibliography (Issue 8)

FEBRUARY 1976

Typical Personal Author Index Listing



Listings in this index are arranged alphabetically by personal author. The title of the document provides the user with a brief description of the subject matter. The report number helps to indicate the type of document listed (e.g., NASA report, translation, NASA contractor report). The issue, page and accession numbers are located beneath and to the right of the title, e.g., 05 p0028 N75-11459. Under any one author's name the accession numbers are arranged in sequence with the IAA accession numbers appearing first.

AAMOT, H. W. C. Hanagement of power plant waste heat in cold regions [AD-A003217] Q6 p0104 B75-20881 ABBASÌ, S. Energy policy and resource management [GPO-33-634] 07 07 p0149 N75-25300 ABBIN, J. P., JB.
Sizing of focused solar collector fields with specified collector tube inlet temperature
[SLA-74-5288] 06 p0094 N75-19832 [SLA-74-5288] ABDUAZIZOV, A. Fabricating paraboloidal high-temperature solar concentrators from mollified sectors 07 p0122 175-37166
Investigation of a solar concentrator with hexahedral glass facets 08 p0180 A75-45061 A nearly perfect solar energy concentrator made up of tapered mirror facets with constant transverse curvature 08 p0180 A75-45062 Phosphoric acid fuel cell stack development 08 p0186 A75-45943 ABHAT. A. Investigation of bubble formation in arteries of gas-controlled heat pipes [AIAA PAPER 75-655] ABIDOV, T. Z. 07 p0114 A75-32913 Design of a tubular heat collector for a solar power installation with a parabolocylindric concentrator ABRAMS, M. J.
The detection of geothermal areas from Skylab thermal data

Design of a tubular heat collector for a solar power installation with a parabolocylindric concentrator

ABRAMS, M. J.

The detection of geothermal areas from Skylab thermal data

[MASA-CE-143133]

O7 p0158 M75-27540

ACKERHAM, J. P.

Status and outlook for energy conversion via fuel cells

[CONF-740462-1]

CONF-740462-1]

Electricity conservation measures in the commercial sector: The Los Angeles experience

[R-1592-FEA]

DAMS, D.

Interdisciplinary study of atmospheric processes and constituents of the mid-Atlantic coastal region. Attachment 3: Data set for Craney Island oil refinery installation experiment

[BASA-CE-142823]

O7 p0141 M75-24121

Interdisciplinary study of atmospheric processes and constituents of the mid-Atlantic coastal region. Attachment 4: Data set for background investigation of atmospheric constituents for Nansemond River site [NASA-CR-142821] 07 p0141 N75-24122 ADAMS, R. G.
In situ oil shale: A cost sensitivity analysis 06 p0087 N75-18727 [SAND-74-0146] ADAMS, R. G. Component design considerations for gas turbine HTGR power plant
[ASEE PAPER 75-GT-67] 07 p0116 A75-34620 APANASEV, IU. V.
Laser thermonuclear fusion 07 p0112 A75-32617 AIKENS, D. A. Electrochemical power sources [AD-A001610] 06 p0094 N75-19836 AKIYAHA, S. Superconducting synchronous machine 06 p0061 A75-27967 AL-JUBAILT, F. R.
Investigations of the factors affecting the performance of a rotating heat pipe
07 p0120 175-36357 ALAYOTDIBOV, D. M.
Investigation of a solar concentrator with hexahedral glass facets 08 p0180 A75-45061 ALEREZA. T. Assessment of Rankine cycle for potential application to solar-powered cooling of buildings
[ASME PAPER 74-WA/SOL-7] 05 p0019 A75-16890
Assessment of the Rankine cycle for potential
application to solar powered cooling of buildings
[PB-238069/9] 06 p0089 N75-18755 [PB-238069/9] ALEXANDER, A. D., III
United States transportation fuel economics (1975) - 1995) [NASA-TM-X-3197] 06 b0107 W75-21154 ALPP. R. K. Pumped air storage for electric power generation 05 p0013 A75-12990 ALFORD, W. J., JR.
Puture long-range transports - Prospects for
improved fuel efficiency [AIAA PAPER 75-316] 06 p0047 A
Puture long-range transports: Prospects for
improved fuel efficiency 06 p0047 A75-22514 [RASA-TH-X-72659] 06 p0079 N75-17339 ALICE, J. A., JE. Energy from agriculture 08 p0191 A75-46000 Effective utilization of solar energy to produce clean fuel [PB-233956/2] 05 p0026 N75-10605 ALIEV, N. P. Testing of a photoelectric generator in a mountainous region of the Azerbaidzhan SSR 06 p0057 A75-26714 Investigation of the electrical and temperature characteristics of a silicon photoelectric converter under natural conditions 07 p0116 A75-34314 Photoelectric generator testing in the Azerbaidzhan SSR mountains 07 p0122 A75-37165 ALIMOV. A. K.

Pabricating paraboloidal high-temperature solar concentrators from mollified sectors
07 p0122 A75-37166
Investigation of a solar concentrator with

hexahedral glass facets

08 p0180 A75-45061

arraw n	AMTROGAT D
Technology and current practices for processing, transferring and storing liquefied natural gas	AHINGUAL, D. The effects of irradiation on high-efficiency silicon solar cells
[PB-241048/8] 08 p0202 N75-29271 ALLEW, A. E.	06 p0051 A75-2419 High efficiency silicon solar cells
Energy storage undergound	06 p0052 A75-2421
05 p0013 A75-12989	The effect of sunshine testing on terrestrial
A process for cleaning and removal of sulfur compounds from 1cw Btu gases	solar cell system components 07 p0123 A75-3739
[PB-236522/9] 06 p0065 #75-15768 ALLEN, G. W.	The effect of sunshine testing on terrestrial solar cell system components
The bydrogen sulfide emissions abatement program at the Geysers Geothermal Power Plant	[NASA-TH-X-71722] 07 p0140 N75-24109
06 p0102 N75-20859	Heat Pipe Symposium/Workshop [PB-236008/9] 05 p0035 H75-14094
Benthal decomposition of adsorbed octadecane 06 p0106 N75-20891	ABBAR, M. Pollution-free electrochemical power generation
ALLEM, R. Proceedings of the Solar Heating and Cooling for	from low grade coal [PB-236162/4] 06 p0070 N75-16109
Buildings Workshop. Part 2: Panel sessions, March 23	ANDERSON, B. An ecologic solar heated and cooled home
[PB-235483/5] 06 p0069 #75-16095	.07 p0118 a75-3493
Optimum properties of working fluids for solar powered heat pumps	Sea thermal power as a hydrogen and methanol generator
08 p0185 A75-45937	08 p0175 A75-44763
ALLER, P. F. A modular heat source for curium-244 and plutonium-238	Heat exchangers for sea solar power plants [PB-239369/2] 07 p0150 B75-25319 ABDERSON, K. E.
05 p0002 A75-10497	Development of lithium/sulfur cells for
ALLISON, H. J. Solar energy conversion and storage systems for the future .	application to electric automobiles [COMF-740805-7] 06 p0094 N75-19829 ANDERSON, L. C.
05 p0013 A75-12988 Prospects for tapping solar energy on a large scale	Puel gas production from solid waste [PB-238068/1] 06 p0095 N75-1984
Boonomic and technical aspects of wind generation	ANDRESON, R. L. Glass-Si heterojunction solar cells
systems 07 p0116 175-34533	[PB-239282/7] 07 p0145 h75-24156
Wind energy utilization prospects 07 p0117 A75-34928	Study of the application of HTGR to a petroleum refinery petrochemical complex
Energy storage by high-pressure, moderate-temperature electrolytic techniques	[CONF-741144-1] 07 p0142 N75-24126
08 p0 185 A75-45931 Development of an electrical generator and	Temperature effects in Schottky-barrier silicon solar cells
electrolysis cell for a wind energy conversion	07 p0115 A75-34175
system [PB-239272/8] 07 p0150 H75-25315	Design considerations in Schottky solar cells 08 p0188 A75-45962
ALLISON, J. The COMSAT non-reflective silicon solar cell - A	AMDRUS, S. Development and evaluation of a Stirling-Cycle
second generation improved cell 06 p0053 A75-24245	energy conversion system [PB-239086/2] 07 p0136 B75-22918
ALLISON, J. P. A comparison of the COMSAT wielet and	AHTONBLLI, A. Beneficial uses of waste heat
non-reflective cells 08 p0192 A75-46015	[RT/PROT-(74) 10] 06 p0068 N75-16091
ALLRED, E. R.	Contribution to the improvement of the regulating
Use of thermally enriched water for growing field crops in Minnesota [PB-240112] 07 p0159 N75-27549	process of ignition controlled engines [PUBL-165] 08 p0206 N75-31285 APFRL, J. H.
ALTHAB, H. Conservation and better utilization of electric	Optical coatings for collection and conservation
power by means of thermal energy storage and	or solar energy 08 p0181 A75-45512
solar heating [PB-239395/7] 07 p0157 N75-26521	APPELL, H. R. Conversion of cellulosic wastes to oil
Conservation and better utilization of electric power by means of thermal energy storage and	[PB-240839/1] 07 p0161 N75-27572
solar heating, executive summary [PB-239394/0] 07 p0157 E75-26522	Bfficiencies of electrolytic and thermochemical hydrogen production
ALTSBINER, J. H. Nuclear propulsion technology transfer to energy	06 p0045 A75-20300
systems	Energy and security: Implications for American policy
[AIAA PAPER 74-1072] 05 p0001 A75-10264 ALYAUTDIMOV, R. A. Plantonia and lof the R-25 derice	[AD-785084] 05 p0032 N75-12857
Electronic model of the U-25 device 06 p0081 E75-17794	ABBATOV, G. A. The USA: The scientific and technical revolution
AMATO, R. V. Remote sensing applied to mine subsidence -	and trends in foreign policy [HASA-TT-P-16102] 06 p0096 N75-20160
Experience in Pennsylvania and the Hidwest 07 p0121 A75-36809	ARDA, U. A study of energy systems command, control and
ABAWD, A. M. Procedure for preparation for shipment of natural	communication for energy crisis management [PB-239290/0] 07 p0136 H75-22927
gas storage vessel [NASA-CR-141455] . 05 p0036 N75-14135 AHBS, L. L.	ARDEMA, H. D. Conceptual design of reduced energy transports [AIAA PAPER 75-303] 06 p0047 A75-22508
Ocean thermal difference power plant turbine design (PB-239371/8) 07 p0150 H75-25318	[2440 4412 10 100] 00 povi 8/3 22300

PERSONAL AUTHOR INDEX DAKER, B. S.

ARIPOV. U. A.

Pull-scale tests of 'photovolt' high-voltage
photocells at high light flux levels
07 n0122 k Investigation of the effect of boiler design and finite thermal response of solar water heaters on efficiency photocells at high light flux levels
07 p0122 A75-37162
Development of solar engineering in the USSR
[AD-784708]
05 p0025 B75-10597
Pull-scale testing of high-voltage photocells of fotovolt type at elevated light flux levels
08 p0210 B75-32590 08 p0170 175-41541 AWERBUCH, L. Advanced heat transfer methods for geothermal power applications 08 p0185 A75-45934 AXTHABB, R. C. ARRSTRONG, J. E.
Plausibility of a restricted energy use scenario
[COM-75-10749/0] 08 p0213 E75-33507 Environmental impact of a geothermal power plant 06 p0049 A75-23291 Utilization of plasma exhaust energy for fuel ARADT, R.
The COMSAT non-reflective silicon solar cell - A production [COO-3028-7] 05 p0028 N75-11465 second generation improved cell AYER, F. A.
Symposium proceedings: Environmental Aspects of 06 p0053 A75-24245 Fuel Conversion Technology A comparison of the COMSAT violet and [PB-238304/0] 07 p0145 N75-24179 non-reflective cells 08 p0192 A75-46015 ARROLD, H. D. Evaluation of thermal methods for recovery of BABA, Y. viscous oils in Missouri and Kansas [PB-237831/3] 06 Operating experiences with terrestrial solar battery systems in Japan ASAKURA, S. 05 b0005 A75-10531 Water-splitting system synthesized by photochemical and thermoelectric utilizations of BABANIN, V. I. Influence of the geometrical development of the cathode surface on the specific power of a thermionic converter with surface ionization solar energy 08 p0190 A75-45994 ASCHOPP, V.
Hission and organization of the DPVLR: Two years
of integrated society of German aeronautical and 08 p0173 A75-43860 BABEL, E. W. Material considerations involved in solar energy space flight research conversion [NASA-TT-F-16086] 05 p0039
ASSWORTH, B. A.
Low Btu gasification high temperature-low 05 p0035 N75-13882 06 p0047 A75-22522 BABIN, V. P. Controlling the response of thermoelements that temperature B2S removal comparison effect on overall thermal efficiency in a combined cycle generate electricity 07 p0121 A75-37154 Optimization of the operating conditions of a combined generator-cooler thermoelement power plant [PB-235780/4] 06 p0072 N75-16125 ATALLAH, S. 07 p0121 A75-37155 BACHER, K. Technology and current practices for processing, Conclosy and curies Francisco in atural gas transferring and storing liquefied natural gas tpx-241048/81 08 p0202 B75-29271 Putting the sun to work: A history and directory of currently available solar energy applications [PB-238189/5] 07 p0129 N75-21810 ATCHISON, K. Nuclear system that burns its own wastes shows BACHNER, P. J. promise Transparent heat-mirror films of TiO2/Ag/TiO2 for solar energy collection and radiation insulation 05 p0015 A75-16378 [NASA-NEWS-RELRASE-75-44] 06 p0085 N75-18716 ATBIUS, K. L. Hission applications of electric propulsion
[AIAA PAPER 74-1085] 05 p0010 BACKUS, C. B. 05 p0010 A75-11284 Solar-energy conversion at high solar intensities 08 p0181 A75-45514
Terrestrial photovoltaic power systems with ATSEL A.
Investigation of the technology and performance of sunlight concentration
[PB-236180/6] 06 p0072:
Terrestrial photovoltaic power systems with
sunlight concentration lithium doped solar cells 06 p0072 N75-16120 06 p0052 A75-24219 AUSTIN, A. L A comparison of methods for electric power generation from geothermal hot water deposits [ASME PAPER 74-WA/ENER-10] 05 p0016 A75-16841 US energy flow charts for 1950, 1960, 1970, 1980, 06 p0105 N75-20886 [PB-238582/1] Terrestrial photovoltaic power systems with sunlight concentration [PB-238506/0] 07 p0143 N 1985, and 1990 [UCRL-51487] 07 p0143 N75-24136 05 p0024 N75-10593 OCLEY, P. C.
Stratigraphy, sedimentology and oil and gas
geology of the Lower Cretaceous in central Alberta
07 p0137 N75-22961 BADGLEY, P. C. The total flow concept for geothermal energy conversion 06 p0100 #75-20846 AVERY, W. H.
Tropical ocean thermal power plants and potential BAIBUTARY, K. B. Method for calculating solar radiation for semicylindrical collectors products [AIAA PAPER 75-617] AVEZOV, B. B. 06 p0064 A75-29116 06 p0057 A75-26718 No. 120V, B. B.
Determination of some thermophysical characteristics of a solar-type pebble accumulator 07 points A75-34317 BAILIE, R. C. Application of thermodynamic and material- and energy-balance calculations to gasification processes Solar heating and cooling of buildings using heat pumps /Brief survey/ 06 p0055 A75-24785 BAIRAMOV, R.
Theoretical determination of the temperature in a .07 p0116 A75-34321 Study of the influence of container design and the solar water heater /steady state/ 07 p0112 A75-31513 thermal inertness of solar water heaters on their efficiency Theoretical research on the operation of a solar water heater and comparison with experimental dat 07 p0119 A75-36018 Determination of some thermophysical properties of 07 p0112 A75-31515 BAKER, B. S.
Milliwatt fuel cell system for sensors
05 p pebble-type solar heat accumulators 08 p0170 A75-41530 Use of solar heat pumps for heating and air conditioning - A brief survey 05 p0008 A75-10565 60 watt hydride-air fuel cell system

08 p0170 A75-41534

05 p0008 A75-10567

Phosphoric acid fuel cell stack development 08 p0186 A75-45943

· Electrolyte for hydrocarbon air fuel cells [AD-A007220] 07 p0136 The evaluation of surface geometry modification to improve the directional selectivity of solar 07 p0136 #75-22917 energy collectors [PB-238509/4] BAPTIST, O. C. BARBR, J. W. A city invests in its future 07 p0130 #75-21822 06 p0102 N75-20862 Solvent stimulation tests in two California Oxides of nitrogen control techniques for appliance conversion to hydrogen fuel 05 p0006 A75-10541 [PB-237849/5] 06 p0090 N75-18761 BARAKER, A. K. Petroleum in Alabama BAKER. W. B A practical model law for chemical explosive [PB-237353/8] 06 p0085 875-18442 fracture of oil shale BARAGHA, C. R. V-grooved silicon solar cells 06 p0078 ¥75-17023 07 p0123 A75-37397 Effects of high doping levels on silicon solar BARIROV, M. IA.
Testing of a photoelectric generator in a mountainous region of the Azerbaidzhan SSR cell performance 06 p0057 A75-26714 07 p0123 A75-37403 Investigation of the electrical and temperature characteristics of a silicon photoelectric converter under natural conditions V-grooved silicon solar cells (NASA-TH-X-71715) 07 p0141 N75-24119 BARBER. R. Cooling with the sun's heat - Design considerations and test data for a Rankine Cycle 07 p0116 A75-34314 Photoelectric generator testing in the Azerbaidzhan SSR mountains prototype 07 p0122 A75-37165 08 p0167 A75-39409 BAKSTAD, P. BARBER, R. E. Systems aspects of ocean thermal energy conversion
[AIAN PAPER 75-615] 06 p0062 A75-28593 A prototype solar powered, Rankine Cycle system providing residential air conditioning and BALASUBRAHABLAH, H.
Solar thermal absorption heat pump breakeven electricity 05 p0004 A75-10523 coefficient of performance [ASME PAPER 74-WA/ENER-2] Potential of Bankine engines to produce power from 05 p0015 A75-16834 waste heat streams BALCOMB, J. D. 05 p0006 A75-10547 Solar air conditioning systems using Rankine power cycles - Design and test results of prototype Nuclear propulsion technology transfer to energy systems 05 p0001 &75-10264 [AIAA PAPER 74-1072] three ton unit High-temperature nuclear reactors as an energy source for hydrogen production 08 p0175 A75-44758 Independent energy systems for better efficiency 05 p0006 A75-10549 Control system design and simulation for solar heated structures [LA-UR-74-1085] 06 p0082 N75-17813 Producing SMG by hydrogasifying in situ crude BALDWIN, A. R. shale oil Sirty minute thermal battery: A feasibility study [SLA-73-5888] 06 p0077 #75-16994 08 p0201 N75-28548 [PB-240841/7] BARLOW, B. W. R. Animal waste conversion systems based on thermal Study of potential problems and optimum opportunities in retrofitting industrial discharge [PB-240113] 07 p0159 N75-27548 processes to low and intermediate energy gas BARBERT, H. from coal Energy supply in a closed cycle 06 p0088 N75-18739 06 p0049 A75-23503 [PB-237116/9] Thermolysis of water for the generation of hydrogen 06 p0049 A75-23504 BALZANI, V. Solar energy conversion by water photodissociation 08 p0173 A75-43510 Nuclear water splitting and high temperature BANANN, D. E.
The collaborative study of EPA methods, 5, 6, and
7 in fossil fuel-fired steam generators reactors 08 p0175 A75-44757 BARNETT, W. J. 06 p0091 N75-18788 [PB-237695/2] Cost effective designing for the economic RTG BAHDY, A.

Interdisciplinary study of atmospheric processes and constituents of the mid-Atlantic coastal region. Attachment 3: Data set for Craney Island oil refinery installation experiment [MASA-CR-142823]

O7 p0141 H75-24121 05 p0003 A75-10507 The economics of the production of liquid fuel and fertilizer by the fixation of atmospheric carbon and nitrogen using nuclear power 08 p0191 A75-46001 BANDY, E. C. BARR, W. L. Interdisciplinary study of atmospheric processes and constituents of the mid-Atlantic coastal region. Attachment 4: Data set for background DART: A simulation code for a direct energy converter for fusion reactors [UCRL-51557] 05 p0043 N75-15462 investigation of atmospheric constituents for Direct conversion of plasma energy to electricity Nansemond River site [NASA-CR-142821] for mirror fusion reactors [UCRL-76051] 07 p0141 N75-24122 07 p0129 N75-21800 BANKSTON, C. A. BASE, T. B. The effect of atmospheric turbulence on windmill The initiatives of the Los Alamos Scientific performance Laboratory in the transfer of a new excavation 08 p0174 A75-44756 technology 06 p0079 N75-17203 Electronic model of the U-25 device BAUDEROT, R. B. 06 p0081 N75-17794 Trapezoidal grooves as moderately concentrating BASIULIS, A.

Compatibility and reliability of heat pipe materials

[AIAA PAPER 75-660] 07 p0114 A75-32918

High temperature heat pipes for energy conservation

08 p0194 A75-46042 solar energy collectors
[AIAA PAPER 75-738] 07 p0113 A75-32860 Moderately concentrating flat-plate solar energy collectors FASHE PAPER 75-HT-541 08 p0196 A75-47526 The evaluation of surface geometry modification to improve the directional selectivity of solar An evaluation of oceanographic and socioeconomic energy collectors [PB-236412/3] aspects of a nearshore ocean thermal energy conversion pilot plant in subtropical Hawaiian 06 p0083 N75-17830

waters [PB-242167/5]

08 p0213 #75-33509

system

BATTLES, J. E. BELL, W. P. Development of advanced fuel cell system, phase 2
[NASA-CR-134721] 06 p0067 N75-16084
Development of advanced fuel cell system, phase 3
[NASA-CR-134818] 07 p0154 N75-26496 Development of high specific energy batteries for electric vehicles [ANL-8058] 06 p0076 N75-16990 BAUBR, D. C. Pive year program rlanning document for end use energy conservation, research, development, and demonstration BELLER, B.
Applications of fusion power technology to the chemical industry [PB-240406/9] 05 p0029 N75-11730 07 p0152 N75-25331 [BNL-18815] Survey of applications of fusion power technology to the chemical and material processing industry [BNL-18866] 05 p0031 N75-12443 BAUER, F. Progress of ISL research on energy conversion in ferroelectric ceramics of the type Pb(ZrLxTix)03 [ISL-29/74] 08 p0208 N75-31910 Energy systems analysis and technology assessment program [BNL-18984] BAUGHMAN, M. L. Energy systems - Hodeling and policy analysis 06 p0055 A75-24750 06 p0094 #75-19831 BENFORD, J. Interfuel substitution in the consumption of energy in the United States. Part 1: Residential and commercial sector Plectronbeam heating for fusion 07 p0120 A75-36295 BENNETT, J. A.
Evaluation of advanced lift concepts and fuel [PB-234536/1] 05 p0040 N75-15178 Evaluation of advanced lift concepts and luck
conservative short-haul aircraft, volume 1
[NASA-CR-137525] 06 p0096 N75-20291
Evaluation of advanced lift concepts and fuel
conservative short-haul aircraft, volume 2
[NASA-CR-137526] 06 p0097 N75-20292 Energy system modeling-interfuel competition [PB-239292/6] 07 p0,143 N [PB-239292/6] 07 P0,143 N75-24140
The future of the US nuclear energy industry
[PB-242164/2] 08 p0214 N75-33511 BAUGHT, J. Solar energy storage within the absorption cycle
[ASRE PAPER 74-WA/HT-18] 05 p0017 A75-16864 BENBETT, L. L. Nuclear reactor process heat capabilities, potential, and economics Energy and the environment in Baden-Wuerttemberg [CONP-741032-1] 07 p0131 #75-22112 BERTZ, C. B.

The role of computers in future propulsion controls

07 p0137 N75-23582 [KFK-1966-UF] BAYLISS, B. P. 05 p0030 N75-12439 Combining total energy and energy industrial center concepts to increase utilization BERGER, B. J. Environmental aspects of methanol as vehicular efficiency of geothermal energy fuel: Health and environmental effects
[UCRL-76076] 06 p009 06 p0102 N75-20860 BBACH, R. L.
At-sea testing of a high seas oil recovery system
[AD-A006938] 07 p0136 N75-22953 06 p0095 N75-19867 BERGMAN, P. D. Conceptual design and economics of an MHD pilot BEACHLEY, N. H. plant Increased fuel economy in transportation systems 08 p0189 A75-45974 BERRARD, J.

The effects of irradiation on high-efficiency by use of energy management. Volume 1: General results and discussion [PB-240220/4] 07 p0163 N75-27970 silicon solar cells BEALE, W. T. 06 p0051 A75-24199 BERNATOWICZ, D. T.
Summary of high efficiency silicon solar cell
meeting held at NASA-Lewis A 100 watt Stirling electric generator for solar or solid fuel heat sources 08 p0192 A75-46014 [NASA-TH-X-71729] 07 p0138 N75-23681 Pusion power by magnetic confinement - Plans and the associated need for nuclear engineers BRRNIBRE, N.

The technology of the solar generator on the Symphonic satellite 08 p0 170 A75-41433 DCTR power supply and energy storage review meeting [WASH-1310] 05 p0031 N75-12445 06 p0053 A75-24237 BESSLER, W. [WASH-1310] BECK, E. J. Study on parameter variations for solar powered lithium bromide absorption cooling Ocean thermal gradient hydraulic power plant 07 p0124 A75-37849 08 p0186 A75-45938 Heat transfer design and proof tests of a radioisotope thermoelectric generator [AD-A002218] 06 p009 BEVENSEE, R. M.
Three-dimensional subsurface delineation via a 06 .p0092 N75-19608 novel method for determining the subsurface electrical profile
[UCRL-51685] 07 p

BEVERLY, W. D.
Glass solar heat collector development
[AIAA PAPER 75-740] 07 p BECKER, P. B. Progress in development of auxiliary MHD power plant components at Avco Everett Research 07 p0127 #75-21781 Laboratory, Inc [ASME PAPER 74-WA/ENER-6] 05 p0016 A75-16838 07 p0115 A75-33758 High temperature air preheaters for open cycle MHD energy conversion systems
[AICHE PAPER 16] 08 p0196 A75-4751 BRYCHOK, M. R.
Process and environmental technology for producing 08 p0196 A75-47512 SNG and liquid fuels [PB-242774/8] BECKELE, W. A.
Simulation of a solar heating and cooling system
06 p0048 A75-2 08 p0212 N75-33491 BEZAUDUM, MR.
Analysis of different systems concerning the
energy distribution on board a satellite
[IAP PAPER 74-084] 05 p0014 A 06 p0048 A75-23018 **Hodeling** of the CSU heating/cooling system 07 p0109 A75-29473 05 p0014 A75-13716 BBZLER, P.
Synthetic fuels from fusion reactors
06 p0106 #75-21098 A method of simulation of solar processes and its application 07 p0109 A75-29474 BHUTANI, J.

An analysis of constraints on increased coal production Hodeling of solar heating and air conditioning
[PB-239189/4] 07 p0136 N75-22926 nethod of simulation of solar processes and its [PB-240613/0] 07 p0157 N75-26525 BIANCARDI, F. R.
Applications of plasma core reactors to terrestrial energy systems
[AIAA PAPER 74-1074] 05 p0 application . 07 p0109 A75-29474 BELIKOV, A. G. Energy characteristics of coaxial plasma source [AD-787419] 06 p0073 B75-05 p0010 A75-11281 Design and operation of a solar-powered turbocompressor air-conditioning and heating 06 p0073 #75-16368

07 p0116 A75-34620

Component design considerations for gas turbine

HTGR power plant
[ASSE PAPER 75-GT-67]

08 p0186 A75-45939

Peasibility demonstration of a solar powered	BLASKO, D. P.
turbocompressor air conditioning and heating system	Hatural gas fields, Cook Inlet Basin, Alaska [PB-235767/1] 06 p0066 E75-16071
[PB-238570/6] 07 p0130 N75-21816	BLASKOWSKI, H. J.
BIRMERT, W. B. Application of heat pipes to solar collectors	Low-BTU gasification of coal for electric power generation
08 p0 195 A75-46045	[PB-236972/6] 06 p0088 H75-18740
Snow and ice removal from pavements using stored earth energy	BLAUGHER, R. B. A high-speed superconducting generator
[PB-240623/9] 07 p0162 N75-27581	06 p0060 A75-27960
BIRESTOCK, D. Conceptual design and economics of an MHD pilot	BLECHER, W. A. Design and operation of a solew-powered
plant	turbocompressor air-condit ing and heating
08 p0189 A75-45974 BIGGS, F.	system 08 p0186 A75-45939
Plywheel energy systems	BLICKSHAN, L. R.
[SAHD-74-0113] 07 p0129 N75-21802 BILGER, B.	Energy conservation: A case tudy for a large manufacturing plant
Solar radiation heat transfer to high temperature	[PB-239302/3] 07 p0151 B75-25323
heat carriers [ASHE PAPER 74-WA/HT-14] 05 p0017 A75-16861	BLOCKWICK, T. W. At-sea testing of a high seas oil recovery system
BILLERBECK, W. J. Solar cell modules for lightweight solar arrays	[AD-A006938] 07 p0136 #75-22953 BLOKHNIN, A.
06 p0057 A75-26068	Energy from the earth's depths
BILLHAB, K. W. Laser energy conversion	[BLL-M-23516-(5828.4F)] 06 p0074 M75-16968 BLOWD, E.
07 p0125 A75-38474	Solar thermal conversion mission analysis
BIRD, D. K. Geophysical, geochemical, and geological	[AIAA PAPER 75-619] 06 p0064 A75-29117 BLOOMFIELD, H. S.
investigations of the Dunes geothernal system,	The NASA-Lewis/BRDA Solar Heating and Cooling
Imperial Valley, California [IGPP-UCR-74-31] 06 p0098 N75-20836	Technology Program 08 p0197 A75-47803
BISHOP, E. H.	The NASA-Lewis/ERDA solar heating and cooling
A wind energy conversion system based on the tracked-vehicle airfoil concept	technology program [NASA-TM-X-71800] 08 p0210 N75-32592
05 p0004 A75-10518	BLOW, S. J.
BLACK, B. B. Advanced subsonic transports - A challenge for the	Energy: An annotated bibliography [NASA-TM-X-66766] 07 p0159 N75-27557
1990's [AIAA PAPER 75-304] 06 p0049 A75-23251	Bnergy: An annotated bibliography [HASA-TM-X-72433] 07 p0159 N75-27558
BLACKETTER, D. O.	BOCKRIS, J. O'M.
A wind energy conversion system based on the tracked-vehicle airfoil concept	Massive production of hydrogen by a thermo-electrochemical method
05 p0004 A75-10518	08 p0172 A75-42531
BLACKWELL, D. D. A brief description of geological and geophysical	High intensity wind belts as massive energy sources 08 p0172 A75-42532
exploration of the Marysville geothermal area	Is massive solar energy conversion a practical
06 p0099 N75-20839 BLACKWOOD, T. R.	prospect 08 p0174 A75-44752
Bfficiencies in power generation	On methods for the large-scale production of
[PB-234160/0] 05 p0034 N75-13398 BLAIS, B.	hydrogen from water 08 p0176 A75-44773
Interdisciplinary study of atmospheric processes and constituents of the mid-Atlantic coastal	BORER, K. W. Solar one - The Delaware solar house and results
region. Attachment 3: Data set for Craney	obtained during the first year of operation
Island oil refinery installation experiment [NASA-CR-142823] 07 p0141 N75-24121	06 p0054 A75-24254 Solar electric and thermal conversion system in
Interdisciplinary study of atmospheric processes	close proximity to the consumer
and constituents of the mid-Atlantic coastal region. Attachment 4: Data set for background	[AIAA PAPER 75-628] 06 p0062 A75-28597 Solar One, two years experience
investigation of atmospheric constituents for	08 p0184 A75-45922 CdS/Cu2S solar cells, their potential and
Nansemond River site [HASA-CR-142821] 07 p0141 N75-24122	limitations
BLAKE, F. A. Solar/hydroelectric combined power systems	08 p0188 A75-45961
06 p0059 A75-27786	Methanol/air acidic fuel cell system
100 NWe solar power plant design configuration and performance	05 p0008 A75-10566
[AIAA PAPER 75-623] 06 p0062 A75-28595	Direct solar energy conversion for large scale
Solar power system and component research program [PB-236159/0] 05 p0037 N75-14280	terrestial use [PB-241007/4] 08 p0201 B75-28545
Solar power system and component research program	BORRI, G.
(PB-238642/3) 07 p0135 N75-22915 Solar power system and component research program	Beneficial uses of waste heat [RT/PROT-(74)10] 06 p0068 B75-16091
[PB-239185/2] 07 p0136 H75-22930 BLAKE, B. L.	BORRSHA, L. Animal waste conversion systems based on thermal
Extracting minerals from geothermal brines: A	discharge
literature study [PB-240681/7] 08 p0202 H75-29545	[PB-240113] 07 p0159 H75-27548 BOGOMOLOV, B. H.
BLANK, L. T.	Thermodynamics of multistage air-cooled gas turbine
Future United States demand patterns and the use of hydrogen	BOHN, T. 06 p0050 A75-23817
08 p0179 A75-44806	Nuclear district-heating and nuclear long-distance
BLASKI, H. F. Electrical power generation subsystem for Space	energy [JUL-1077] 06 p0093 ¥75-19828
Shuttle Orbiter	BOLLETTA, P. Solar energy conversion by water photodissociation
55 g. 155 1577	08 p0173 A75-43510
4	

BOED, P. A. The design and development of an i	inte	eractiv	re
epergy model [PB-236144/2]			W75-16110
BONDIN, Y. S.		pooro	m/3-10110
Blectronic model of the U-25 device BOHERFILLE, R.		p0081	B75-17794
Wind power projects of the French authority	ele	ectrica	11
[WASA-TT-P-16057]	05	p0033	N75-13384
Fundamental research on the select			
electrochemical generators of me	06	p0060	A75-27827
Solar cells - Operation, development	ent	and	
applications	05	p0015	A75-15201
Boom, R. W. Wisconsin superconductive energy s		7	
volume 1			
[PB-238082/2] BOOT, J. L.	06	p0105	N75-20887
Feasibility study of a 100 megawat ocean thermal difference power p			cle
[PB-238571/4]			N75-21821
BOOTH, L. A. High-temperature nuclear reactors	as	an ene	rgy
source for hydrogen production	08	p0175	A75-44758
BORETZ, J. B. Technology considerations for Orga	nic	- : Ranki	ne
Cycle Electric Power Systems			
BORIE, A. A.		-	A75-10484
Evaluation of the energy perfection different forms of transport	n c	of the	
[AD-A006562] BORKO, B.			N75-23392
Wational energy flow accounts [PB-239275/1]	07	n0106	N75-24539
BORZOWI, J. T.		-	
Development of flat-plate solar content heating and cooling of buildings	3		
[NASA-CR-134804] BOS, P. B.	07	p0154	N75-26495
Solar thermal conversion mission a [AIAA PAPER 75-619]			A75-29117
Solar-thermal electric power		-	A75-31270
BOSER, O.		_	
The rate limiting processes for the hydrogen in LaNi5			
BOTKIN, D. B.		_	A75-46036
Mineral resources and the environment to section 3: Report of panel of	ent on t	. App	endir
implications of mineral products and the environment			alth
[PB-239582/0]	07	p0153	N75-26489
BOURKE, R. D. Solar heating and cooling of build	ling	js .	
BOUSSUGE, MR.		-	A75-27783
Analysis of different systems cond energy distribution on board a s			ıe
[IAP PAPER 74-084]			A75-13716
The impact of energy development of			_
resources in arid lands. Litera annotated bibliography	tui	e revi	.ew .and
[PB-240008/3] BOUDER, H. K.	07	p0157	N75-26550
Design of short haul aircraft for [SAB PAPER 750587]	fue	l cons	ervation 175-40502
Evaluation of advanced lift concer	ts	and po	tential
fuel conservation for short-haul [#ASA-CR-2502]	06	p0073	N75-16557
Bvaluation of advanced lift concercent conservative short-haul aircraft	ts	and fu	el
[MASA-CR-137525] Evaluation of advanced lift concep	06	D0096	¥75-20291
conservative short-haul aircraft	٠, ٧	olume	2
[NASA-CR-137526] BOWHAW, H. G.		•	H75-20292
Fundamental aspects of systems for thermochemical production of hyd			n water

07 p0127 N75-21391

[LA-UR-74-1459]

```
BOWSER, G. C., JR.
Development of a thermal battery for emergency
      radio power under arctic conditions
                                             05 p0007 A75-10560
BOYD, R. E.
    Preliminary evaluation of underground coal gasification at Hanna, Wyoming
                                            05 p0025 #75-10599
      [BM-TPR-82]
BOZZUTO, C. R.
    Low-BTU gasification of coal for electric power
      generation
                                             06 p0088 M75-18740
      [PB-236972/6]
BRANSCH, H.
Investigations and selection of components and
      materials for flexible solar generator
                                            06 p0050 A75-24182
    Collector work function improvements and the
      development of low temperature thermionic
      converters
                                             08 p0188 A75-45960
BRADSHAW, G. C.
Radioisotope space power generator
      [GA-A-12848]
                                             05 p0038 N75-14832
BRANDENBURG, C. P.
   Preliminary evaluation of underground coal gasification at Hanna, Wyoming
                                            05 p0025 #75-10599
      [BM-TPR-82]
BRANDHORST, H. W.
V-grooved silicon solar cells
                                            07 p0123 A75-37397
BRANDHORST, H. W., JR.
Effects of high doping levels on silicon solar
      cell performance
                                            07 p0123 A75-37403
    V-grooved silicon solar cells
[NASA-TH-X-71715]
BRANDLI, A. B.
                                            07 p0141 B75-24119
   The Energy Systems Optimization Computer Program
/ESOP/ developed for Modular Integrated Utility
      Systems /MIUS/ analysis
                                            05 p0006 A75-10551
BRANDSTETTER, A.
    The hot deeps of the Red Sea as a potential heat
      source for thermoelectric power generation
                                            05 p0004 A75-10516
BRANTLEY, L. W., JR.
Solar energy absorber
[WASA-CASE-MFS-22743-1]
                                            05 p0024 N75-10585
   Solar energy trap
[NASA-CASE-MFS-22744-1]
                                            05 p0024 N75-10586
BRAREN, R.
    Variations in heat exchanger design for ocean
      thermal difference power plants
      [PB-238572/2]
                                            07 p0143 N75-24134
BRAUH, C.

The economic incentive for introducing electric
     storage devices into the national energy system
08 p0184 175-45929
BREELLE, Y.
   Hydrogen fuel cells and motors
                                            06 p0046 A75-22042
BRESBAN, P. J.
BRES-C (Landsat 3) cryogenic heat pipe experiment
      definition
      [ NASA-CR-143797]
                                            07 p0138 #75-23882
BREWER, G. D.
Aviation usage of liquid hydrogen fuel - Prospects
      and problems
                                            08 p0172 A75-42282
   Study of active cooling for supersonic transports
[NASA-CR-132573] 06 p0079 W75-17336
BRICE, A.
    An analysis of constraints on increased coal
      production [PB-240613/0]
                                            07 p0157 #75-26525
BRIDGES, D. W.
   Production of gaseous fuel by pyrolysis of
     municipal solid waste [NASA-CR-141791]
                                            07 m0140 M75-24105
BRIGGS, D. E.
Evaluation of coal conversion processes to provide
     clean fuels, part 1 [PB-234202/0]
                                            05 p0025 N75-10600
    Bvaluation of coal conversion processes to provide
     clean fuels, part 2 [PB-234203/8]
                                            05 p0025 875-10604
```

BUDEEROLERR, R. A.

BRIGHAE, W. B. Geothermal reservoir engineering	
PRINN, D. G. The gasification of coal: A bibl:	06 p0101 #75-20853
[PB-234294/7] BRITT, B. J. Thermionic topping of electric po	
BRITTAIN, W. H. SNAP 19 Viking RTG flight configur	08 p0189 A75-45973 ration and
integration testing . BROCK, T. D.	05 p0003 A75-10504
Mineral resources and the environment to section 3: Report of panel of implications of mineral products	on the
and the environment [PB-239582/0] BRONICKI, L.	07 p0153 B75-26489
Low-power turbines using organic	vapor 07 p0110 A75-30892
BBOBOEL, G. Fundamental research on the select electrochemical generators of me	
BROST, O. Heat pipe applications development	
BROTT, C. A. A brief description of geological exploration of the Harysville ge	and geophysical
BROVALSKII, IU. A. Design study of the energy charact thermionic electric power general	· ,
and assemblies	06 p0064 A75-28893
BROWN, D. W. Geothermal energy: A new applicat mechanics	ion of rock
[LA-UR-74-821] BROWN, B. L. Utilization analysis of energy sys	06 p0068 N75-16089
[PB-239291/8] BROWE, L. S.	07 p0144 N75-24144
At-sea testing of a high seas oil [AD-A006938] BROWN, R. E.	07 p0136 N75-22953
Assessment of uranium and thorium United States and the effect of alternatives	
[PB-238658/9] BROWN, W. C. The adaptation of free space power	07 p0143 H75-24133
technology to the SSPS concept [AIAA PAPER 75-642]	06 p0063 A75-28602
BROWNSTBIB, A. B. Financial incentives and pollution case study	control: A
[PB-241479/5] BRUGHAN, J. Investment and operating costs of	08 p0208 R75-31610
geothermal power plants	06 p0101 #75-20855
BRUHLEVE, T. D. Prospects for solar energy utiliza [SAND-74-8604]	tion 05 p0034 #75-13389
Sensible heat storage in liquids [SLL-73-0263] BRUNNER, S. B.	06 p0074 N75-16773
Sulfur-based lithium-organic elect batteries	-
[AD-A003309] BUBB, R. H. II-VI photovoltaic heterojunctions energy conversion	06 p0104 B75-20882 for solar
BUCH, P. II-VI photovoltaic heterojunctions	05 p0012 A75-12734 for solar
energy conversion BUCHBERG, B.	05 p0012 A75-12734
Natural convection in enclosed spa of application to solar energy of [ASHE PAPER 74-WA/ET-12]	ces - A review ollection 05 p0017 A75-16860
BUDAR, K. A resonant point absorber of ocean	-wave power 08 p0170 A75-41425

```
U.S. energy resources - Outlook for the future
                                             05 p0014 175-12999
BULLARD, C. W., III
Energy use in the connercial and industrial
sectors of the US economy, 1963
      [PB-235487/6]
                                             06 p0070 W75-16104
BUMAS, S. J.

The EPA-Van. - A clean energy system for the home
                                             08 p0186 A75-45946
   Other primary energy resources
                                             06 p0050 175-23512
   Converting cellulosic waste to fuel: 1 literature
      review
      [AD-A009400]
                                             08 p0211 #75-32596
BUNKER, A. P.
   Energy exchange at the surface of the western
      North Atlantic Ocean
     [AD-A007296]
                                             07 p0146 B75-24285
BUPP, I. C.
The economics of nuclear power
                                             06 p0047 A75-22734
BURGER, J. M.
   Energy storage for utilities via hydrogen systems
05 p0005 A75-10537
An energy utility company's view of hydrogen energy
                                             08 p0172 A75-42283
   Energy storage for utilities via hydrogen systems [BHL-19266] 06 p0086 #75-18725
BURNHÀM, J. B.
   Assessment of uranium and thorium resources in the United States and the effect of policy
      alternatives
      [PB-238658/9]
                                             07 p0143 #75-24133
BURRIS, L.
   Development of high specific energy batteries for
      electric vehicles
      [ANL-8058]
                                             06 p0076 ¥75-16990
BUBROWS, B. W.
Redox thermogalvanic cells for direct energy
      conversion
                                             08 p0191 A75-45999
BURTON, J. S.
   The Mitre solar energy demonstration system
                                             06 p0055 A75-24676
   SH, D. H.
Pellet type thermal battery
[SAMD-74-0007]
Sixty minute thermal battery: A feasibility study
06 p0077 H75-16994
BUTLER, D. R.
Cooperative efforts by industry and government to
     develop geothermal resources
                                             06 p0102 #75-20861
BUTZ, L. W.
   Simulation of a solar heating and cooling system.
06 p0048 A75-23018
   Outdoor flat-plate collector performance
     prediction from solar simulator test data
[AIAA PAPER 75-741] 07 p0113 A75-32862
   Outdoor flat-plate collector performance
     prediction from solar simulator test data
[NASA-TH-X-71707] 07 p0140 E75-24111
BUZABOVA, L. K.
   Temperature dependence of the spectral
     characteristics of quick-response silicon
     photocells
                                            07 p0119 A75-36013
   The design and development of an interactive
     energy model
[PB-236144/2]
                                           06 p0070 #75-16110
BYSTROV, V. V.
   Method of calibrating a solar power plant with a
 paraboloidal mirror
                                            07 p0116 A75-34315
BYSZBUSKI, W. W.
   Conversion of electrical energy into laser
     radiation energy in high pressure mixtures of
     molecular gases
                                            07 p0133 N75-22722
```

•	
CADY, T. C. The hydrogen economy and the law	08 p0180 A75-44813
CAHN, R. P. Feasibility study of alternative is automotive transportation. Volume	
summary [PB-235581/6]	05 p0041 N75-15187
Feasibility study of alternative fautomotive transportation. Volume	uels for
section [PB-235582/4]	05 p0041 N75-15188
Feasibility study of alternative is automotive transportation. Volume	fuels and ume 3: Appendices
[PB-235583/2] CAIRES, B. J.	05 p0041 N75-15189
Corrosion and related problems in cells	-
CALISE, A. J.	06 p0055 A75-24377
Extended energy management method: performance optimization	s for flight
[AIAA PAPER 75-30] CAMERON, J. R.	05 p0021 A75-18269
Materials and the new dimensions of revised version	of conflict,
	07 p0154 N75-26499
Milliwatt fuel cell system for ser	nsors 05 p0008 175-10565
CAMPBELL, G. G. Preliminary evaluation of undergree	ound coal
gasification at Hanna, Wyoming [BM-TPR-82]	05 p0025 H75-10599
CAMPOS, G. Problems in electric power product	tion
[ISS-T-73/16] CAPUTO, R. S.	07 p0128 N75-21793
Two-watt radioisotope power general underwater applications	
CARASSO, M. Path to self-sufficiency direction	05 p0007 A75-10556
[PB-239099] CARAWAY, W. H.	07 p0142 N75-24128
Solvent stimulation tests in two (oilfields	
[PB-237849/5] CARBONE, B. J.	06 p0090 N75-18761
Laser application of heat pipe tec energy related programs	
CARLINE, A. J. K.	08 p0195 A75-46044
Puture hydrogen fueled commercial [SAB PAPER 750615] CARLSON, G. A.	08 p0169 A75-40521
Interesting possibilities of fusion [BNWL-SA-5069]	n-fission 06 p0096 N75-20106
Direct conversion of plasma energy	
for mirror fusion reactors [UCRL-76051] CARROLL, J.	07 p0129 N75-21800
Waste automotive lubricating oil 1 [PB-241357/3]	euse as a fuel 08 p0204 N75-30331
CARTY, B. H. Evaluation of multi-step thermoche	
for the production of hydrogen	From water 08 p0177 A75-44778
CASHION, W. B. Average oil yeild tables for oil s	shale sequences
in cores from the Uinta Basin, U	Itah, that
average 15, 20, 25, 30, 35, and [PB-236068/3]	06 p0072 H75-16124
Solar heat pump comfort heating sy	ystems 08 p0185 A75-45936
CATTANI, J. A. Impact of future use of electric	cars in the Los
Angeles region. Volume 3: Tasi impact and usage analysis	
[PB-238879/1] CATTOE, I.	07 p0131 N75-22201
Satural convection in enclosed spends of application to solar energy of	collection
[ASHE PAPER 74-WA/HT-12]	05 p0017 A75-16860

CHAIKEN, R. P. In situ combustion of coal for energy [PB-241892/9] 08 p0211 H75-32603 CHALCHAL, S. Coal combustion and desulfurization in a rotating fluidized bed reactor [BNL-19308] 07 p0129 N75-21799

CHAMPLY, R.

Wind motors: Theory, construction, assembly and use in drawing water and generating electricity
[NASA-TT-P-16201] 06 p0093 N75-19821 CHAR. D. C. Residential energy consumption and small scale options of energy systems for space heating [PB-239941/8] 07 p0154 N75-26501 [PB-239941/8] CHAH, P. K. A SASOL type process for gasoline, methanol, SNG, and low-Btu gas from coal [PB-237670/5] 06 p0095 N75-19 06 p0095 N75-19838 CHAMSKY, S.
Waste automotive lubricating oil reuse as a fuel [PB-241357/3] 08 p0204 N75-30331 CHAO, R. B. An analysis of hydrogen production via closed-cycle schemes 08 p0176 A75-44771 An Al p-silicon MOS photovoltaic cell 08 p0173 A75-43459 Geothermal steam condensate reinjection 06 p0102 N75-20863 CHEN, C. S. Cooling by solar heat
[AIAA PAPER 75-609] 06 p0062 A75-28590 Solar heating and cooling 07 p0111 A75-31269 CHEN, D. Y.
Design of energy storage reactors for dc-to-dc [NASA-CR-143327] 08 p0204 N75-30438 CHENG, P.
Steady state free convection in an unconfined geothermal reservoir 05 p0009 A75-11069 CHEPURNIY. N. An analytical and experimental investigation of a laboratory solar pond model
[ASME PAPER 74-WA/SOL-3] 05 p0019 A75-16886
Effect of diffusion on concentration profiles in a solar pond 08 p0167 A75-39412 CHERKASSKI, A. KH. Photoelectric energy converter temperature sensor 07 p0122 A75-37163 CHERKASSKII, A. KH.
Temperature sensor for photoelectric energy converters 06 p0057 A75-26712 CHERRE, J. M.
Solar energy - An overview 08 p0181 A75-45508 CHBRUIAVSKY, B. A. On the role of hydrogen in electric energy storage 08 p0178 A75-44797 The economic incentive for introducing electric storage devices into the national energy system
08 p0184 A75-45929 CHERVARY, M. L. A regional energy information system for Minnesota: A preliminary design
[PB-241124/7] 08 p0205 M75-30944
Design considerations for a comprehensive regional energy information system [PB-241123/9]
CHIKOVANI, V. V. 08 p0206 #75-30946 Effectiveness of using chemically reacting working media in a solar gas-turbine installation 08 p0180 A75-45063 CHILLIER DUCHATEL, H.
Hydrazine as a fuel for a fuel cell 08 p0166 A75-39132 CHIBBAPPA, J. C. V.
Solar operation of apponia-water multistage air conditioning cycles in the tropics 06 p0048 A75-23021

Economics of a hydrogen storage peaking power plant
[ASME PAPER 74-WA/PWR-6] 05 p0018 A75-16880

[ASME PAPER 74-WA/PWR-6]

,	
CHOI, P. Assessment of the potential of clean fuels and energy technology	COLCORD, A. R. Parametric study for a pyrolytic system for production of fuels from agricultural and
[PB-239970/7] 07 p0162 N75-27583 CHRISTENBURY, S. T.	forestry wastes 08 p0187 175-45950
SNAP 19 Viking RTG flight configuration and integration testing	COLE, R. B. Hydrogen as a fuel
05 p0003 A75-10504	[AD-787484] 06 p0066 M75-15818 Hydrogen as a fuel
Getting at the big facts in transportation	[AD-A006984] 07 p0132 N75-22477
O8 p0173 A75-42973	COLIN, R. Lead accumulator batteries in telecommunications
Polycrystalline silicon layers for solar cells 08 p0165 A75-38958	[BLL-TRAMS-2943-(9022.81)] 06 p0074 H75-16967 COLLINS, B.
Development of low cost thin film polycrystalline silicon solar cells for terrestrial applications [PB-238505/2] 06 p0105 N75-20890 CHUBB, T. A.	Power generation for the I4 spacecraft - A step in the development of a high power/mass ratio, hybrid solar array for applications spacecraft 06 p0053 A75-24251
Analysis of gas dissociation solar thermal power system 07 p0115 A75-33974	COLLINS, L. W. An evaluation of discarded tires as a potential source of fuel
CLARK, A. P. Industrial process heat from solar energy	05 p0012 175-12416 An evaluation: The potential of discarded tires
08 p0190 A75-45992	as a source of fuel
Shallow solar pond energy conversion system: An analysis of a conceptual 10-MWe plant [UCRL-51533-REV-1] 05 p0028 875-11467	[NASA-TH-X-58143] 05 p0038 m75-15153 COLLINS, m. P. The FFA-Van - A clean energy system for the home
CLARK, H. A. Solar characteristics of new absorptive coatings	08 p0186 A75-45946 COLLIES, R. J.
used on solar collectors 07 p0117 175-34934	Bvaluation of the suitability of Skylab data for the purpose of petroleum exploration
CLARK, R. P. Development and performance of a miniature,	[E75-10257] 07 p0147 H75-25237 COLLHAH, J. P.
high-voltage thermal battery 05 p0007 A75-10559 Development and performance of a miniature,	Workshop on Fundamental Research in Homogeneous catalysis as Related to US Energy Problems [PB-240177/6] 08 p0200 N75-28524
high-voltage thermal battery [SLA-74-5363] 06 p0076 H75-16988	COMBS, J. Geophysical, geochemical, and geological
CLARK, W. D. K. Photogalvanic cells	investigations of the Dunes geothermal system, Imperial Valley, California
08 p0167 A75-39403	COMBS, J. B.
Availability and propulsion 08 p0195 A75-46548	The geology and geophysics of geothermal energy 06 p0061 A75-28438
CLAUSER, M. J. Ion-beam implosion of fusion targets 08 p0181 A75-45386	COMEAU, R. P. Papers and proceedings of two energy crisis seminars [PB-239164/7] 07 p0156 N75-26513
CLAUSI, J. V. Study of fuel cell powerplant with heat recovery	COMMONER, B. The effect of recent energy price increases on
[NASA-CR-141854] 07 p0148 N75-25296 CLEMENT, J. D.	field crop production costs [PB-238659/7] 06 p0107 N75-21155
The UF6 Breeder - A solution to the problems of nuclear power	COMERR, W. L. Evaluation of multi-step thermochemical processes
08 p0187 A75-45951 CLOUTIER, P. D.	for the production of hydrogen from water 08 p0177 175-44778
A preliminary technology assessment of ocean thermal gradient energy generation [PB-238646/4] 07 p0144 N75-24147	COMMELL, J. W. Hot side heat exchanger for an ocean thermal difference power plant
COBBLE, M. H. Numerical modeling of flat plate solar collectors	05 p0004 A75-10527 Variations in heat exchanger design for ocean
[AIAA PAPER 75-739] 07 p0113 A75-32861 COCHET-BUCHY, B.	thermal difference power plants [PB-238572/2] 07 p0143 N75-24134
Energy, hydrogen, and pollution 06 p0046 A75-22041	COHERR, J. G. Coal gasification - A review of status and
COFFRAN, F. E.	technology
08 p0170 A75-41434	CONSOLI, T. 06 p0059 A75-27781
Technical and economic evaluation of solar heating	Plasma heating methods 07 p0119 A75-35920
and cooling of buildings 08 p0184 A75-45921	COOK, C. S. Evaluation of a fossil fuel fired ceramic
COERD, A. S. Environmental regulations and energy for home	regenerative heat exchanger [PB-236346/3] 06 p0092 N75-19599
heating [PB-240699/9] 08 p0203 F75-29587 COHB, B. B.	COOK, G. L. Retorting indexes for oil-shale pyrolyses from ethylene-ethane ratios of product gases
#ASA objectives for improved solar power plants • 05 p0002 A75-10485	[PB-234050/3] 05 p0034 B75-13399 Pulsed nuclear magnetic resonance studies of oil
COLARDELLE, P. The effects of irradiation on high-efficiency silicon solar cells	shalesestimation of potential oil yields [PB-240023/2] 07 p0148 M75-25283 COOKE-TARBOROUGH, E. H.
06 p0051 175-24199 High efficiency silicon solar cells	The Harwell thermo-mechanical generator 05 p0009 A75-10579
06 p0052 A75-24217 COLASURDO, G.	Efficient thermo-mechanical generation of electricity from the heat of radioisotopes
Contribution to the improvement of the regulating process of ignition controlled engines	08 p0192 a75-46013
· [PUBL-165] 08 p0206 N75-31285	•

COOL, R. W. Blectron and proton irradiation of high-efficiency silicon solar cells 06 p0053 A75-24233 Technological improvements to automobile fuel consumption. Volume 1: Executive summary [PB-238677/9] 07 p0132 E75-22478 Technological improvements to automobile fuel consumption. Volume 2A: Sections 1 through 23 [PB-238678/7] Technological improvements to automobile fuel consumption. Volume 2B: Sections 24 and 25 and appendixes A through I
[PB-238679/5] 07 p0132 P75-3240 COONLEY, D. An ecologic solar heated and cooled home 07 p0118 A75-34937 COOPER, B.

An assessment and analysis of the energy emergency
06 p0066 H75-16076 Energy policy and resource management [GPO-33-634] 07 07 p0 149 ¥75-25300 COOPER, P. I.
A method of simulation of solar processes and its application 07 p0109 A75-29474 COPELAND. G. PRLAND, G.

Interdisciplinary study of atmospheric processes and constituents of the mid-Atlantic coastal region. Attachment 3: Data set for Craney Island oil refinery installation experiment [WASA-CR-142823] 07 p0141 N75-24121 Interdisciplinary study of atmospheric processes and constituents of the mid-Atlantic coastal region. Attachment 4: Data set for background investigation of atmospheric constituents for investigation of atmospheric constituents for Nansemond River site [NASA-CR-142821] 07 p0141 N75-24122 COPLES, T. B.
Geophysical, geochemical, and geological
investigations of the Dunes geothermal system,
Imperial Valley, California
[IGPP-UCR-74-31]
06 p0098 B75-2 06 p0098 N75-20836 COPPS, S. L. Bnergy survey - What can R&D do by 1985 08 p0169 A75-40617 CORDER, T. E.
SIMSHAC - A simulation program for solar heating and cooling of buildings 06 p0061 A75-28093 CORDER. W. C. Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] 06 p0087 H75-18734 CORLETT, R. C. Hydrogen-energy storage for electrical utility systems 08 p0178 A75-44798 CORMACK, A., III Design and testing of an energy flywheel for an
Integrated Power/Attitude Control System /IPACS/
[AIAA PAPER 75-1107] 08 p0171 A75-41669
Design and test of a flywheel energy storage unit for spacecraft application 08 p0193 A75-46028 Man, J. C. Solar augmented home heating heat pump system 05 p0004 A75-10524 measurements for in situ energy-recovery processes
[UCID-16631] 06 p0097 H75-20693 COSTELLO, J.

Bineral resources and the environment. Appendix
to section 3: Report of panel on the
implications of mineral production for health and the environment [PB-239582/0] . 07 p0153 N75-26489 COSTOGUE, E. N.
Solar electric propulsion spacecraft power subsystem for an Encke comet rendezvous mission 05 p0002 A75-10481 Power processor design considerations for a solar electric propulsion spacecraft [NASA-CR-140842] 05 p0029 N75-12064

COTTON, F. O.
Waste lubricating oil research. A comparison of bench-test properties of re-refined and virgin lubricating oils [PB-238124/2] 06 p0097 #75-20746 COUCE, J. P.
The HASA-Lewis/ERDA Solar Heating and Cooling Technology Program 08 p0197 A75-47803 The NASA-Levis/ERDA solar heating and cooling technology program [NASA-TH-X-71800] 08 p0210 N75-32592 COUCE, W. 1. Modeling of solar absorption air conditioning 07 p0117 a75-34932 COULTER, P. E. Wind capture and diversion through pneumatic energy recovery with large capacity aerogenerators 08 p0175 A75-44762 MIT, B. B. Characteristics of a rocking wave power device 06 p0062 A75-28450 Low-BTU gasification of coal for electric power generation [PB-236972/6] 06 p0088 N75-18740 COI, R. B. l, R. B. Bydrogen production from solar energy 07 p0109 A75-29477 An analysis of hydrogen production via closed-cycle schemes 08 p0176 A75-44771 Chemically active fluid-bed process for sulphur removal during gasification of heavy fuel oil, phase 2 [PB-240632/0] 07 p0159 #75-27556 CRAIG, R. A. CRAIG, R. A.
A review of the Project Independence report
submitted to Office of Energy Research and
Development, National Science Foundation, 10
January 1975
[PB-238791/8] 07 p0131 N75CRANE, T. B.
Production of gaseous fuel by pyrolysis of
municipal solid waste
[HASA-CR-141791] 07 p0140 N75CRANDORD L. H. 07 p0131 N75-21823 07 p0140 N75-24105 CRAFFORD, L. W.

The MHD power generation system with directly fired coal 05 D0009 A75-10577. CREUPSON. R. A. The Colorado School of Hines Nevada geothermal study 06 p0099 N75-20837 CROTHERS, W. T.
Use of methanol in transportation [UCID-16528] 06 p0077 N75-16996 CRUMP, L. H. Puel and energy data: United States by states and regions, 1972 [PB-236581/5] 06 p0077 N75-170 06 p0077 N75-17004 CUMDRLL, A. H.
Petroleum degradation in low temperature marine and estuarine environments
[AD-A007588] 07 p0146 N75-24191 CUBBITEGERS, A. R.
Peasibility study of alternative fuels for
automotive transportation. Volume 1: Executive summary [PB-235581/6] 05 p0041 N75-15187 Peasibility study of alternative fuels for automotive transportation. Volume 2: Technical section [PB-235582/4] 05 p0041 N75-15188 Peasibility study of alternative fuels and automotive transportation. Volume 3: Appendices [PB-235583/2] 05 p0041 B75-15189 Effects of changing the proportions of automotive distillate and gasoline produced by petroleum refining [PB-236900/7] 06 p0085 N75-18443 CUONO, J. J.
A new concept for solar energy thermal conversion 07 p0110 A75-30368 CURRAW, H. H.
Assessment of Rankine cycle for potential application to solar-powered cooling of buildings
[ASME PAPER 74-WA/SOL-7] 05 p0019 A75-16890

Evaluation of solar-assisted Rankine cycle concept for the cooling of buildings	DAY, W. H. Pumped air storage for electric power generation
08 p0194 A75-46040 Assessment of the Rankine cycle for potential application to sclar powered cooling of buildings [PB-238069/9] 06 p0089 #75-18755	05 p0013 A75-12990 DB BBFI, G. Considerations on iron-chloride-oxygen reactions in relation to thermochemical water-splitting
CURTIE, D. J. Blectron and proton irradiation of high-efficiency	08 p0177 A75-44779
silicon solar cells 06 p0053 175-24233	Silicon solar cells for highly concentrated sunlight 07 p0120 175-36363
Solar cell modules for lightweight solar arrays 06 p0057 175-26068	DBB, S. Some aspects of a solar battery system and its use for irrigation in remote sun-rich regions 06 p0054 A75-24256
D	Performance of a solar battery using
DALAL, V. L. Ppitaxial silicon solar cell 06 p0056 A75-25086	quasi-cylindrical array of plane mirrors as a concentrator 07 p0109 A75-29478
DALIBOT, B.	DEBS, R. J.
Solar generators for terrestrial applications 06 p0054 A75-24257	Measurements of the performance of an electrohydrodynamic heat pipe
DALTON, C. Energy recovery from solid waste	[AIAA PAPER 75-659] 07 p0114 A75-32917 DECORA, A. W.
06 p0079 H75-17200 Energy recovery from solid waste. Volume 2:	Retorting indexes for oil-shale pyrolyses from ethylene-ethane ratios of product gases
Technical report [NASA-CR-2526] 07 p0148 N75-25292	[PB-234050/3] 05 p0034 H75-13399 Pulsed nuclear magnetic resonance studies of oil
DAMBOLEHA, I. G.	shalesestimation of potential oil yields
A planning methodology for the analysis and design of wind-power systems	[PB-240023/2] 07 p0148 H75-25283 DBITCH, L.
05 p0004 A75-10517 DABIELS, A.	Institutional and environmental problems in geothermal resource development
Stirling engines - Capabilities and prospects 06 p0048 A75-23237	DELAHOY, A. B.
DANIELS, W. H. G. Haterials requirements for advanced energy	Design considerations in Schottky solar cells 08 p0188 A75-45962
systems: New fuels. Volume 3: Materials research needs in advanced energy systems using	DELLER, R. W. The oxidation of ethylene in automotive engine
new fuels	exhaust gas; an experimental investigation
[AD-A004550] 07 p0458 N75-27168 DANIELS, T. C.	07 p0138 N75-23719
Investigations of the factors affecting the	Glass solar heat collector development
performance of a rotating heat pipe 07 p0120 A75-36357	[AIAA PAPER 75-740] 07 p0115 A75-33758 DEHTON, E. H.
DARKAZALLI, G. Wind and solar thermal combinations for space	Helium survey, a possible technique for locating geothermal reservoirs
heating 08 p0192 175-46010	07 p0118 A75-35438
DAVIDSON, J. H. Fusion power - Prospects and impact	Solar thermal absorption heat pump breakeven coefficient of performance
05 p0021 A75-18080	[ASHE PAPER 74-WA/ENER-2] 05 p0015 A75-16834
DAVIES, R. L. Coal petrography and petrology. A bibliography	Research on solar cell arrays and electric energy [PB-239338/7] 07 p0155 N75-26504
1964 - 1973	Integrated solar powered climate conditioning
[PB-236351/3] 06 p0072 N75-16123 DAVIS, A.	systems [PB-239759/4] 08 p0200 H75-28527
The relation of coal characteristics to coal	DENTON, J. D.
liquefaction behavior [PB-239261/1] 07 p0151 N75-25327	The potential of natural energy sources 08 p0165 A75-38865
DAVIS, B. K.	DERIAM, JC.
Solar energy power system [NASA-CASE-MFS-21628-2] 08 p0202 H75-29548	The economics of nuclear power
[HASA-CASE-MFS-21628-2] 08 p0202 H75-29548 DAVIS, E. S.	06 p0047 A75-22734 DRUI, 8.
Solar heating and cooling of buildings 06 p0059 A75-27783	Methane emission from U.S. Coal mines in 1973, a
DAVIS, J. P.	survey [PB-240154/5] 07 p0152 H75-25354
Topping cycle applications of thermionic conversion 08 p0188 A75-45972	DEUL, H. Degasification of the Hary Lee coalbed near Oak
Solar energy for process steam generation [PB-238109/3] 07 p0145 N75-24154	Grove, Jefferson County, Alabama, by vertical borehole in advance of mining
DAVIS, S. J. Documenting helicopter operations from an energy	[BH-RI-7968] 05 p0028 #75-11462 DEUTCH, H. J.
standpoint [HBSA-CR-132578] 06 p0084 H75-18220	International energy problems and environmental policy
PAVITIAN, E. Energy carriers in space conditioning and	05 p0014 A75-13597
automotive applications - A comparison of hydrogen, methane, methanol and electricity	DEVANUET, J. W. The OCS (Outer Continental Shelf) petroleum pie [COM-75-10599/9] 08 p0206 B75-31562
05 p0005 A75-10540	DEVINE, P. E. The ECL-Thurow model supplement
Industrial process heat from solar energy 08 p0190 A75-45992	[PB-241113/0] 08 p0204 B75-29952 DEWALLE, D. R.
Shallow solar pond energy conversion system: An analysis of a conceptual 10-MVe plant [UCRL-51533-REV-1] 05 p0028 M75-11467	An agro-power-waste water complex for land disposal of waste heat and waste water [PB-239675/2] 07 p0161 B75-27570
DAY, R. L.	-
Oil and US policy [AD-A006473] 08 p0203 E75-29558	•

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DRWINTER, P. Workshop Proceedings on Solar Coo			
Workshop Proceedings on Solar Coo			•
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buildings, held in conjunction	with	the	
buildings, held in conjunction Semiannual Meeting of the Ameri	can	Societ	v of
Heating, Refrigerating and Air	Cond	litioni	nα
Engineers (ASHRAE)			9
[PB-239419/5]	07	50100	875-24 145
DEWITT, D.	٠,	PO 144	B/J-24 14.
Novel materials for power systems			
Selective emitters for energy of			
[AD-784449]	05	D0056	N75-10608
DIALLO, A.			
Thermokinetics of a flat solar co	lle	ctor of	
constant heat caracity			
•	08	p0171	A75-41768
DIALS, G. B.		-	
Blectrochemical heat engines for	dire	ect ele	ctric
power generation and energy sto			
[AIAA PAPER 75-1237]			A75-45649
DICK, G. J.		•	
A superconducting microwave engin	_		
- Depote off decetal and to to wave engine		20056	A75-25831
DICK, P. J.		pooso	1,3 E303
	e .		
RTG electrical power for spacecra	- 2	- ~~ = =	175 0606
NTCHTHEOR H C	Ub.	pous/	A75-26067
DICKIBSON, W. C.	_		
Industrial process heat from sola			
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Shallow solar pond energy convers	ion	syster	a: An .
analysis of a conceptual 10-MWe	pla	int	
[DCRL-51533-REV-1]	05	p0028	N75-11467
LLL-SOHIO solar process heat proj	ect	_	
[UCID-16630-74-1]		p0093	N75-19827
DICKS, J. B.		•	
Review of central power magnetohy	drod	ivnamic	s
[AIAA PAPER 75-264]			A75-25005
MHD energy conversion		•	
[AD-785419]	05	p0032	¥75-12807
DICKSON, E. H.		• .	
The use of hydrogen in commercial	aiı	craft	- An
assessment			
	05	p0006	A75-10542
A technology assessment of the hy			
concept		•	
· · · · · · · · · · · · · · · · · · ·	08	D0172	A75-42286
A technology assessment of the hy			
	aro.	len ecc	
concept	aro	jen ecc	
			A75-46037
concept	08	p0194	175-4603 7
CONCEPT DISTRICE, G.	08 ear	p0194 long-d	175-46037
concept DIBTRICE, G. Nuclear district-heating and nucle energy [JUL-1077]	08 ear	p0194 long-d	175-4603 7
DISTRICE, G. Buclear district-heating and nucl energy	08 ear	p0194 long-d	175-46037
CONCEPT DIBTRICE, G. Buclear district-heating and nucle energy [JUL-1077] DIETZEAR, W. D.	08 ear 06	p0194 long-d p0093	A75-46037 Istance B75-19828
CONCEPT DIETRICE, G. Buclear district-heating and nuclenergy [JUL-1077] DIETRAN, W. D. Profitability analysis of produci	08 ear 06	p0194 long-d p0093 crude c	A75-46037 Istance B75-19828
CONCEPT DIETRICE, G. Buclear district-heating and nuclenergy [JUL-1077] DIETZERN, W. D. Profitability analysis of productions waterflooding using a simulation	08 ear 06 ng c	p0194 long-d p0093 crude c echniqu	A75-46037 istance N75-19828 il by
concept DIBTRICH, G. Buclear district-heating and nucle energy [JUL-1077] DIETZHAW, W. D. Profitability analysis of product waterflooding using a simulatio [PB-237843/8]	08 ear 06 ng c	p0194 long-d p0093 crude c echniqu	A75-46037 Istance B75-19828
CONCEPT DIBTRICE, G. Buclear district-heating and nucle energy [JUL-1077] DIETZBAB, W. D. Profitability analysis of product waterflooding using a simulatio [PB-237843/8] DIESDALE, E. R.	08 ear 06 ng (p0194 long-d p0093 crude c echniqu p0088	A75-46037 istance M75-19828 pil by le M75-18738
CONCEPT DIETRICE, G. Buclear district-heating and nuclenergy [JUL-1077] DIETZBAW, W. D. Profitability analysis of productwaterflooding using a simulation [PB-237843/8] DIESDALE, M. B. Papers and proceedings of two ene	08 ear 06 ng 6	p0194 long-d p0093 crude c echniqu p0088 crisis	A75-46037 istance N75-19828 vil by le N75-18738
CONCEPT DIBTRICH, G. Buclear district-heating and nucle energy [JUL-1077] DIETZHAW, W. D. Profitability analysis of product waterflooding using a simulation (PB-237843/8) DIMSDALE, K. B. Papers and proceedings of two energes.	08 ear 06 ng 6	p0194 long-d p0093 crude c echniqu p0088 crisis	A75-46037 istance M75-19828 pil by le M75-18738
CONCEPT DIBTRICE, G. Buclear district-heating and nuclenergy [JUL-1077] DIETZHAW, W. D. Profitability analysis of product waterflooding using a simulation [PB-237843/8] DIWSDALE, K. B. Papers and proceedings of two energy [PB-239164/7] DIPASQUALE, R.	08 ear 06 ng (06 06	p0194 long-d p0093 crude cechniqu p0088 crisis	A75-46037 istance B75-19828 sil by le B75-18738 seminars B75-26513
CONCEPT DIETRICE, G. Buclear district-heating and nuclenergy [JUL-1077] DIETZBAW, W. D. Profitability analysis of productwaterflooding using a simulation [PB-237843/8] DIMSDALE, K. B. Papers and proceedings of two ene [PB-239164/7] DIPASQUALE, R. Phosphoric acid fuel cell stack designed.	08 ear 06 ng 6 n to	p0194 long-d p0093 crude c echniqu p0088 crisis p0156	A75-46037 istance B75-19828 vil by le B75-18738 seminars B75-26513
CONCEPT DIRTRICH, G. Buclear district-heating and nuclenergy [JUL-1077] DIETZHAH, W. D. Profitability analysis of product waterflooding using a simulation [PB-237843/8] DIESDALE, E. B. Papers and proceedings of two ene [PB-239164/7] DIPASQUALE, R. Phosphoric acid fuel cell stack defined the stack of the stac	08 ear 06 ng 6 n to	p0194 long-d p0093 crude c echniqu p0088 crisis p0156	A75-46037 istance B75-19828 sil by le B75-18738 seminars B75-26513
CONCEPT DIBTRICE, G. Buclear district-heating and nuclenergy [JUL-1077] DIETZHAW, W. D. Profitability analysis of product waterflooding using a simulation (PB-237843/8) DIMSDALE, K. R. Papers and proceedings of two energibles of two energib	08 ear 06 ng (06 06 rgy 07	p0194 long-d p0093 crude cechniqu p0088 crisis p0156 lopment p0186	A75-46037 istance B75-19828 vil by le B75-18738 seminars B75-26513
CONCEPT DIETRICE, G. Buclear district-heating and nuclenergy [JUL-1077] DIETZHAW, W. D. Profitability analysis of productwaterflooding using a simulation [PB-237843/8] DIMSDALE, K. B. Papers and proceedings of two enemon [PB-239164/7] DIPASQUALE, R. Phosphoric acid fuel cell stack designed.	08 ear 06 ng (06 06 rgy 07 eve:	p0194 long-d p0093 crude cechniqu p0088 crisis p0156 lopment p0186	A75-46037 iistance B75-19828 bil by le B75-18738 seminars B75-2651
CONCEPT DIBTRICE, G. Buclear district-heating and nucle energy [JUL-1077] DIETZBAN, W. D. Profitability analysis of product waterflooding using a simulation [PB-237843/8] DIMSDALE, K. B. Papers and proceedings of two energes-239164/7] DIPASQUALE, E. Phosphoric acid fuel cell stack of DOBBLLI, S. Problems in electric power product [ISS-7-73/16]	08 ear 06 ng (06 06 rgy 07 eve:	p0194 long-d p0093 crude cechniqu p0088 crisis p0156 lopment p0186	A75-46037 iistance N75-19828 iil by ie N75-18738 seminars N75-26513
CONCEPT DIBTRICH, G. Buclear district-heating and nucle energy [JUL-1077] DIETZHAM, W. D. Profitability analysis of product waterflooding using a simulation [PB-237843/8] DIESDALE, K. B. Papers and proceedings of two energes and proceedings o	08 ear 06 ng (07 07 08	p0194 long-d p0093 crude cechniqu p0088 crisis p0156 lopment p0186	A75-46037 iistance B75-19828 bil by le B75-18738 seminars B75-2651
CONCEPT DIETRICE, G. Buclear district-heating and nuclenergy [JUL-1077] DIETZHAW, W. D. Profitability analysis of product waterflooding using a simulatio [PB-237843/8] DIWSDALE, K. B. Papers and proceedings of two ene [PB-239164/7] DIPASQUALE, R. Phosphoric acid fuel cell stack d DOWNLL, S. Problems in electric power productions of two energies. [ISS-T-73/16] DOWNLLY, W. Energy policy and resource manage	08 ear 06 ng c 06 rgy 07 evel 08	p0194 long-d p0093 crude cechniqu p0088 crisis p0156 lopment p0186	A75-46037 iistance B75-19828 bil by le B75-18738 seminars B75-26513 A75-45943
CONCEPT DIETRICE, G. Buclear district-heating and nucle energy [JUL-1077] DIETRAN, W. D. Profitability analysis of product waterflooding using a simulation [PB-237843/8] DIESDALE, K. B. Papers and proceedings of two energians of two energians proceedings of two energians	08 ear 06 ng c 06 rgy 07 evel 08	p0194 long-d p0093 crude cechniqu p0088 crisis p0156 lopment p0186	A75-46037 iistance N75-19828 iil by ie N75-18738 seminars N75-26513
CONCEPT DIETRICH, G. Buclear district-heating and nuclenergy [JUL-1077] DIETRIAN, W. D. Profitability analysis of product waterflooding using a simulation (PB-237843/8] DIESDALE, K. R. Papers and proceedings of two ene (PB-239164/7) DIPASQUALE, R. Phosphoric acid fuel cell stack of DOMELI, S. Problems in electric power product (ISS-T-73/16) DOMERILL, W. Energy policy and resource manage (GPO-33-634) DOMOVAL, T. J.	08 ear 06 ng (07 07 evelope 07	p0194 long-d p0093 crude cechniqu p0088 crisis p0156 lopment p0186	A75-46037 iistance B75-19826 bil by B75-18736 seminars B75-26513 A75-45943 B75-21793
CONCEPT DIETRICE, G. Buclear district-heating and nucle energy [JUL-1077] DIETZHAW, W. D. Profitability analysis of product waterflooding using a simulation [PB-237843/8] DIMSDALE, K. B. Papers and proceedings of two energians and proceedings of two energian	08 ear 06 ng (07 07 evelope 07	p0194 long-d p0093 crude cechniqu p0088 crisis p0156 lopment p0186	A75-46037 iistance B75-19826 bil by B75-18736 seminars B75-26513 A75-45943 B75-21793
CONCEPT DIETRICH, G. Buclear district-heating and nuclenergy [JUL-1077] DIETRIAN, W. D. Profitability analysis of product waterflooding using a simulation (PB-237843/8] DIESDALE, K. R. Papers and proceedings of two ene (PB-239164/7) DIPASQUALE, R. Phosphoric acid fuel cell stack of DOMELI, S. Problems in electric power product (ISS-T-73/16) DOMERILL, W. Energy policy and resource manage (GPO-33-634) DOMOVAL, T. J.	08 ear 06 ng c 06 rgy 07 evel 08 ttion 07 ment	p0194 long-d p0093 crude cechniqu p0088 crisis p0156 lopment p0186 i p0128 crisis	A75-46037 iistance N75-19828 vii by te N75-18738 seminars N75-26513 A75-45943 H75-21793
DISTRICE, G. Buclear district-heating and nuclenergy [JUL-1077] DISTRIME, W. D. Profitability analysis of product waterflooding using a simulation [PB-237843/8] DISSALE, K. R. Papers and proceedings of two ene [PB-239164/7] DIPASQUALE, R. Phosphoric acid fuel cell stack of DOBELLI, S. Problems in electric power product [ISS-T-73/16] DOBESLIT, W. Energy policy and resource manage [GPO-33-634] DOBOVIE, T. J. Helium survey, a possible techniq geothermal reservoirs	08 ear 06 ng c 06 rgy 07 evel 08 ttion 07 ment	p0194 long-d p0093 crude cechniqu p0088 crisis p0156 lopment p0186 i p0128 crisis	A75-46037 iistance B75-19826 bil by B75-18736 seminars B75-26513 A75-45943 B75-21793
DIETRICE, G. Buclear district-heating and nucle energy [JUL-1077] DIETZHAW, W. D. Profitability analysis of product waterflooding using a simulation [PB-237843/8] DIMSDALE, K. B. Papers and proceedings of two energians and pro	08 ear 06 ng c 06 rgy 07 evel 08 ttion 07 ment	p0194 long-d p0093 crude cechniqu p0088 crisis p0156 lopment p0186 i p0128 crisis	A75-46037 iistance N75-19828 vii by te N75-18738 seminars N75-26513 A75-45943 H75-21793
DISTRICE, G. Buclear district-heating and nuclenergy [JUL-1077] DISTRIME, W. D. Profitability analysis of product waterflooding using a simulation [PB-237843/8] DISSALE, K. R. Papers and proceedings of two ene [PB-239164/7] DIPASQUALE, R. Phosphoric acid fuel cell stack of DOBELLI, S. Problems in electric power product [ISS-T-73/16] DOBESLIT, W. Energy policy and resource manage [GPO-33-634] DOBOVIE, T. J. Helium survey, a possible techniq geothermal reservoirs	08 ear 06 ng con to 06 rgy 07 eve 08 tion 07 ment 07	p0194 long-d p0093 crude cechniqu p0088 crisis p0156 lopment p0186 p0128 p0149 for loc	A75-46037 iistance N75-19828 vii by te N75-18738 seminars N75-26513 A75-45943 H75-21793 H75-25300 cating A75-35438
DISTRICE, G. Buclear district-heating and nucle energy [JUL-1077] DISTRIME, W. D. Profitability analysis of product waterflooding using a simulation (PB-237843/8] DISSBLE, K. R. Papers and proceedings of two energy energy endergy ender	08 ear 06 ng con to 06 rgy 07 eve 08 tion 07 ment 07	p0194 long-d p0093 crude cechniqu p0088 crisis p0156 lopment p0186 p0128 p0149 for loc	A75-46037 iistance N75-19828 vii by te N75-18738 seminars N75-26513 A75-45943 H75-21793
DISTRICE, G. Buclear district-heating and nuclenergy [JUL-1077] DISTRIAN, W. D. Profitability analysis of product waterflooding using a simulation [PB-237843/8] DINSDALE, K. B. Papers and proceedings of two enemonia [PB-239164/7] DIPASQUALE, R. Phosphoric acid fuel cell stack of the control of the	08 ear 06 ng con to con	p0194 long-d p0093 crude cechniqu p0088 crisis p0156 lopment p0186 p0128 p0149 for loc p0118	A75-46037 iistance H75-19828 bil by H75-18738 seminars H75-2651 A75-45943 H75-21793 H75-25300 ating A75-35438
CONCEPT DIETRICE, G. Buclear district-heating and nucle energy [JUL-1077] DIETZBAN, W. D. Profitability analysis of product waterflooding using a simulation [PB-237843/8] DINSDALE, K. R. Papers and proceedings of two energives and proceedings of two energives are greatly and fuel cell stack of the control of the c	08 ear 06 ng con to continue to co	p0194 long-d p0093 crude cechniqu p0088 crisis p0156 lopment p0186 p0128 p0149 for loc p0118	A75-46037 iistance H75-19828 bil by H75-18738 seminars H75-2651 A75-45943 H75-21793 H75-25300 ating A75-35438
DISTRICE, G. Buclear district-heating and nuclenergy [JUL-1077] DISTRIAN, W. D. Profitability analysis of product waterflooding using a simulation [PB-237843/8] DINSDALE, K. B. Papers and proceedings of two enemonia [PB-239164/7] DIPASQUALE, R. Phosphoric acid fuel cell stack of the control of the	08 ear 06 ng (10 06 rgy 07 eve 08 etion 07 ment 07 06 itie	p0194 long-d p0093 crude cechniqu p0088 crisia p0156 lopment p0186 p0128 p0149 for loc p0118 p0047 on of w	A75-46037 iistance B75-19826 sil by B75-18736 seminars B75-26513 A75-45943 B75-21793 B75-25300 sating A75-35438 A75-22734
DIETRICE, G. Buclear district-heating and nucle energy [JUL-1077] DIETZHAW, W. D. Profitability analysis of product waterflooding using a simulatio [PB-237843/8] DIMSDALE, K. B. Papers and proceedings of two ene [PB-239164/7] DIPASQUALE, R. Phosphoric acid fuel cell stack d DOWELLI, S. Problems in electric power product [ISS-7-73/16] DOWNELLY, W. Energy policy and resource manage [GPO-33-634] DOMOVAM, T. J. Helium survey, a possible techniq geothermal reservoirs DOMSIMONI, RP. The economics of nuclear power SOMMER, S. Bydrogen production from decomposements of nuclear reactor heat	08 ear 06 ng (10 06 rgy 07 eve 08 etion 07 ment 07 06 itie	p0194 long-d p0093 crude cechniqu p0088 crisia p0156 lopment p0186 p0128 p0149 for loc p0118 p0047 on of w	A75-46037 iistance H75-19828 bil by H75-18738 seminars H75-2651 A75-45943 H75-21793 H75-25300 ating A75-35438
DIBTRICE, G. Buclear district-heating and nucle energy [JUL-1077] DIBTZERN, W. D. Profitability analysis of product waterflooding using a simulation [PB-237843/8] DINSDALE, R. Papers and proceedings of two energibers and proceedings of two energibers are greatly as a simulation [PB-239164/7] DIPASQUALE, R. Phosphoric acid fuel cell stack of the cell	08 ear 06 ng 06 ng 07 08 etion 07 07 06 itid 08	p0194 long-d p0093 crude cechniqu p0088 crisis p0156 lopment p0186 p0128 crisis p0149 p0149 for loc p0118	A75-46037 iistance B75-19826 sil by B75-18736 seminars B75-26513 A75-45943 B75-21793 B75-25300 sating A75-35438 A75-22734
DISTRICE, G. Buclear district-heating and nucle energy [JUL-1077] DISTRIME, W. D. Profitability analysis of product waterflooding using a simulation [PB-237843/8] DINSDALE, K. R. Papers and proceedings of two energy energy end for two energy ends and proceedings of two energy ends and proceedings of two energy ends and fuel cell stack of DONELLI, S. Problems in electric power product [ISS-7-73/16] DONELLI, S. Energy policy and resource manage [GPO-33-634] DONOVAL, T. J. Helium survey, a possible technique geothermal reservoirs DONSINONI, TD. The economics of nuclear power DONELLS, S. By drogen production from decomposements of nuclear reactor heat DONOUNE, S. By drogen progress in the technologen.	08 ear 06 ng 06 ng 07 08 etion 07 07 06 itid 08	p0194 long-d p0093 crude cechniqu p0088 crisis p0156 lopment p0186 p0128 crisis p0149 p0149 for loc p0118	A75-46037 iistance B75-19826 sil by B75-18736 seminars B75-26513 A75-45943 B75-21793 B75-25300 sating A75-35438 A75-22734
DIBTRICE, G. Buclear district-heating and nucle energy [JUL-1077] DIBTZERN, W. D. Profitability analysis of product waterflooding using a simulation [PB-237843/8] DINSDALE, R. Papers and proceedings of two energibers and proceedings of two energibers are greatly as a simulation [PB-239164/7] DIPASQUALE, R. Phosphoric acid fuel cell stack of the cell	08 ear 06 ng 07 eve 07 eve 07 07 06 iitic 08	p0194 long-d p0093 crude cechniqu p0088 crisis p0156 lopment p0186 p0128 p0149 for loc p0118 p0047 on of w p0175 f silk	A75-46037 iistance B75-19826 bil by B75-18736 seminars B75-26513 A75-45943 B75-21793 B75-25300 ating A75-35436 A75-22734 ater by
DISTRICE, G. Buclear district-heating and nucle energy [JUL-1077] DISTRIME, W. D. Profitability analysis of product waterflooding using a simulation [PB-237843/8] DINSDALE, K. R. Papers and proceedings of two energy production [PB-239164/7] DIPASQUALE, R. Phosphoric acid fuel cell stack of the constant of the cell stack of the	08 ear 06 ng 07 eve 07 eve 07 07 06 iitic 08	p0194 long-d p0093 crude cechniqu p0088 crisis p0156 lopment p0186 p0128 p0149 for loc p0118 p0047 on of w p0175 f silk	A75-46037 iistance B75-19826 sil by B75-18736 seminars B75-26513 A75-45943 B75-21793 B75-25300 sating A75-35438 A75-22734
DIETRICE, G. Buclear district-heating and nucle energy [JUL-1077] DIETRINE, W. D. Profitability analysis of product waterflooding using a simulation [PB-237843/8] DINSDALE, K. R. Papers and proceedings of two energes and proceedings of two energes are proceedings of two energes are producted in the control of the c	08 ear 06 ng 07 08 eve 08 etion 07 07 06 itic 08	p0194 long-d p0093 crude cechniqu p0088 crisis p0156 lopment p0186 p0128 p0149 for loc p0118 p0047 on of w p0175 f silk p0052	A75-46037 iistance B75-19826 bil by B75-18736 seminars N75-26513 A75-45943 A75-25300 ating A75-35436 A75-22734 seter by A75-44760
DISTRICE, G. Buclear district-heating and nucle energy [JUL-1077] DISTRIAN, W. D. Profitability analysis of product waterflooding using a simulation [PB-237843/8] DINSDALE, K. B. Papers and proceedings of two energy production [PB-239164/7] DIPASQUALE, B. Phosphoric acid fuel cell stack of the cell stack of th	08 ear 06 ng 07 08 eve 08 etion 07 07 06 itic 08	p0194 long-d p0093 crude cechniqu p0088 crisis p0156 lopment p0186 p0128 p0149 for loc p0118 p0047 on of w p0175 f silk p0052	A75-46037 iistance B75-19826 bil by B75-18736 seminars N75-26513 A75-45943 A75-25300 ating A75-35436 A75-22734 seter by A75-44760
DIETRICE, G. Buclear district-heating and nucle energy [JUL-1077] DIETRINE, W. D. Profitability analysis of product waterflooding using a simulation [PB-237843/8] DINSDALE, K. R. Papers and proceedings of two energes and proceedings of two energes are proceedings of two energes are producted in the control of the c	08 ear 06 ng (07 07 08 etion 07 06 itid 08 y 07	p0194 long-d p0093 crude cechniqu p0088 crisis p0156 lopment p0186 p0149 for loc p0118 p0047 on of w p0175 f silk	A75-46037 iistance B75-19826 bil by B75-18736 seminars N75-26513 A75-45943 A75-25300 ating A75-35436 A75-22734 seter by A75-44760

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DOUGLASS, R. H.
Phase 0 study for a geothermal superheated water
      proof of concept facility
                                                 06 p0102 B75-20858
DOUGLASS, R. H., JR.
Systems aspects of ocean thermal energy conversion
[AINA PAPER 75-615] 06 p0062 A75-28593
DOUBLEI, G. A.
Development of oil and gas on the Continental Shelf
                                                 06 p0062 A75-28593
      [GPO-31-891]
                                                 06 p0075 H75-16973
DOWDY, M. W.
Peasibility demonstration of a road vehicle fueled
      with hydrogen-enriched gasoline
                                                05 p0008 A75-10574
    An evaluation of discarded tires as a potential
      source of fuel
                                                 05 p0012 A75-12416
    An evaluation: The potential of discarded tires as a source of fuel
[NASA-TM-X-58143] 05 p0038 N75-15
                                                 05 p0038 N75-15153
DRABKIN, L. H.
    Thermodynamic analysis of a solar energy system
      with a closed-cycle gas-turbine converter
   06 p0009 175-23402 Thermodynamic analysis and parameter optimization
      of a solar thermoelectric power unit with radiation heat dissipation

[AD-A000211] 06 p0082 1
                                                 06 p0082 #75-17819
DRAKE, E.

Technology and current practices for processing,
and storing liquefied natural gas
      transferring and storing liquefied natural gas
[PB-241048/8] 08 p0202 B75-29271
DRAKE, S.
Energy policy and resource management [GPO-33-634] 07 partnership. J. E.
                                                07 p0149 #75-25300
    Dielectric power conversion
                                                 08 p0189 A75-45979
DRUMMOND, W. E.

Fusion power research - Where do we stand
                                                 05 p0013 A75-12995
   Energy problems in a global context
                                                06 p0075 N75-16978
   The analysis of the performance of a pancake
absorber-heat exchanger for a solar concentrator
[ASHE PAPER 74-WA/SOL-1] 05 p0018 A75-16884
Parametric performance and cost models for solar
      concentrators
                                                07 p0109 A75-29476
   Minimum cost solar thermal electric power systems
      - A dynamic programming based approach
07 p0112 A75-32097
DUFFIE, J. A.
    Simulation of a solar heating and cooling system
                                                 06 p0048 A75-23018
    Modeling of the CSU heating/cooling system
   07 points A75-29473
A method of simulation of solar processes and its
      application
   07 p0109 A75-29474
Hodeling of solar heating and air conditioning
      [PB-239189/4]
                                                 07 p0136 #75-22926
DUGAR, J. F., JR.
Future long-range transports - Prospects for improved fuel efficiency
[AIAA PAPER 75-316] 06 p0047 A
                                                 06 p0047 A75-22514
   Puture long-range transports: Prospects for improved fuel efficiency [MASA-TM-X-72659] 06 p0079 #
   [WASA-TH-X-72659]
Fuel-conservative engine technology
08 p0206 H75-31074
                                                 06 p0079 #75-17339
DUGGER, G. L.
    Tropical ocean thermal power plants and potential
      products
                                                06 p0064 A75-29116
       [AIAA PAPER 75-617]
    Solar energy for earth: An AIAA assessment
                                                07 p0110 A75-31267
   Ocean thermal energy conversion
                                                07 p0111 175-31274
DULBRY, G. H.
    Approximate analysis of the steady temperature
      field of a parallelepiped with a local energy
      source
                                                07 p0112 A75-32212
```

1

DUWARY, IU. A. Influence of the geometrical development of the cathode surface on the specific power of a thermionic converter with surface ionization	EDESKUTT, P. J. Cryogenics safety in a hydrogen fuel society 06 p0061 A75-27973
O8 p0173 A75-43860	EDGERTOW, C. D. The mine map repository: A source of mine map data [PB-240136/2] 07 p0148 H75-25286
Bureau of Mines research programs on recycling and disposal of mineral, metal, and energy-based	EDWARDS, A., JR. Report on studies of space to earth microwave
wastes [PB-227476/9] 05 p0042 H75-15203	power transmission systems [IAF PAPER 75-005] 08 p0183 A75-45814
DUBUAH, B. C. Air Porce experience in the use of liquid hydrogen as an aircraft fuel	<pre>BDWARDS, D. K. Natural convection in enclosed spaces - A review of application to solar energy collection</pre>
DURAND, H. 08 p0179 A75-44801	[ASME PAPER 74-WA/HT-12] 05 p0017 A75-16860 BGGEW, A. C. W.
The future of silicon solar cells for terrestrial use	Gasification of solid wastes in fixed beds [ASME PAPER 74-WA/PWR-10] 05 p0018 A75-16882
OG p0058 A75-27717	EGOROV, A. S. Laboratory semiautomatic infrared device for
Interplanetary spacecraft design using solar electric propulsion	determining the composition of petroleum products in sewage
[AIAA PAPER 74-1084] 05 p0010 A75-11283	07 p0125 A75-38648
High efficiency silicon solar cells 06 p0052 A75-24217 07AS, B. W.	Satellites for energy transmission to earth - Technical and socioeconomic studies 07 p0125 275-38644
Development of oil and gas on the Continental Shelf	BICKBOPP, H. G.
DYKSTRA, L. J. Solar sea power	Technological and commercial possibilities which result by using a high temperature reactor for the future supply of mineral oil in the FR
[PB-236997/3] 06 p0082 H75-17821 ZHALLIOV, B. B.	[JUL-1017-RG] 05 p0029 H75-11470 BISEN, P. S.
Pull-scale tests of 'photovolt' high-voltage photocells at high light flux levels 07 p0122 A75-37162	Preparation of gas turbine engine fuel from synthetic crude oil derived from coal [AD-A007923] 07 p0147 #75-24966
Pull-scale testing of high-voltage photocells of fotovolt type at elevated light flux levels 08 p0210 N75-32590	BISEBBUT, J. C Impact of future use of electric cars in the Los Angeles region. Volume 2: Task reports on
ZITORY, H. S. Bffectiveness of using chemically reacting working	electric car characterization and baseline projections
media in a solar gas-turbine installation 08 p0180 A75-45063	[PB-230878/3] 07 p0131 #75-22200 Impact of future use of electric cars in the Los Angeles region. Volume 3: Task reports on
E	impact and usage analysis [PB-238879/1] 07 p0131 N75-22201
RASTER, R. W. Predicted energy densities for nickel-hydrogen and silver-hydrogen cells embodying metallic	EISEESTADT, H. H. Hydrogen production from solar energy 07 p0109 A75-29477
hydrides for hydrogen storage 05 p0008 A75-10572	RL-MESSIDI, A. E. S. A. Oil displacement by different surfactant and
ASTON, C. R. Evaluation of central solar tower power plant 05 p0003 A75-10515	polymer waterflood systems 07 p0134 E75-22858 ELDER, C. B.
Evaluation of central solar tower power plant 07 p0116 A75-34531	Degasification of the Mary Lee coalbed near Oak Grove, Jefferson County, Alabama, by vertical
The selection and use of energy storage for solar	borehole in advance of mining
thermal electric application	[BH-RI-7968] 05 p0028 N75-11462
08 p0189 A75-45980	
08 p0189 A75-45980	[BH-RI-7968] 05 p0028 N75-11462 ELDERS, W. A.
CERRIB, J. Continued development of energy transmission and conversion systems [PB-236181/4] 05 p0037 N75-14278	[BH-RI-7968] 05 p0028 H75-11462 BLDBRS, W. A. Geophysical, geochemical, and geological investigations of the Dunes geothermal system, Imperial Valley, California [IGPP-UCR-74-31] 06 p0098 H75-20836
CKERLE, J. Continued development of energy transmission and conversion systems [PB-236181/4] CKERT, B. B. G. Solar-thermal electric power generation using a system of distributed parabolic trough collectors	[BH-RI-7968] 05 p0028 H75-11462 ELDERS, W. A. Geophysical, geochemical, and geological investigations of the Dunes geothermal system, Imperial Valley, California [IGPP-UCR-74-31] 06 p0098 H75-20836 ELIASON, J. T. Photovoltaic cell array [HASA-CASE-HFS-22458-1] 07 p0134 B75-22900
CEBRLE, J. Continued development of energy transmission and conversion systems [PB-236181/4] CEBRT, B. G. Solar-thermal electric power generation using a system of distributed parabolic trough collectors [AICHE PAPER 12] Proceedings of the Solar Thermal Conversion Workshop	[BH-RI-7968] 05 p0028 H75-11462 BLDBRS, W. A. Geophysical, geochemical, and geological investigations of the Dunes geothermal system, Imperial Valley, California [IGPP-UCR-74-31] 06 p0098 H75-20836 BLIASOH, J. T. Photovoltaic cell array [NASA-CASE-HFS-22458-1] 07 p0134 B75-22900 BLLIOTT, G. R. B. Electrochemical heat engines for direct electric
CEBRLE, J. Continued development of energy transmission and conversion systems [PB-236181/4] CKERT, B. B. G. Solar-thermal electric power generation using a system of distributed parabolic trough collectors [AICHE PAPER 12] Proceedings of the Solar Thermal Conversion Workshop (PB-239277/7) CEBRT, G. W. Bydrocarbon power fuel from the gasoline boiling	[BB-RI-7968] 05 p0028 H75-11462 BLDERS, W. A. Geophysical, geochemical, and geological investigations of the Dunes geothermal system, Imperial Valley, California [IGPP-UCR-74-31] 06 p0098 H75-20836 BLIASOH, J. T. Photovoltaic cell array [HASA-CASE-MFS-22458-1] 07 p0134 H75-22900 BLICOTT, G. R. B. Electrochemical heat engines for direct electric power generation and energy storage [AIAA PAPER 75-1237] 08 p0182 A75-45649 BLLIOTT, J.
CEBRIE, J. Continued development of energy transmission and conversion systems [PB-236181/4] CEBRI, B. B. G. Solar-thermal electric power generation using a system of distributed parabolic trough collectors [AICHE PAPER 12] Proceedings of the Solar Thermal Conversion Workshop [PB-239277/7] CEBRI, G. W. Bydrocarbon power fuel from the gasoline boiling range [WASS-TI-F-16399] O7 p0147 E75-24957	[BB-RI-7968] 05 p0028 H75-11462 BLDERS, W. A. Geophysical, geochemical, and geological investigations of the Dunes geothermal system, Imperial valley, California [IGPP-UCR-74-31] 06 p0098 H75-20836 BLIASOB, J. T. Photovoltaic cell array [HASA-CASE-HFS-22458-1] 07 p0134 B75-22900 BLLIOTT, G. R. B. Blectrochemical heat engines for direct electric power generation and energy storage [AIAA PAPER 75-1237] 08 p0182 A75-45649 BLLIOTT, J. An analysis of constraints on increased coal production
CKERLE, J. Continued development of energy transmission and conversion systems [PB-236181/4] CKERT, B. B. G. Solar-thermal electric power generation using a system of distributed parabolic trough collectors [AICHE PAPER 12] Proceedings of the Solar Thermal Conversion Workshop [PB-239277/7] CKERT, G. W. Bydrocarbon power fuel from the gasoline boiling range [BASA-TI-F-16399] CKERT, J. A. Photogalvanic cells	[BB-RI-7968] 05 p0028 H75-11462 BLDERS, W. A. Geophysical, geochemical, and geological investigations of the Dunes geothermal system, Imperial Valley, California [IGPP-UCR-74-31] 06 p0098 H75-20836 BLIASOB, J. T. Photovoltaic cell array [HASA-CASE-HPS-22458-1] 07 p0134 H75-22900 BLLIOTT, G. B. B. Electrochemical heat engines for direct electric power generation and energy storage [AIAA PAPER 75-1237] 08 p0182 A75-45649 BLLIOTT, J. An analysis of constraints on increased coal production [PB-240613/0] 07 p0157 H75-26525 BLLIS, D.
CEBRIE, J. Continued development of energy transmission and conversion systems [PB-236181/4] CEBRI, B. B. G. Solar-thermal electric power generation using a system of distributed parabolic trough collectors [AICHE PAPER 12] Proceedings of the Solar Thermal Conversion Workshop [PB-239277/7] CEBRI, G. W. Hydrocarbon power fuel from the gasoline boiling range [WASA-TT-F-16399] CEBRI, J. A. Photogalvanic cells OR p0167 A75-39403 CEBOF, B. D. Am engineering assessment of the hydrogen economy	[BB-RI-7968] 05 p0028 H75-11462 BLDERS, W. A. Geophysical, geochemical, and geological investigations of the Dunes geothermal system, Imperial Valley, California [IGPP-UCR-74-31] 06 p0098 H75-20836 BLIASON, J. T. Photovoltaic cell array [HASA-CASE-HPS-22458-1] 07 p0134 H75-22900 BLLIOTT, G. R. B. Electrochemical heat engines for direct electric power generation and energy storage [AIAA PAPER 75-1237] 08 p0182 A75-45649 BLLIOTT, J. An analysis of constraints on increased coal production [PB-240613/0] 07 p0157 H75-26525 BLLIS, D. An analysis of constraints on increased coal
O8 p0189 A75-45980 ECEBBLE, J. Continued development of energy transmission and conversion systems [PB-236181/4] ECEBBLE, B. G. Solar-thermal electric power generation using a system of distributed parabolic trough collectors [AICHE PAPER 12] Proceedings of the Solar Thermal Conversion Workshop [PB-239277/7] ECEBBLE, G. W. Bydrocarbon power fuel from the gasoline boiling range [BASA-TI-F-16399] CEEBBLE, J. A. Photogalvanic cells O8 p0167 A75-39403 ECEBOTF, W. D. An engineering assessment of the hydrogen economy O8 p0180 A75-44814 DELBAUB, T. W. Effect of attitude constraints on solar-electric	[BB-RI-7968] 05 p0028 875-11462 BLDERS, W. A. Geophysical, geochemical, and geological investigations of the Dunes geothermal system, Imperial Valley, California [IGPP-UCR-74-31] 06 p0098 875-20836 BLIASOB, J. T. Photovoltaic cell array [HASA-CASE-HFS-22458-1] 07 p0134 875-22900 BLIOTT, G. B. B. Electrochemical heat engines for direct electric power generation and energy storage [AIAA PAPER 75-1237] 08 p0182 A75-45649 BLIOTT, J. An analysis of constraints on increased coal production [PB-240613/0] 07 p0157 875-26525 BLLIS, D. An analysis of constraints on increased coal *production [PB-240613/0] 07 p0157 875-26525 BLS; R. V., JE. SEPS solar array design and technology evaluation 08 p0192 A75-46016
O8 p0189 A75-45980 ECEBRIE, J. Continued development of energy transmission and conversion systems [PB-236181/4] ECEBRIE, B. B. G. Solar-thermal electric power generation using a system of distributed parabolic trough collectors [AICHE PAPER 12] Proceedings of the Solar Thermal Conversion Workshop [PB-239277/7] ECEBRIE, G. W. Bydrocarbon power fuel from the gasoline boiling range [BASA-TT-F-16399] ECEBRIE, J. A. Photogalvanic cells O8 p0167 A75-39403 ECEBOTP, W. D. An engineering assessment of the hydrogen economy O8 p0180 A75-44814 EDELBAUB, T. W. Effect of attitude constraints on solar-electric geocentric transfers [AIAA PAPER 75-350] O6 p0055 A75-24957	[BB-RI-7968] 05 p0028 N75-11462 BLDERS, W. A. Geophysical, geochemical, and geological investigations of the Dunes geothermal system, Imperial Valley, California [IGPP-UCR-74-31] 06 p0098 N75-20836 BLIASON, J. T. Photovoltaic cell array [HASA-CASE-MFS-22458-1] 07 p0134 N75-22900 BLLIOTT, G. R. B. Electrochemical heat engines for direct electric power generation and energy storage [AIAA PAPER 75-1237] 08 p0182 A75-45649 BLLIOTT, J. An analysis of constraints on increased coal production [PB-240613/0] 07 p0157 N75-26525 BLLIS, D. An analysis of constraints on increased coal Production [PB-240613/0] 07 p0157 N75-26525 BLES; R. V., JB. SEPS solar array design and technology evaluation
CEBBLE, J. Continued development of energy transmission and conversion systems [PB-236181/4] Continued development of energy transmission and conversion systems [PB-236181/4] CKEBET, B. B. G. Solar-thermal electric power generation using a system of distributed parabolic trough collectors [AICHE PAPER 12] CHERT, G. W. Bydrocarbon gover fuel from the gasoline boiling range [BASA-TT-F-16399] CKEBET, J. A. Photogalvanic cells OR p0167 A75-39403 CKEROFF, W. D. An engineering assessment of the hydrogen economy OR p0180 A75-44814 CELECT G. W. Reflect of attitude constraints on solar-electric geocentric transfers [AIAA PAPER 75-350] CEARTER, F. Transverse header heat pipe [AIAA PAPER 75-656] OF p0114 A75-32914	ELDERS, W. A. Geophysical, geochemical, and geological investigations of the Dunes geothermal system, Imperial Valley, California [IGPP-UCR-74-31] 06 p0098 #75-20836 BLIASON, J. T. Photovoltaic cell array [HASSA-CASE-HFS-22458-1] 07 p0134 #75-22900 BLLIOTT, G. R. B. Electrochemical heat engines for direct electric power generation and energy storage [AIAN PAPER 75-1237] 08 p0182 A75-45649 BLLIOTT, J. An analysis of constraints on increased coal production [PB-240613/0] 07 p0157 #75-26525 BLLIS, D. An analysis of constraints on increased coal production [PB-240613/0] 07 p0157 #75-26525 BLLIS, R. V., JB. SEPS solar array design and technology evaluation 08 p0192 A75-46016 ELSHER, B. B. Radioisotope space power generator [GA-A-12848] 05 p0038 #75-14832 BLSTON, L. B. Parametric study for a pyrolytic system for
CEBBLE, J. Continued development of energy transmission and conversion systems [PB-236181/4] Continued development of energy transmission and conversion systems [PB-236181/4] CEBBLE, B. B. G. Solar-thermal electric power generation using a system of distributed parabolic trough collectors [AICHE PAPER 12] Proceedings of the Solar Thermal Conversion Workshop [PB-239277/7] CEBBLE, G. W. Hydrocarbon power fuel from the gasoline boiling range [WASA-TT-F-16399] CEBBLE, J. A. Photogalvanic cells 08 p0167 A75-39403 CEBOTF, W. D. An engineering assessment of the hydrogen economy 08 p0180 A75-40814 DELBAUB, T. W. Effect of attitude constraints on solar-electric geocentric transfers [AIAA PAPER 75-350] DELSTEIF, F. Transverse header heat pipe	[BB-RI-7968] 05 p0028 R75-11462 RLDERS, W. A. Geophysical, geochemical, and geological investigations of the Dunes geothermal system, Imperial Valley, California [IGPP-UCR-74-31] 06 p0098 R75-20836 BLIASON, J. T. Photovoltaic cell array [HASA-CASE-MFS-22458-1] 07 p0134 R75-22900 BLLIOTT, G. R. B. Blectrochemical heat engines for direct electric power generation and energy storage [AIAA PAPER 75-1237] 08 p0182 A75-45649 BLLIOTT, J. An analysis of constraints on increased coal production [PB-240613/0] 07 p0157 R75-26525 BLIS, D. An analysis of constraints on increased coal production [PB-240613/0] 07 p0157 R75-26525 BLIS, R. V., JB. SEPS solar array design and technology evaluation 08 p0192 A75-46016 ELSER, B. B. Radioisotope space power generator [GA-A-12848] 05 p0038 R75-14832

Influence of the geometrical development of the cathode surface on the specific power of a thermionic converter with surface ionization 08 p0173 A75-43860 Assessment of uranium and thorium resources in the United States and the effect of policy alternatives [PB-238658/9] 07 p0143 N75-24133 Study of potential problems and optimum opportunities in retrofitting industrial processes to low and intermediate energy gas from coal [PB-237116/9] 06 n0088 N75-18739 ENINGER, J. E.
Capillary flow through heat-pipe wicks
[AIAA PAPER 75-661] 07 pc 07 p0114 A75-32919 BNOS, G.
Recent HHD generator testing at Avco Everett
Research Laboratory, Inc
[ASHE PAPER 74-WA/EMER-7]
05 p0016 A 05 p0016 A75-16839 BPSTBÌN, N. Powerplant energy management
[AIAA PAPER 74-1066] 05 m0001 A75-10259 BRHEROV, M. A.

The influence of the petrology of the Karagandin coals on their methane contents
[BLL-BTS-9309]

07 p0158 E75-2 07 p0158 N75-27511 ERBOLIFA, B. I.

Approximate analysis of the steady temperature field of a parallelepiped with a local energy 07 p0112 A75-32212 ESCHER, W. J. D.
Ocean based solar-to-hydrogen energy conversion macro system 08 p0175 175-44764
Liquid hydrogen - Future aircraft fuel:
Background, payoff, and cryogenic engineering
challenge 08 p0195 A75-47081 ESHAB, V. I. Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 ESHEB. H. A. Environmental aspects of cadmium sulfide usage in solar energy conversion. Part 1: Toxicological and environmental health considerations, a bibliography [PB-238285/1] 06 p0105 N75-20884 ESTRADE, S. The utilization of space as a source of energy for the earth 08 p0183 A75-45893 Terrestrial photovoltaic power systems with sunlight concentration [PB-238582/1] 06 p0105 N75-20886 BVAIS, J. Y. G. A generalised analysis of the performance of a wariety of drive systems for high Reynolds number, transonic wind tunnels
[RAE-TR-73134] 06 p0073 H75 06_p0073 N75-16572 EVANS, R. S. Bnergy plantations: Should we grow trees for power plant fuel?
[VP-X-129] 05 p0030 N75-12436 Energy plantations: Should we grow trees for power plant fuel [PB-238417/0] 07 p0130 N75-21815 EV DOKIHOV, V. H. Investigation of photoelectric converter operation under conditions of strong illumination 07 p0119 A75-36015 Operation of photoconverters under conditions of strong illumination 08 p0170 A75-41538 EVERETT, J. R.

Evaluation of the suitability of Skylab data for the purpose of petroleum exploration
[275-10257]

Or p0147 H75-2

Regional economics: A subset of simulation of the effects of coal-fired power development in the

EVERETT, W. L.

four corners region

07 p0147 #75-25237

06 p0107 N75-21153

BERA, A. A. A, a. a. Technology utilization - Incentives and solar energy 06 p0048 A75-22913 FABREGA, S. A generalization of the Carnot theorem - The theorem of useful power 06 p0057 A75-26448 PARSER, R. J. Development and evaluation of a Stirling-Cycle energy conversion system [PB-239086/2] 07 p0136 #75-22918 PAGEN, T. J.
A high-speed superconducting generator 06 p0060 175-27960 II-VI photovoltaic heterojunctions for solar energy conversion 05 p0012 A75-12734 PAIRBANKS, D. R. A computer program to determine the optimum configuration of solar assisted building heating and cooling systems based upon life-cycle cost 08 p0186 A75-45941 Proceedings of 5th annual symposium: Energy Research and Development [AD-A007799] 07 p0144 N75-24142 PALHES, J. A resonant point absorber of ocean-wave power 08 p0170 A75-41425 PAN, J. C. C.
Beat mirrors for solar-energy collection and radiation insulation 05 p0004 A75-10525 Transparent heat-mirror films of TiO2/Ag/TiO2 for solar energy collection and radiation insulation 05 p0015 A75-16378 PANG, P. H.
Analysis of conversion efficiency of organic-semiconductor solar cells 05 p0010 A75-11146 Columnar silicon film solar cells for terrestrial applications [PB-238534/2] 07 p0135 N75-22916 PARBER, B. A.
A case study - Utilization of solar energy in residential dwellings
[ASME PAPPE 74-WA/SOL-2]

Selection and evaluation of the University of Plorida's solar powered absorption air 05 p0018 A75-16885 Plorida's solar powered accordance of conditioning system
[ASME PAPER 74-WA/SOL-6] 05 p0019 A75-16889
Beating buildings with solar energy
07 p0117 A75-34933 Solar characteristics of new absorptive coatings 07 p0117 A75-34934 Hethodology of research of flat-plate solar collector absorptive coatings used on solar collectors The University of Florida solar powered intermittent ammonia/water absorption air 07 p0118 A75-34936 Pormulation of a data base for the analysis, evaluation and selection of a low temperature solar powered air conditioning system
[PB-238683/7] 07 p0136 B75-22928 PARRHAM, G. H.
Application of nuclear rocket technology to light
weight nuclear propulsion and commercial nuclear process heat systems
[ATAM PAPER 75-1261] 08 p0182

FARRER, M. H.
Feasibility study of alternative fuels for 08 p0182 A75-45661 automotive transportation. Volume 1: Executive SUBMARY
[PB-235581/6]
Peasibility study of alternative fuels for 05 p0041 N75-15187 automotive transportation. Volume 2: Technical section Section 05 pure 1875-15.15 Peasibility study of alternative fuels and automotive transportation. Volume 3: Appendices 05 p0041 875-15189

Effects of changing the proportio distillate and gasoline produce refining	d by petroleum	FIREGOLD, J. B. Engine performance with gasoline as comparative study	-
[PB-236900/7] PARRIS, P. J.	06 p0085 N75-18443	PIHEGOLD, J. G.	08 p0177 175-44787
The PCG-1 fuel cell powerplant fo utility use		Liquid hydrogen as an automotive for	06 p0048 175-23238
n.47777 'T 8	05 p0013 A75-12992	Automotive hydrogen engines, and or	nboard storage
PATRIEV, Y. S. Wind power installations. Presen	t condition and	methods	08 p0172 A75-42284
possible lines of development		PISCHER, H.	
[NASA-TT-F-16204]	07 p0128 N75-21796	Improvements in analysis and techno	
Wind engines and wind installatio [NASA-TT-P-16170]	os 07 p0135 N75-22904	solar cells with increased effici	lency 06_p0051 A75-24216
PAUCETT, H. L.		PISCHER, H. C.	, poost 213 24210
Evaluation of fixed bed, low BTU		The annual cycle energy system	
systems for retrofitting power [PB-241672/5] PAUDE, D.	08 p0211 #75-32602	PISCHER, W. Energy sources for ocean technology	08 p0187 A75-45947
Energy and the environment in Bad	en-Wuerttemberg		7 p0114 A75-33118
[KPK-1966-UF]	05 pQ030 B75-12439	PISH, J. D.	
PAUST, C. Geothermal reservoir simulation		Utilization of plasma exhaust energing production	y for fuel
Geother ad Test Toll Statistics	06 p0101 N75-20852		5 p0028 N75-11465
PROORUK, W.		FISHELSON, G.	
A study of energy systems command communication for energy crisis		Environmental regulations and energy heating	y for home
[PB-239290/0]	07 p0136 N75-22927		8 p0203 N75-29587
PEDOTOV, V.	•	PISHER, E. A.	
Standardized wind electric power ([AD-783764]	05 p0025 N75-10598	Propulsion units for high speed shi	ps .
PEGLEY, K. A.		[JPRS-64897] PITZPATRICK, G. O.	11 holdo #12-52522
The residential user and the elec-	trical load factor	Thermionic topping of electric power	
	07 p0145 N75-24152	PLECHON, J.	08 p0189 A75-45973
PRIM, E. The Hydrogen Economy - A utility	perspective .	Thermokinetics of a flat solar coll	ector of
	05 p0014 A75-12998	constant heat capacity	
<pre>Hydrogen economy: A utility pers [BNL-19267]</pre>	pective 06 p0103 N75-20870	PLEMING. W. S.	8 p0171 A75-41768
PRJER. H. E.	to bolles are more	Economic and energy conservation re	lationship
Study of industrial uses of energ	y relative to	relevant to state of New York bui	
environmental effects [PB-237215/9]	06 p0084 N75-17853	and contract awards [PB-237006/2]	6 p0082 N75-17824
PRITOR, L. A.	·	PLORSCHUETZ, L. W.	o poto2 200 17024
Energy conservation: A case study	y for a large	Terrestrial photovoltaic power syst	ens with
manufacturing plant [PB-239302/3]	07 p0151 N75-25323	sunlight concentration [PB-238582/1] 0	6 p0105 N75-20886
PERTOR, P. E.		PLYNN, T. H.	o po 100 210 2000
Low-BTU gasification of coal for	electric power	Selected topics on hydrogen fuel	
generation [PB-236972/6]	06 p0088 #75-18740	[COH-75-10619/5] OF POLEY, G. H.	8 p0207 N75-31575
PERDEN, S. L.		Transparent heat-mirror films of Ti	
The Energy Systems Optimization Co /ESOP/ developed for Modular In-		solar energy collection and radia	tion insulation 5 p0015 A75-16378
Systems /MIUS/ analysis	regrated bulling	PORESTIERI, A. P.	. hoo in a in-10210
	05 p0006 A75-10551	Terrestrial applications of FEP-enc	apsulated solar
PERHANDES, R. A. Hydrogen cycle peak-shaving for el	lectric utilities	cell modules	6 p0054 A75-24258
	05 p0005 A75-10535	The effect of sunshine testing on t	
PERBAR, T. A.		solar cell system components	
Financial incentives and pollution case study	Control: A	The effect of sunshine testing on t	7 p0123 175-37396 errestrial
[PB-241479/5]	08 p0208 #75-31610	solar cell system components	
FERRILL, R. S. Evaluation of advanced lift concep	te and fuel		7 p0140 N75-24109
conservative short-haul aircraft		PORSHAH, B. V. Development and performance of a mi	niature,
[NASA-CR-137525]	06 p0096 #75-20291	high-voltage thermal battery	
Evaluation of advanced lift concerconservative short-haul aircraft		0 Development and performance of a mi	5 p0007 A75-10559
[HASA-CR-137526]	06 p0097 #75-20292	high-voltage thermal battery	
PRIKOVICE, J.			6 p0076 N75-16988
foam solar sea power plant	07 p0124 A75-37850	PORTESCUE, P. Component design considerations for	gas turbine
FICKETT, A. P.	1- 10 ,	HTGR power plant	,
mydrogen generation by solid-polym	er electrolyte		7 p0116 A75-34620
water electrolysis	08 p0177 #75-44777	FORTURE, M. A. Industrial energy study of the Indu	strial
PILATOV, A. I.		chemicals group	
Effectiveness of using semiconduct under the conditions of the Turk		[PB-236322/4] 0 Data base for the industrial energy	6 p0071 N75-16111
suffer the constraint of the intr	05 p0020 A75-17083	industrial chemicals group	nearl or ene
PILBY, B. B.		[PB-237845/3] 0	6 p0087 N75-18732
possibilities for lithium borohydr [ICP-1054]	nde recycle . 06 p0074 #75-16651	FOURAKIS, R. Dynamic conversion of solar generat	ed heat to
PILKOV, V. H.	<u>.</u>	electricity	
Scientific research in power engin			6 p0066 N75-16079
[JPRS-65422]	08 p0205 #75-30648		

OWLER, C. D.	
Solar heating experiment on the Gr	cover Cleveland
School, Boston, Massachusetts	
[PB-239516/8]	07 p0155 N75-26505
RAAS, A. P.	
Small coal burning gas turbine for	modular
integrated utility systems	
	05 p0006 A75-10546
Conceptual design of a series of 1	laser-Iusion
power plants of 100 to 3000 HW/e	05 -0007 175 10560
	05 p0007 A75-10562
Comparative performance characteri	
cylindrical parabolic and flat penergy collectors	late solar
[ASME PAPER 74-WA/ENER-3]	05 p0016 A75-16835
Porecepable thermal mechanical s	and materials
Poreseeable thermal, mechanical, a engineering problems of fusion a	reactor nower
plants	court posses
[SMRT PAPER A2/1]	06 p0046 A75-21713
Design study for a coal-fueled clo	
turbine system for MIUS applicat	ions
	08 p0187 A75-45948
Survey of gas and cil burners for	use with
NSP/RANN-ORNL potassium boiler	:
(ORNL-NSF-EP-45)	06 p0087 N75-18728
Operational, maintenance, and envi	ironmental
problems associated with a fossi	il fuel-fired
potassium steam binary vapor cyc	cle
(ORNL-MSF-RP-30]	06 p0090 N75-18769
Comparative performance character:	istics of
cylindrical parabolic focusing a	and flat plate
solar energy collectors	
[CONF-741104-3]	06 p0103 N75-20872
PRAIZE, W. B.	
Transportation energy conservation	
plan of policy-oriented research	
[PB-240734/4.]	08 p0200 N75-28528
PRANCIS, E. J. Tropical ocean thermal power plant	
rropical ocean thermal power plant	ts and potential
products	06 p0064 A75-29116
[AIAA PAPER 75-617] PRANK, A. A.	06 p0004 E75-29116
Increased fuel economy in transport	-tation evetame
	Lation bloccmo
hy nee of energy management Vo	
by use of energy management. Vo	
results and discussion	olume 1: General
results and discussion [PB-240220/4]	
results and discussion [PB-240220/4] FRANKLIN, B.	Olume 1: General 07 p0163 H75-27970
results and discussion [PB-240220/4]	olume 1: General 07 p0163 #75-27970 erator
results and discussion [PB-240220/4] PRANKLIN, B. The Harwell thermo-mechanical gene	Olume 1: General 07 p0163 H75-27970
results and discussion [PB-240220/4] FRANKLIN, B. The Harwell thermo-mechanical gene FRANZEN, D.	Olume 1: General 07 p0163 #75-27970 erator 05 p0009 #75-10579
results and discussion [PB-240220/4] PRANKLIN, B. The Harwell thermo-mechanical gene	Olume 1: General 07 p0163 #75-27970 erator 05 p0009 #75-10579
results and discussion [PB-240220/4] FRANKLIN, B. The Harwell thermo-mechanical gene FRANZEN, D. National Bureau of Standards annu-	Olume 1: General 07 p0163 #75-27970 erator 05 p0009 #75-10579
results and discussion [PB-240220/4] FRANKLIN, B. The Harwell thermo-mechanical gene PRANZEN, D. National Bureau of Standards annua Piscal year 1974	olume 1: General 07 p0163 #75-27970 erator 05 p0009 #75-10579 al report:
results and discussion [PB-240220/4] FRANKLIN, B. The Harwell thermo-mechanical gene PRANZEM, D. National Bureau of Standards annu- Piscal year 1974 [COB-75-10465/3] FREBHAN, T. L. A method of simulation of solar pi	OT p0163 H75-27970 erator 05 p0009 A75-10579 al report: 08 p0206 H75-30948
results and discussion [PB-240220/4] FRANKLIN, B. The Harwell thermo-mechanical gene FRANZEN, D. National Bureau of Standards annua Fiscal year 1974 [COM-75-10465/3] FREEBAN, T. L.	olume 1: General 07 p0163 H75-27970 erator 05 p0009 A75-10579 al report: 08 p0206 H75-30948 rocesses and its
results and discussion [PB-240220/4] FRANKLIB, B. The Harwell thermo-mechanical gene FRANZEN, D. National Bureau of Standards annua Fiscal year 1974 [COM-75-1045/3] FREEMAN, T. L. A method of simulation of solar prapplication	OT p0163 H75-27970 erator 05 p0009 A75-10579 al report: 08 p0206 H75-30948
results and discussion [PB-240220/4] FRANKLIN, B. The Harwell thermo-mechanical gene FRANZEN, D. National Bureau of Standards annua Fiscal year 1974 [COM-75-10465/3] FREEMAN, T. L. A method of simulation of solar prapplication PREMY, J.	Olume 1: General 07 p0163 H75-27970 erator 05 p0009 A75-10579 al report: 08 p0206 H75-30948 rocesses and its 07 p0109 A75-29474
results and discussion [PB-240220/4] FRANKLIB, B. The Harwell thermo-mechanical gene FRANZEN, D. National Bureau of Standards annua Fiscal year 1974 [COM-75-1045/3] FREEMAN, T. L. A method of simulation of solar prapplication	Olume 1: General 07 p0163 H75-27970 erator 05 p0009 A75-10579 al report: 08 p0206 H75-30948 rocesses and its 07 p0109 A75-29474 at solar array
results and discussion [PB-240220/4] FRANKLI, B. The Harwell thermo-mechanical gene FRANZEN, D. National Bureau of Standards annua Fiscal year 1974 [COM-75-1045/3] FREEMAN, T. L. A method of simulation of solar prapplication PREMY, J. Development of a flexible, fold-or	Olume 1: General 07 p0163 H75-27970 erator 05 p0009 A75-10579 al report: 08 p0206 H75-30948 rocesses and its 07 p0109 A75-29474
results and discussion [PB-240220/4] FRANKLIB, B. The Harwell thermo-mechanical gene FRANZEN, D. National Bureau of Standards annua Fiscal year 1974 [COM-75-10465/3] FREMAN, T. L. A method of simulation of solar prapplication PREMY, J. Development of a flexible, fold-on PRETTER, E. P.	Olume 1: General 07 p0163 H75-27970 erator 05 p0009 A75-10579 al report: 08 p0206 H75-30948 rocesses and its 07 p0109 A75-29474 at solar array 06 p0053 A75-24252
results and discussion [PB-240220/4] FRANKLE, B. The Harwell thermo-mechanical gene FRANZEN, D. National Bureau of Standards annua Fiscal year 1974 [COM-75-10465/3] FREEMAN, T. L. A method of simulation of solar prapplication PREMY, J. Development of a flexible, fold-on PRETTER, E. P. Report on progress in achieving di	Olume 1: General 07 p0163 H75-27970 erator 05 p0009 A75-10579 al report: 08 p0206 H75-30948 cocesses and its 07 p0109 A75-29474 at solar array 06 p0053 A75-24252 irect conversion
results and discussion [PB-240220/4] FRANKLIB, B. The Harwell thermo-mechanical gene FRANZEN, D. National Bureau of Standards annua Fiscal year 1974 [COM-75-1045/3] FREEMAN, T. L. A method of simulation of solar prapplication FREET, J. Development of a flexible, fold-on FREETIER, B. F. Report on progress in achieving doof a major fraction of sonic flexible	Olume 1: General 07 p0163 H75-27970 erator 05 p0009 A75-10579 al report: 08 p0206 H75-30948 rocesses and its 07 p0109 A75-29474 at solar array 06 p0053 A75-24252 irect conversion ow kinetic power
results and discussion [PB-240220/4] FRANKLIB, B. The Harwell thermo-mechanical gene FRANZEN, D. National Bureau of Standards annua Fiscal year 1974 [COM-75-10465/3] FREMAN, T. L. A method of simulation of solar prapplication PREMY, J. Development of a flexible, fold-on PRETIER, E. P. Report on progress in achieving drawn of a major fraction of sonic flexible of a major fraction of sonic flexible into electrical power by electrical	Olume 1: General 07 p0163 H75-27970 erator 05 p0009 A75-10579 al report: 08 p0206 H75-30948 rocesses and its 07 p0109 A75-29474 at solar array 06 p0053 A75-24252 irect conversion ow kinetic power
results and discussion [PB-240220/4] FRANKLIB, B. The Harwell thermo-mechanical gene FRANZEN, D. National Bureau of Standards annua Fiscal year 1974 [COM-75-1045/3] FREEMAN, T. L. A method of simulation of solar prapplication FREET, J. Development of a flexible, fold-on FREETIER, B. F. Report on progress in achieving doof a major fraction of sonic flexible	olume 1: General 07 p0163 H75-27970 erator 05 p0009 A75-10579 al report: 08 p0206 H75-30948 cocesses and its 07 p0109 A75-29474 at solar array 06 p0053 A75-24252 irect conversion ow kinetic power offluid dynamic
results and discussion [PB-240220/4] FRANKLIB, B. The Harwell thermo-mechanical gene FRANZEN, D. National Bureau of Standards annua Fiscal year 1974 [COB-75-10465/3] FREEMAN, T. L. A method of simulation of solar prapplication FREEN, J. Development of a flexible, fold-on FREETIER, R. P. Report on progress in achieving do of a major fraction of sonic flexinto electrical power by electro /EFD/ processes	Olume 1: General 07 p0163 H75-27970 erator 05 p0009 A75-10579 al report: 08 p0206 H75-30948 rocesses and its 07 p0109 A75-29474 at solar array 06 p0053 A75-24252 irect conversion ow kinetic power
results and discussion [PB-240220/4] FRANKLI, B. The Harwell thermo-mechanical gene FRANZEN, D. National Bureau of Standards annua Fiscal year 1974 [COM-75-10465/3] FREEMAN, T. L. A method of simulation of solar prapplication PREBI, J. Development of a flexible, fold-on PRETIER, B. P. Report on progress in achieving drops of a major fraction of sonic flexible into electrical power by electro /EFD/ processes PRIEDEL, R. A.	Olume 1: General 07 p0163 H75-27970 erator 05 p0009 A75-10579 al report: 08 p0206 H75-30948 rocesses and its 07 p0109 A75-29474 at solar array 06 p0053 A75-24252 irect conversion ow kinetic power offluid dynamic 05 p0009 A75-10576
results and discussion [PB-240220/4] FRANKLE, B. The Harwell thermo-mechanical gene FRANZEN, D. National Bureau of Standards annua Fiscal year 1974 [COM-75-10465/3] FREEMAN, T. L. A method of simulation of solar prapplication PREMY, J. Development of a flexible, fold-on PRETTER, R. P. Report on progress in achieving di of a major fraction of sonic fleinto electrical power by electro /FFD/ processes PRIEDEL, R. A. Hass spectrometric analysis of pre	Olume 1: General 07 p0163 H75-27970 erator 05 p0009 A75-10579 al report: 08 p0206 H75-30948 rocesses and its 07 p0109 A75-29474 at solar array 06 p0053 A75-24252 irect conversion ow kinetic power offluid dynamic 05 p0009 A75-10576
results and discussion [PB-240220/4] FRANKLE, B. The Harwell thermo-mechanical gene FRANZEN, D. National Bureau of Standards annua Fiscal year 1974 [COM-75-10465/3] FREEMAN, T. L. A method of simulation of solar prapplication FRENT, J. Development of a flexible, fold-on FRETTER, R. P. Report on progress in achieving dof a major fraction of sonic flexinto electrical power by electro FETD/ processes FRIEDEL, R. A. Hass spectrometric analysis of precoal gasification	Olume 1: General 07 p0163 H75-27970 Brator 05 p0009 A75-10579 al report: 08 p0206 H75-30948 rocesses and its 07 p0109 A75-29474 at solar array 06 p0053 A75-24252 irect conversion by kinetic power offluid dynamic 05 p0009 A75-10576 oduct water from
results and discussion [PB-240220/4] FRANKLIB, B. The Harwell thermo-mechanical gene FRANZEN, D. National Bureau of Standards annua Fiscal year 1974 [COM-75-10465/3] FREEMAN, T. L. A method of simulation of solar prapplication PREBI, J. Development of a flexible, fold-on PRETIER, R. P. Report on progress in achieving droft of a major fraction of sonic flexinto electrical power by electro /EPD/ processes PRIEDEL, R. A. Hass spectrometric analysis of precoal gasification [PB-240835/9]	Olume 1: General 07 p0163 H75-27970 erator 05 p0009 A75-10579 al report: 08 p0206 H75-30948 rocesses and its 07 p0109 A75-29474 at solar array 06 p0053 A75-24252 irect conversion ow kinetic power offluid dynamic 05 p0009 A75-10576
results and discussion [PB-240220/4] FRANKLIM, B. The Harwell thermo-mechanical gene FRANZEM, D. National Bureau of Standards annual Fiscal year 1974 [COB-75-10465/3] FREBHAN, T. L. A method of simulation of solar prapplication PREMY, J. Development of a flexible, fold-one prefixed and properties of a major fraction of sonic fleinto electrical power by electronetrical gasification [PB-240835/9] PRIEDLANDER, G. D.	Olume 1: General 07 p0163 H75-27970 Brator 05 p0009 A75-10579 al report: 08 p0206 H75-30948 rocesses and its 07 p0109 A75-29474 at solar array 06 p0053 A75-24252 irect conversion by kinetic power offluid dynamic 05 p0009 A75-10576 oduct water from
results and discussion [PB-240220/4] FRANKLIB, B. The Harwell thermo-mechanical gene FRANZEN, D. National Bureau of Standards annua Fiscal year 1974 [COM-75-10465/3] FREEMAN, T. L. A method of simulation of solar prapplication PREBI, J. Development of a flexible, fold-on PRETIER, R. P. Report on progress in achieving droft of a major fraction of sonic flexinto electrical power by electro /EPD/ processes PRIEDEL, R. A. Hass spectrometric analysis of precoal gasification [PB-240835/9]	Olume 1: General 07 p0163 H75-27970 erator 05 p0009 A75-10579 al report: 08 p0206 H75-30948 rocesses and its 07 p0109 A75-29474 at solar array 06 p0053 A75-24252 irect conversion ow kinetic power offluid dynamic 05 p0009 A75-10576 oduct water from 07 p0158 H75-27120
results and discussion [PB-240220/4] FRANKLIB, B. The Harwell thermo-mechanical gene FRANZEN, D. National Bureau of Standards annua Fiscal year 1974 [COM-75-1045/3] FREEMAN, T. L. A method of simulation of solar prapplication PREMY, J. Development of a flexible, fold-on FRETTER, R. P. Report on progress in achieving do of a major fraction of sonic flexinto electrical power by electro /EFD/ processes PRIEDEL, R. A. Hass spectrometric analysis of practical general processes PRIEDEL, B. A. Hass spectrometric analysis of practical general general processes PRIEDLANDER, G. D. Energy's hazy future	Olume 1: General 07 p0163 H75-27970 Brator 05 p0009 A75-10579 al report: 08 p0206 H75-30948 rocesses and its 07 p0109 A75-29474 at solar array 06 p0053 A75-24252 irect conversion by kinetic power offluid dynamic 05 p0009 A75-10576 oduct water from
results and discussion [PB-240220/4] FRANKLIN, B. The Harwell thermo-mechanical gene FRANZEN, D. National Bureau of Standards annual Fiscal year 1974 [COB-75-10465/3] FREEMAN, T. L. A method of simulation of solar prapplication PREMY, J. Development of a flexible, fold-one PRETTER, B. P. Report on progress in achieving disoff a major fraction of sonic fleinto electrical power by electron / EFD/ processes PRIEDEL, B. A. Hass spectrometric analysis of precoal gasification [PB-240835/9] PRIEDLANDER, G. D. Energy's hazy future PRIEDMAN, I.	Olume 1: General O7 p0163 H75-27970 Prator O5 p0009 A75-10579 al report: O8 p0206 H75-30948 Processes and its O7 p0109 A75-29474 Processes and its O7 p0109 A75-29474 Processes and its O7 p0109 A75-29474 OF p0053 A75-24252 Processes and its O7 p0109 A75-10576 Oduct water from O7 p0158 H75-27120 O7 p0110 A75-31195
results and discussion [PB-240220/4] FRANKLIB, B. The Harwell thermo-mechanical gene FRANZEN, D. National Bureau of Standards annua Fiscal year 1974 [COM-75-1045/3] FREEMAN, T. L. A method of simulation of solar prapplication PREMY, J. Development of a flexible, fold-on FRETTER, R. P. Report on progress in achieving do of a major fraction of sonic flexinto electrical power by electro /EFD/ processes PRIEDEL, R. A. Hass spectrometric analysis of practical general processes PRIEDEL, B. A. Hass spectrometric analysis of practical general general processes PRIEDLANDER, G. D. Energy's hazy future	Olume 1: General O7 p0163 H75-27970 Prator O5 p0009 A75-10579 al report: O8 p0206 H75-30948 Processes and its O7 p0109 A75-29474 Processes and its O7 p0109 A75-29474 Processes and its O7 p0109 A75-29474 OF p0053 A75-24252 Processes and its O7 p0109 A75-10576 Oduct water from O7 p0158 H75-27120 O7 p0110 A75-31195
results and discussion [PB-240220/4] FRANKLE, B. The Harwell thermo-mechanical gene FRANZEN, D. National Bureau of Standards annual Fiscal year 1974 [COM-75-10465/3] FREBHAN, T. L. A method of simulation of solar properties of a publication PREMY, J. Development of a flexible, fold-one PRETTER, E. P. Report on progress in achieving description of sonic flexible of a major fraction of sonic flexible processes PRIEDEL, R. A. Hass spectrometric analysis of processes PRIEDEL, R. A. Energy's hazy future PRIEDBABBER, G. D. Energy's hazy future PRIEDBABBER, I. Helium survey, a possible technique geothermal reservoirs	Olume 1: General O7 p0163 H75-27970 Prator O5 p0009 A75-10579 al report: O8 p0206 H75-30948 Processes and its O7 p0109 A75-29474 Processes and its O7 p0109 A75-29474 Processes and its O7 p0109 A75-29474 OF p0053 A75-24252 Processes and its O7 p0109 A75-10576 Oduct water from O7 p0158 H75-27120 O7 p0110 A75-31195
results and discussion [PB-240220/4] FRANKLE, B. The Harwell thermo-mechanical gene FRANZEN, D. National Bureau of Standards annual Fiscal year 1974 [COM-75-10465/3] FREBHAN, T. L. A method of simulation of solar properties of a publication PREMY, J. Development of a flexible, fold-one PRETTER, E. P. Report on progress in achieving description of sonic flexible of a major fraction of sonic flexible processes PRIEDEL, R. A. Hass spectrometric analysis of processes PRIEDEL, R. A. Energy's hazy future PRIEDBABBER, G. D. Energy's hazy future PRIEDBABBER, I. Helium survey, a possible technique geothermal reservoirs	Olume 1: General 07 p0163 H75-27970 Brator 05 p0009 A75-10579 al report: 08 p0206 H75-30948 rocesses and its 07 p0109 A75-29474 at solar array 06 p0053 A75-24252 irect conversion ow kinetic power offluid dynamic 05 p0009 A75-10576 oduct water from 07 p0158 H75-27120 07 p0110 A75-31195 me for locating
results and discussion [PB-240220/4] FRANKLIM, E. The Harwell thermo-mechanical gene FRANZEM, D. National Bureau of Standards annua Fiscal year 1974 [COB-75-10465/3] FREEHAM, T. L. A method of simulation of solar praphication PREBI, J. Development of a flexible, fold-on FRETTER, E. F. Report on progress in achieving dof a major fraction of sonic fleinto electrical power by electro /EFD/ processes FRIEDEL, R. A. Hass spectrometric analysis of proceal gasification [PB-240835/9] FRIEDLANDER, G. D. Energy's hazy future FRIEDHAM, I. Helium survey, a possible technique geothermal reservoirs FRISBIE, W. P. Technology assessment of portable	Olume 1: General 07 p0163 H75-27970 Brator 05 p0009 A75-10579 al report: 08 p0206 H75-30948 rocesses and its 07 p0109 A75-29474 at solar array 06 p0053 A75-24252 irect conversion ow kinetic power offluid dynamic 05 p0009 A75-10576 oduct water from 07 p0158 H75-27120 07 p0110 A75-31195 we for locating 07 p0118 A75-35438 energy RDT and P
results and discussion [PB-240220/4] FRANKLIN, B. The Harwell thermo-mechanical gene FRANKLIN, D. National Bureau of Standards annual Piscal year 1974 [COM-75-10465/3] FREEMAN, T. L. A method of simulation of solar properties of a purplication PREMY, J. Development of a flexible, fold-one of a major fraction of sonic flexible of a major fraction of sonic flexible of a major fraction of sonic flexible processes PRIEDEL, R. A. Hass spectrometric analysis of processes PRIEDLANDER, G. D. Energy's hazy future PRIEDMAN, I. Helium survey, a possible technique geothermal reservoirs PRIEBLE, W. P. Technology assessment of portable [MASA-CR-137655]	Olume 1: General 07 p0163 H75-27970 erator 05 p0009 A75-10579 al report: 08 p0206 H75-30948 rocesses and its 07 p0109 A75-29474 at solar array 06 p0053 A75-24252 irect conversion ow kinetic power offluid dynamic 05 p0009 A75-10576 oduct water from 07 p0158 H75-27120 07 p0110 A75-31195 me for locating 07 p0118 A75-35438
results and discussion [PB-240220/4] FRANKLE, B. The Harwell thermo-mechanical gene FRANZEN, D. National Bureau of Standards annua Fiscal year 1974 [COM-75-10465/3] FREEMAN, T. L. A method of simulation of solar properties of the second of solar properties. PREMI, J. Development of a flexible, fold-one PRETIER, R. F. Report on progress in achieving do of a major fraction of sonic flexinto electrical power by electrometrical power by electrometrical power by electrometric analysis of processes PRIEDEL, R. A. Hass spectrometric analysis of processes PRIEDLANDER, G. D. Energy's hazy future PRIEDHAN, I. Helium survey, a possible technique geothermal reservoirs PRISBIE, W. P. Technology assessment of portable [NASA-CR-137655] PRULLAUL, S.	Olume 1: General 07 p0163 H75-27970 erator 05 p0009 A75-10579 al report: 08 p0206 H75-30948 rocesses and its 07 p0109 A75-29474 at solar array 06 p0053 A75-24252 irect conversion ow kinetic power offluid dynamic 05 p0009 A75-10576 oduct water from 07 p0158 H75-27120 07 p0110 A75-31195 me for locating 07 p0118 A75-35438 energy RDT and p 07 p0160 H75-27565
results and discussion [PB-240220/4] FRANKLI, E. The Harwell thermo-mechanical gene FRANZEN, D. National Bureau of Standards annual Fiscal year 1974 [COB-75-10465/3] FREHEM, T. L. A method of simulation of solar properties of a mapplication PREHY, J. Development of a flexible, fold-one FRETTER, E. F. Report on progress in achieving designed of a major fraction of sonic fleinto electrical power by electronic description of sonic fleinto electrical power by electronic processes FRIEDEL, R. A. Hass spectrometric analysis of processes FRIEDLANDER, G. D. Energy's hazy future PRIEDLANDER, G. D. Energy's hazy future PRIEDLANDER, F. Technology assessment of portable [NASA-CR-137655] PRULLANI, S. Problems in electric power product	Olume 1: General 07 p0163 H75-27970 erator 05 p0009 A75-10579 al report: 08 p0206 H75-30948 rocesses and its 07 p0109 A75-29474 at solar array 06 p0053 A75-24252 irect conversion ow kinetic power offluid dynamic 05 p0009 A75-10576 oduct water from 07 p0158 H75-27120 07 p0110 A75-31195 me for locating 07 p0118 A75-35438 energy RDT and P 07 p0160 H75-27565 tion
results and discussion [PB-240220/4] FRANKLE, B. The Harwell thermo-mechanical gene FRANKLE, D. National Bureau of Standards annual Fiscal year 1974 [COM-75-10465/3] FREBHAN, T. L. A method of simulation of solar properties of a purplication PREMY, J. Development of a flexible, fold-one prestree, E. P. Report on progress in achieving desired of a major fraction of sonic flexible of a major fraction of sonic flexible processes PRIEDEL, R. A. Hass spectrometric analysis of processes PRIEDLANDER, G. D. Energy's hazy future PRIEDMAN, I. Helium survey, a possible technique geothermal reservoirs PRIESBIE, W. P. Technology assessment of portable [MASA-CR-137655] PRULLANI, S. Problems in electric power product [ISS-T-73/16]	Olume 1: General 07 p0163 H75-27970 erator 05 p0009 A75-10579 al report: 08 p0206 H75-30948 rocesses and its 07 p0109 A75-29474 at solar array 06 p0053 A75-24252 irect conversion ow kinetic power offluid dynamic 05 p0009 A75-10576 oduct water from 07 p0158 H75-27120 07 p0110 A75-31195 me for locating 07 p0118 A75-35438 energy RDT and p 07 p0160 H75-27565
results and discussion [PB-240220/4] FRANKLIM, B. The Harwell thermo-mechanical gene FRANKLIM, D. National Bureau of Standards annual Fiscal year 1974 [COM-75-10465/3] FREEMAN, T. L. A method of simulation of solar properties of a polication FRENI, J. Development of a flexible, fold-one FRETIER, R. F. Report on progress in achieving dof a major fraction of sonic flexinto electrical power by electronic field into electrical power by electronic field in the electrical power by electronic field	Olume 1: General O7 p0163 H75-27970 Brator O5 p0009 A75-10579 Al report: O8 p0206 H75-30948 rocesses and its O7 p0109 A75-29474 Alt solar array O6 p0053 A75-24252 irect conversion ow kinetic power offluid dynamic O5 p0009 A75-10576 aduct water from O7 p0158 H75-27120 O7 p0110 A75-31195 me for locating O7 p0118 A75-35438 energy RDT and P O7 p0160 H75-27565 tion O7 p0128 H75-21793
results and discussion [PB-240220/4] FRANKLIM, B. The Harwell thermo-mechanical gene FRANKLEM, D. National Bureau of Standards annual Fiscal year 1974 [COB-75-10465/3] FREHEMA, T. L. A method of simulation of solar properties of a mapplication PREHE, J. Development of a flexible, fold-one FRETTER, R. F. Report on progress in achieving designation of sonic flexible of a major fraction of sonic flexible processes FRIEDEL, R. A. Hass spectrometric analysis of processes FRIEDEL, R. A. Hass spectrometric analysis of processes FRIEDEL, B. A. Energy's hazy future PRIEDHAM, I. Helium survey, a possible technique geothermal reservoirs FRISBIE, W. P. Technology assessment of portable [MASA-CR-137655] FRULLAMI, S. Problems in electric power product [ISS-T-73/16] TU, Y. C. Conversion of cellulosic wastes to	Olume 1: General O7 p0163 H75-27970 Brator O5 p0009 A75-10579 al report: O8 p0206 H75-30948 rocesses and its O7 p0109 A75-29474 at solar array O6 p0053 A75-24252 irect conversion ow kinetic power offluid dynamic O5 p0009 A75-10576 oduct water from O7 p0158 H75-27120 O7 p0110 A75-31195 me for locating O7 p0118 A75-35438 energy RDT and P O7 p0160 H75-27565 tion O7 p0128 H75-21793 D oil
results and discussion [PB-240220/4] FRANKLIM, B. The Harwell thermo-mechanical gene FRANKLIM, D. National Bureau of Standards annual Fiscal year 1974 [COM-75-10465/3] FREEMAN, T. L. A method of simulation of solar properties of a polication FRENI, J. Development of a flexible, fold-one FRETIER, R. F. Report on progress in achieving dof a major fraction of sonic flexinto electrical power by electronic field into electrical power by electronic field in the electrical power by electronic field	Olume 1: General O7 p0163 H75-27970 Brator O5 p0009 A75-10579 Al report: O8 p0206 H75-30948 rocesses and its O7 p0109 A75-29474 Alt solar array O6 p0053 A75-24252 irect conversion ow kinetic power offluid dynamic O5 p0009 A75-10576 aduct water from O7 p0158 H75-27120 O7 p0110 A75-31195 me for locating O7 p0118 A75-35438 energy RDT and P O7 p0160 H75-27565 tion O7 p0128 H75-21793

06 p0061 A75-27967

FUKUDA, M. The practical lithium/poly-carbonmonofluoride battery system 08 p0188 A75-45964 FULCHER, H. K.
Overview of Reclamation's geothermal program in Imperial Valley, California 06 p0098 N75-20835 FULLAM, H. T.
Strontium fluoride research in heat source and compatibility tests [BNWL-1845-2] 07 p0152 N75-25695 [BNHL-1845-2]
Strontium heat source development programs
(00001-1005-0)
07 p0152 975-25696 PULLMAN, R. I. Energy storage by flywheels 08 p0185 A75-45930 The generation of hydrogen by the thermal decomposition of water 05 p0005 A75-10532 Evaluation of multi-step thermochemical processes for the production of hydrogen from water 08 p0177 A75-44778 FURLONG, D. A. Use of low grade solid fuels in gas turbines
[ASME PAPER 74-WA/EMER-5] OS p0016 A75-16837
FURNAM, B. R. MAN, E. H.
Liquid-metal binary cycles for stationary power
[NASA-TN-D-7955] 08 p0205 N75-30649 PUSCHILLO, N. Semi-transparent solar collector window systems
08 p0167 A75-39405 G GAALEHA, S.

Novel materials for power systems. Part 3:
Selective emitters for energy conversion
05 no026 05 p0026 #75-10608 [AD-784449] GABLE, R. D. Space power application of the all purpose mini-Brayton rotating unit /mini-BRU/ 08 p0193 A75-46019 Determination of the surface shapes of film-type solar energy concentrators with seams
07 p0119 A75-36017 Pull-scale tests of 'photovolt' high-voltage photocells at high light flux levels 07 p0122 A75-37162 Full-scale testing of high-voltage photocells of fotovolt type at elevated light flux levels 08 p0210 N75-32590 GALDI, T. Energy policy and resource management
[GPO-33-634] 07 p0149 M75-25300 GALES, C.
Production of hydrogen by the electrolysis of water
06 p0046 A75-22044 GALIMOV, B. M. Carbon isotopes in oil-gas geology
[NASA-TT-F-682] 07 p0160 N75-27563 GALLAGHER, J. H.

Path to self-sufficiency directions and constraints
[PB-239099] 07 p0142 B75-2412 07 p0142 B75-24128 GALVAS, H. R. A compressor designed for the energy research and development agency automotive gas turbine program [HASA-TM-X-71719] 07 p0141 H75-24116 GAMALII, R. G. Laser thermonuclear fusion 07 p0112 A75-32617 GAMBFELD, B. V. Fluctuations of electric power in BHD channels 07 p0110 175-30949 On the application of hydrogen as a fuel for automotive vehicles

07 p0135 m 07 p0135 N75-22910 GANNON, B. B. Progress in development of auxiliary BHD power plant components at Avco Everett Research Laboratory, Inc
[ASHE PAPER 74-WA/RHER-6] 05 p0016 A
Corrosion studies of materials for auxiliary 05 p0016 A75-16838

equipment in MHD power plants

06 p0055 A75-24384

High temperature air preheaters f	or open cycle MHD	GIABHIHI, P.	•
energy conversion systems [AICHE PAPER 16]	08 p0196 A75-47512	Power generation and efficiency i traveling-wave amplifiers	
GARDHER, G. C. Storing electrical energy on a la		GIBBS, E.	07 p0110 A75-30750
GARDER, J. A. Power processor design considerat	08 p0165 A75-38864	Proceedings of the Workshop on Bi [PB-236142/6] GIBSON, C. J.	06 p0069 #75-16096
electric propulsion spacecraft [NASA-CR-140842]		Some LNG vehicle developments	06 p0048 A75-23236
GARDNER, J. L. Environmental regulations and ene	-	GIBSON, B. K. An evaluation of discarded tires	-
heating [PB-240699/9]	08 p0203 N75-29587	source of fuel	05 p0012 A75-12416
GARG, H. P. Year round performance studies on		An evaluation: The potential of as a source of fuel	
storage type solar water heater	at Jodhpur, India 08 p0167 A75-39406	[HASA-TH-X-58143] GILG, J. P.	05 p0038 875-15153
GARLOW, R. J.		An interdisciplinary engineering	approach to a
An interdisciplinary engineering		facility design study with emph	asis on energy
facility design study with emph		conservation. Volume 2: Main	
conservation. Volume 2: Main		[AD-A006804]	07 p0142 N75-24129
[AD-A006804]	07 p0 142 N75-24 129	An interdisciplinary engineering	
An interdisciplinary engineering		facility design study with emph	
facility design study with emph	data on energy	conservation. Volume 1: Execu	
conservation. Volume 1: Execu	CTAG SCREGITA	[AD-A006803]	07 p0149 N75-25304
[AD-A006803]	07 p0149 N75-25304	An interdisciplinary engineering	
An interdisciplinary engineering		facility design study with emph	asis on energy
facility design study with emph		conservation. Volume 3: Appen	07 p0149 N75-25305
conservation. Volume 3: Appen		[AD-A006805]	07 po 149 875-25305
[AD-A006805]	07 p0149 N75-25305	GILL, W. L.	over denoration '
GATES, G. L. Solvent stimulation tests in two	California	Technology survey of electrical p and distribution for MIUS appli	
oilfields	Callioinia		08 p0207 N75-31573
[PB-237849/5]	06 p0090 N75-18761	GILLATT, W. B.	00 post. 2.5 51575
GAUTHIER, A.		Fuel use in the US electrical uti	lity industry.
Cds-Cu2s cells - An outlook for t	errestrial	1971 - 1990	07 p0154 N75-26493
applications	06 p0052 A75-24223	GILLESPIE, A. R. The detection of geothermal areas	•
Development of high specific ener	gy batteries for	thermal data	07 p0158 B75-27540
electric vehicles [ANL-8058]	06 p0076 N75-16990	[MASA-CR-143133] GILLETTE, R. B. Glass solar heat collector develo	-
pevelopment of lithium/sulfur cel application to electric automob	iles	[AIAA PAPER 75-740]	07 p0115 &75-33758
[COMP-740805-7]	06 p0094 N75-19829	GILLRY, J. R.	07 po 113 E73 33730
GAY, W. P.	00 p0034 m.5 13023	Use of thermally enriched water f	or growing field
Energy statistics. A supplement	to the summary of	crops in Minnesota	. ,
National Transportation statist	ics	[PB-240112]	07 p0159 N75-27549
[PB-236767/8]	07 p0130 N75-21817	GILSINN, J. P.	
GAZAKOV, O.		The NBS computerized carpool matc	hing system:
GaP p-n junctions and possibiliti		User's guide	
application in the conversion of	f solar energy		08 p0214 #75-33749
into electric		GINZBURG, A.	
GRISOW, J.	05 p0011 A75-12198	The hot deeps of the Red Sea as a source for thermoelectric power	
The Harwell thermo-mechanical gen	05 p0009 A75-10579	GISTAU, G.	03 p0004 Z73-10316
GRECO, J. H.	05 p0009 g/5 105/9	Liquid hydrogen	
Characterization of sulfur recover	rv from refinerv	nidara niatolen	06 p0046 A75-22043
fuel qas	-,	GITOMER, S. J.	or posite and allow
	07 p0151 #75-25326	Numerical simulation of direct en	
GEORGE, J. H. B.			06 p0045 A75-19660
Batteries and fuel cells in the e	lectrical	GIVEN, P. H.	
generating industry		The relation of coal characteristi	cs to coal .
	08 p0166 &75-39198	liquefaction behavior	07 p0151 H75-25327
GERBER, B.	754 France	[PB-239261/1]	0/ poist #/5-2532/
proceedings of 5th annual symposis	um: wwerdy	GLAWVILLE, R. The potential of natural energy so	NTCAC
Research and Development	07 p0144 #75-24142	The potential of natural energy se	08 p0165 A75-38865
[AD-A007799]	07 po 144 B75-24 142	GLASER, P. B.	00 P0103 E73-38003
GERRAN, V. O. Concerning the use of a nitrogen- mixture for protection of MHD-ge	potassium gaseous	The satellite solar power station energy production on earth	- An option for
electrodes by suction		[AIAA PAPER 75-637]	06 p0063 A75-28600
GERTLER, H.	07 p0112 a75-31569	The satellite solar power station	07 p0118 A75-35465
The effect of recent energy price field crop production costs		An overview of solar energy applic	08 p0166 A75-39196
[PB-238659/7]	06 p0107 N75-21155	Solar climate control - Evaluating	the commercial
GERVAIS, R. L.		possibilities	
gwaluation of central solar tower	power plant		08 p0 168 A75-40297
	05 p0003 A75-10515	The satellite solar power station	- A step toward
material considerations involved	in solar energy	the industrial use of space	00 -0403 155 5555
conversion	06 -0007 175 00500	[IAP PAPER 75-003]	08 p0183 A75-45903
galam Alamani alaganda samas	06 p0047 A75-22522	Peasibility study of a satellite s	
Solar-thermal electric power	07 p0111 A75-31270	[NASA-CR-2357] Space satellite power system	07 p0138 175-23683
Evaluation of central solar tower		[HASA-CR-142799]	07 p0139 B75-24099

GLASSHAD, A. J.	GONCHARBNKO, V. P.
Turbine design and application, volume 3	Energy characteristics of coarial plasma source
[NASA-SP-290-VOL-3] 07 p0147 H75-247	
CLASSHAW, I. Summary report of workshop on Energy Related Basic	GOODELLE, G. S. Performance of advanced silicon solar cells in a
Combustion Research	space environment
[PB-236714/2] 06 p0079 H75-174	
CLENDERWING, I.	GOODEWOOGH, J. B.
Characteristics of a rocking wave power device 06 p0062 A75-284	Heat mirrors for solar-energy collection and radiation insulation
GLEBIA, B.	05 p0004 A75-10525
Solar energy conversion by water photodissociation	High-efficiency electrochemical plant
08 p0173 A75-435	
GLIBERNAE, A. IA.	GOODGER, E. H.
Temperature dependence of the spectral Characteristics of quick-response silicon	Alternative fuels for aviation 07 p0121 A75-36719
photocells	GORADIA, C.
07 p0119 A75-360	
CLIDDON, B. J. The potential of natural energy sources	photovoltaic power 07 p0123 A75-37400
08 p0165 A75-388	
GLOBB, S.	photovoltaic power
A review of the Project Independence report	[NASA-TH-X-71718] 07 p0,140 H75-24108
submitted to Office of Energy Research and Development, Hational Science Foundation, 10	GORDON, J. Bio-conversion of water hyacinths into methane
January 1975	gas, part 1
[PB-238791/8] 07 p0131 H75-218	23 [NASA-TM-X-72725] 07 p0160 N75-27564
GODLEWSKI, H. P.	GORDON, T. J.
Effects of high doring levels on silicon solar cell performance	Geothermal energy as a resource in a hydrogen energy economy
07 p0123 A75-374	
GORTE, A. F. H.	Institutional and environmental problems in
The detection of geothermal areas from Skylab	geothermal resource development 06 p0100 H75-20843
thermal data [NASA-CR-143133] 07 p0158 N75-275	
GORTZINGER, J. W.	Devices based on thermoelectrical phenomena
Waste lubricating oil research. A comparison of	[AD-783821] 05 p0026 N75-10836
bench-test properties of re-refined and wirgin lubricating oils	GOSCH. W. D. A USAP energy projection model
[PB-238124/2] 06 p0097 H75-207	
GOFORTH, T. T.	GOSHDEHANOV, M.
A brief description of geological and geophysical	Statistical relation between heat transfer from a
exploration of the Marysville geothermal area 06 p0099 N75-208	closed area and meteorological parameters during the use of a solar refrigerating plant
GOGUEL, J.	08 p0169 A75-41072
Geothermal energy	GRACHEVA, H. H.
GOLARY, H. 06 p0060 A75-278	26 Temperature dependence of the spectral characteristics of quick-response silicon
Statistical relation between heat transfer from a	photocells
closed area and meteorological parameters during	
the use of a sclar refrigerating plant	GRASSO, A. P.
08 p0169 A75-410	72 Study of fuel cell powerplant with heat recovery
08 p0169 A75-410 GOLASINSKI, J. A. Vulnerability of natural gas systems [AD-A007583] 07 p0144 B75-241	72 Study of fuel cell powerplant with heat recovery [NASA-CR-141854]: 07 p0148 N75-25296 GRAUBARD, H. H. Blectricity conservation measures in the
GOLASINSKI, J. A. Wulnerability of natural gas systems [AD-A007583] GOLDBACH, W. B.	72 Study of fuel cell powerplant with heat recovery [NASA-CR-141854] 07 p0148 N75-25296 GRAUBARD, H. H. Blectricity conservation measures in the commercial sector: The Los Angeles experience
O8 p0169 A75-410 GOLASINSKI, J. A. Vulnerability of natural gas systems [AD-A007583] GOLDBACH, W. B. New dimensions in water heating in the Northwest	72 Study of fuel cell powerplant with heat recovery [MASA-CR-141854] 07 p0148 M75-25296 GRAUBARD, M. H. Blectricity conservation measures in the commercial sector: The Los Angeles experience [R-1592-FBA] 05 p0034 M75-13388
GOLASINSKI, J. A. Wulnerability of natural gas systems [AD-A007583] GOLDBACH, W. B.	72 Study of fuel cell powerplant with heat recovery [NASA-CR-141854] 07 p0148 N75-25296 GRAUBARD, H. H. Blectricity conservation measures in the commercial sector: The Los Angeles experience [R-1592-PEA] 05 p0034 N75-13388 GRAVEE, R. H. Comparison of computer programs used for modeling
GOLASIESKI, J. A. Vulnerability of natural gas systems [AD-A007583] GOLDBACH, W. B. Bew dimensions in water heating in the Northwest - A study of solar energy utilization OR p0191 A75-459 GOLDBROGER, W. H.	72 Study of fuel cell powerplant with heat recovery [NASA-CR-141854]
GOLASINSKI, J. A. Vulnerability of natural gas systems [AD-A007583] GOLDBACH, W. R. Hew dimensions in water heating in the Northwest - A study of solar energy utilization 08 p0191 A75-459 GOLDBRGER, W. E. Design installation and operation of a 25	72 Study of fuel cell powerplant with heat recovery [NASA-CR-141854] 07 p0148 N75-25296 GRAUBARD, N. H. 43 Electricity conservation measures in the commercial sector: The Los Angeles experience [R-1592-FPA] 05 p0034 N75-13388 GRAVEN, R. H. 95 Comparison of computer programs used for modeling solar heating and air conditioning systems for buildings
GOLASIESKI, J. A. Vulnerability of natural gas systems [AD-A007583] GOLDBACH, W. R. New dimensions in water heating in the Northwest - A study of solar energy utilization OR p0191 A75-459 GOLDBERGER, W. H. Design installation and operation of a 25 ton-a-day coal gasification process development	72 Study of fuel cell powerplant with heat recovery [NASA-CR-141854]
GOLASINSKI, J. A. Vulnerability of natural gas systems [AD-A007583] GOLDBACH, W. B. New dimensions in water heating in the Northwest - A study of solar energy utilization 08 p0191 A75-459 GOLDBRGER, W. H. Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] 06 p0087 H75-187	72 Study of fuel cell powerplant with heat recovery [NASA-CR-141854] 07 p0148 N75-25296 GRAUBARD, N. H. 43 Electricity conservation measures in the commercial sector: The Los Angeles experience [R-1592-FEA] 05 p0034 N75-13388 GRAVEN, R. H. 55 Comparison of computer programs used for modeling solar heating and air conditioning systems for buildings [LBL-3066] 06 p0079 N75-17279 GRAY, H. R. Potential structural material problems in a
GOLASINSKI, J. A. Vulnerability of natural gas systems [AD-A007583] GOLDBACH, W. R. Hew dimensions in water heating in the Northwest - A study of solar energy utilization OR p0191 A75-459 GOLDBERGER, W. M. Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] GOLDBERGER, W.	72 Study of fuel cell powerplant with heat recovery [NASA-CR-141854]
GOLASIESKI, J. A. Vulnerability of natural gas systems [AD-A007583] GOLDBACH, W. B. Bew dimensions in water heating in the Northwest - A study of solar energy utilization 08 p0191 A75-459 GOLDBERGER, W. H. Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] GOLDEBBERG, M. ETG technology development - Where we are/where we	Study of fuel cell powerplant with heat recovery [NASA-CR-141854]
GOLASINSKI, J. A. Vulnerability of natural gas systems [AD-A007583] GOLDBACH, W. R. Hew dimensions in water heating in the Northwest - A study of solar energy utilization OR p0191 A75-459 GOLDBERGER, W. M. Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] GOLDBERGER, W.	72 Study of fuel cell powerplant with heat recovery [NASA-CR-141854]
GOLASIESKI, J. A. Vulnerability of natural gas systems [AD-A007583] GOLDBACH, W. B. Hew dimensions in water heating in the Northwest - A study of solar energy utilization 08 p0191 A75-459 GOLDBERGER, W. H. Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] GOLDEMBERG M. RTG technology development - Where we are/where we are going 05 p0002 A75-104 GOLDBARHEER, L. J.	72 Study of fuel cell powerplant with heat recovery [NASA-CR-141854] 07 p0148 N75-25296 GRAUBARD, N. H. Blectricity conservation measures in the commercial sector: The Los Angeles experience [R-1592-FEA] 05 p0034 N75-13388 GRAVER, R. H. Comparison of computer programs used for modeling solar heating and air conditioning systems for buildings [LBL-3066] 06 p0079 N75-17279 GRAY, H. R. Potential structural material problems in a hydrogen energy system [NASA-TH-X-71752] 07 p0154 N75-26500 GRAY, S. L. Primary data on economic activity and water use in prototype oil shale development areas of
GOLASIESKI, J. A. Vulnerability of natural gas systems [AD-A007583] GOLDBACH, W. B. New dimensions in water heating in the Northwest - A study of solar energy utilization 08 p0191 A75-459 GOLDBRGER, W. H. Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] GOLDBRBERG, N. RTG technology development - Where we are/where we are going 05 p0002 A75-104 GOLDHAMHER, L. J. Performance of advanced silicon solar cells in a	72 Study of fuel cell powerplant with heat recovery [NASA-CR-141854]
GOLASINSKI, J. A. Vulnerability of natural gas systems [AD-A007583] GOLDBACH, W. B. We dimensions in water heating in the Northwest - A study of solar energy utilization 08 p0191 A75-459 GOLDBREGER, W. M. Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] GOLDBBEEG, M. RTG technology development - Where we are/where we are going 05 p0002 A75-104 GOLDBAHHER, L. J. Performance of advanced silicon solar cells in a space environment	72 Study of fuel cell powerplant with heat recovery [NASA-CR-141854]
GOLASIESKI, J. A. Vulnerability of natural gas systems [AD-A007583] GOLDBACH, W. B. New dimensions in water heating in the Northwest - A study of solar energy utilization 08 p0191 A75-459 GOLDBRGEE, W. H. Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] GOLDBRBEEG, W. RTG technology development - Where we are/where we are going 05 p0002 A75-104 GOLDBAMBEE, L. J. Performance of advanced silicon solar cells in a space environment 06 p0052 A75-242 GOLDBER, R. B.	72 Study of fuel cell powerplant with heat recovery [NASA-CR-141854]
GOLASIESKI, J. A. Vulnerability of natural gas systems [AD-A007583] GOLDBACH, W. B. Hew dimensions in water heating in the Northwest - A study of solar energy utilization 08 p0191 A75-459 GOLDBRGER, W. H. Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] GOLDBRERG, H. RTG technology development - Where we are/where we are going 05 p0002 A75-104 GOLDBRHER, L. J. Performance of advanced silicon solar cells in a space environment 06 p0052 A75-242 GOLDBRE, R. B. Indium tin oxide-coated silicon as a selective	72 Study of fuel cell powerplant with heat recovery [NASA-CR-141854]
GOLASIESKI, J. A. Vulnerability of natural gas systems [AD-A007583] GOLDBACH, W. B. Hew dimensions in water heating in the Northwest - A study of solar energy utilization 08 p0191 A75-459 GOLDBREGER, W. H. Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] GOLDBMBERG, M. ETG technology development - Where we are/where we are going 05 p0002 A75-104 GOLDBAHHER, L. J. Performance of advanced silicon solar cells in a space environment 06 p0052 A75-242 GOLDBER, R. B. Indium tin oxide-coated silicon as a selective absorber	Study of fuel cell powerplant with heat recovery [NASA-CR-141854]
GOLASIESKI, J. A. Vulnerability of natural gas systems [AD-A007583] GOLDBACH, W. B. Hew dimensions in water heating in the Northwest - A study of solar energy utilization 08 p0191 A75-459 GOLDBRGER, W. H. Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] GOLDBRERG, H. RTG technology development - Where we are/where we are going 05 p0002 A75-104 GOLDBRHER, L. J. Performance of advanced silicon solar cells in a space environment 06 p0052 A75-242 GOLDBRE, R. B. Indium tin oxide-coated silicon as a selective	Study of fuel cell powerplant with heat recovery [NASA-CR-141854]
GOLASIESKI, J. A. Vulnerability of natural gas systems [AD-A007583] GOLDBACH, W. B. Hew dimensions in water heating in the Northwest - A study of solar energy utilization 08 p0191 A75-459 GOLDBREGER, W. H. Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] GOLDEMBERG, M. RTG technology development - Where we are/where we are going 05 p0002 A75-104 GOLDBAMHER, L. J. Performance of advanced silicon solar cells in a space environment 06 p0052 A75-242 GOLDERR, R. B. Indium tin oxide-coated silicon as a selective absorber 08 p0195 A75-469 GOLDSMITH, J. V. Status of JPL solar powered experiments for	Study of fuel cell powerplant with heat recovery [NASA-CR-141854]
GOLASIESKI, J. A. Vulnerability of natural gas systems [AD-A007583] GOLDBACH, W. B. New dimensions in water heating in the Northwest - A study of solar energy utilization 08 p0191 A75-459 GOLDBRGEE, W. H. Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] GOLDBRBEER, M. RTG technology development - Where we are/where we are going 05 p0002 A75-104 GOLDBAHBER, L. J. Performance of advanced silicon solar cells in a space environment 06 p0052 A75-242 GOLDBER, R. B. Indium tin oxide-coated silicon as a selective absorber 08 p0195 A75-469 GOLDSRITH, J. V. Status of JPL solar powered experiments for terrestrial applications	Study of fuel cell powerplant with heat recovery [NASA-CR-141854]
GOLASIESKI, J. A. Vulnerability of natural gas systems [AD-A007583] GOLDBACH, W. B. Hew dimensions in water heating in the Northwest - A study of solar energy utilization 08 p0191 A75-459 GOLDBREGER, W. H. Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] GOLDEMBERG, M. RTG technology development - Where we are/where we are going 05 p0002 A75-104 GOLDBAMHER, L. J. Performance of advanced silicon solar cells in a space environment 06 p0052 A75-242 GOLDERR, R. B. Indium tin oxide-coated silicon as a selective absorber 08 p0195 A75-469 GOLDSMITH, J. V. Status of JPL solar powered experiments for	Study of fuel cell powerplant with heat recovery [NASA-CR-141854]
GOLASIESKI, J. A. Vulnerability of natural gas systems [AD-A007583] GOLDBACH, W. B. New dimensions in water heating in the Northwest - A study of solar energy utilization OR p0191 A75-459 GOLDBRGER, W. H. Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] GOLDBBERG, W. RTG technology development - Where we are/where we are going O5 p0002 A75-104 GOLDBAHBER, L. J. Performance of advanced silicon solar cells in a space environment O6 p0052 A75-242 GOLDBER, R. B. Indium tin oxide-coated silicon as a selective absorber GOLDSRITH, J. V. Status of JPL solar powered experiments for terrestrial applications O5 p0005 A75-105 GOLOBB, D. Study on the effects of the energy crisis and 55	Study of fuel cell powerplant with heat recovery [NASA-CR-141854]
GOLASIESKI, J. A. Vulnerability of natural gas systems [AD-A007583] GOLDBACH, W. B. Hew dimensions in water heating in the Northwest - A study of solar energy utilization 08 p0191 A75-459 GOLDBRGER, W. H. Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] GOLDBREER, H. RTG technology development - Where we are/where we are going 05 p0002 A75-104 GOLDBAMBER, L. J. Performance of advanced silicon solar cells in a space environment 06 p0052 A75-242 GOLDBRER, R. B. Indium tin oxide-coated silicon as a selective absorber 08 p0195 A75-469 GOLDSNITH, J. V. Status of JPL solar powered experiments for terrestrial applications 05 p0005 A75-105 GOLOBB, D. Study on the effects of the energy crisis and 55 aph speed limit in Michigan	Study of fuel cell powerplant with heat recovery [NASA-CR-141854]
GOLASIESKI, J. A. Vulnerability of natural gas systems [AD-A007583] GOLDBACH, W. B. Hew dimensions in water heating in the Northwest - A study of solar energy utilization 08 p0191 A75-459 GOLDBREGER, W. H. Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] GOLDEMBERG, M. RTG technology development - Where we are/where we are going 05 p0002 A75-104 GOLDBAMHER, L. J. Performance of advanced silicon solar cells in a space environment 06 p0052 A75-242 GOLDERR, R. B. Indium tin oxide-coated silicon as a selective absorber 08 p0195 A75-469 GOLDSNITH, J. V. Status of JPL solar powered experiments for terrestrial applications GOLOBB, D. Study on the effects of the energy crisis and 55 mph speed limit in Michigan [PB-241843/2] 08 p0212 N75-334	Study of fuel cell powerplant with heat recovery [NASA-CR-141854]
GOLASIESKI, J. A. Vulnerability of natural gas systems [AD-A007583] GOLDBACH, W. B. Hew dimensions in water heating in the Northwest - A study of solar energy utilization 08 p0191 A75-459 GOLDBRGER, W. H. Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] GOLDBRBERG, H. RTG technology development - Where we are/where we are going 05 p0002 A75-104 GOLDBAMBER, L. J. Performance of advanced silicon solar cells in a space environment 06 p0052 A75-242 GOLDBRR, R. B. Indium tin oxide-coated silicon as a selective absorber 08 p0195 A75-469 GOLDSMITH, J. V. Status of JPL solar powered experiments for terrestrial applications 05 p0005 A75-105 GOLOBB, D. Study on the effects of the energy crisis and 55 mph speed limit in Michigan [PB-241843/2] GOLOVNER, T. H. Temperature dependence of the spectral	Study of fuel cell powerplant with heat recovery [NASA-CR-141854]
GOLASIESKI, J. A. Vulnerability of natural gas systems [AD-A007583] GOLDBACH, W. B. Hew dimensions in water heating in the Northwest - A study of solar energy utilization 08 p0191 A75-459 GOLDBREGER, W. H. Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] GOLDEMBERG, M. RTG technology development - Where we are/where we are going 05 p0002 A75-104 GOLDBAMBER, L. J. Performance of advanced silicon solar cells in a space environment 06 p0052 A75-242 GOLDERR, R. B. Indium tin oxide-coated silicon as a selective absorber 08 p0195 A75-469 GOLDSNITH, J. V. Status of JPL solar powered experiments for terrestrial applications GOLOBB, D. Study on the effects of the energy crisis and 55 mph speed limit in Michigan [PB-241843/2] GOLOVER, T. M. Temperature dependence of the spectral characteristics of quick-response silicon	Study of fuel cell powerplant with heat recovery [NASA-CR-141854]
GOLASIESKI, J. A. Vulnerability of natural gas systems [AD-A007583] GOLDBACH, W. B. Hew dimensions in water heating in the Northwest - A study of solar energy utilization 08 p0191 A75-459 GOLDBRGER, W. H. Design installation and operation of a 25 ton-a-day coal gasification process development unit for the agglomerating burner-gasification [PB-237625/9] GOLDBRBERG, H. RTG technology development - Where we are/where we are going 05 p0002 A75-104 GOLDBAMBER, L. J. Performance of advanced silicon solar cells in a space environment 06 p0052 A75-242 GOLDBRR, R. B. Indium tin oxide-coated silicon as a selective absorber 08 p0195 A75-469 GOLDSMITH, J. V. Status of JPL solar powered experiments for terrestrial applications 05 p0005 A75-105 GOLOBB, D. Study on the effects of the energy crisis and 55 mph speed limit in Michigan [PB-241843/2] GOLOVNER, T. H. Temperature dependence of the spectral	Study of fuel cell powerplant with heat recovery [NASA-CR-141854]

GREENBLAT, B. J.		GROSSMAN, G. R.	•
Economic analysis of space-based e		Investigation of current univers	
generation and transmission syst [IAP PAPER 75~006]	ems 08 p0183 A75-45829	concerning energy conversion a small single-family dwellings	
GREER, M. I.	oo persoo mee reces	[BASA-CR-143430]	08 p0207 #75-31570
Char oil energy development	05 -0000 MTE-45472	GUARROHI, G. B.	
GREGG, D. W.	05 p0040 #75-15173	Cylindrical erbium oxide radiate thermophotovoltaic generators	
Liquid plugging in in situ coal ga processes	sification	[AD-A001525] GUSOVSKII, V. L.	07 p0129 875-21806
	07 p0127 N75-21480	Utilizing fuel more efficiently	in reheating and
Economics analyses of solar energy		heat treatment furnaces [BLL-H-21957-(5828.4P)]	06 p0080 H75-17467
	05 p0004 A75-10520	GUTHRIB, H. P.	
Derivation of a total satellite en [AIAA PAPER 75-640]	ergy system 06 p0064 A75-29118	HSP-Bann energy abstracts: A mo journal of energy research	ntnly abstract
Ground based solar energy technolo		[ORNL-EIS-74-52-VOL-2-NO-1]	05 p0024 H75-10592
	08 p0190 A75-45984	MSP-RANN energy abstracts. A mo	
Orbital solar energy technology ad	vances 08 p0192 A75-46018	journal of energy research, wo [OBNL-BIS-74-52-VOL-2-4]	05 p0029 #75-11469
GREGORY, D. P. Nuclear energy requirements for hy	drogen	MSP-BANN energy abstracts [ORBL-BIS-74-52-VOL-2-5]	06 p0068 N75-16092
production from water	•	MSP-RANN energy abstracts. A mo	
Hydrogen - A carrier of energy	05 p0005 A75-10533	journal of energy research [ORNL-BIS-74-52-VOL-2-KO-6]	07 p0146 B75-24532
Technical problems facing the hydr	06 p0060 A75-27791	GOTHARIS, I. Demand for scientific and techni	cal mannower in
	08 p0180 A75-44812	energy-related industries: Un	
Hydrogen production by electrolysis future	s - Present and	1970-1985 [PB-240865]	08 p0201 N75-28964
•	08 p0193 A75-46022	GUTSTRIN, B.	
GREGORY, J. W. Propulsion technology needs for ad	vanced space	Liquid-metal binary cycles for a [NASA-TH-D-7955]	08 p0205 N75-30649
transportation systems [AIAA PAPER 75-1246]	08 p0182 A75-45656	GUYOL, N. B. The approaching energy crisis:	A call for action
GREY, J.	•	and afternooning chory! onton	05 p0030 N75-12432
Solar energy for earth: An AIAA as	sessment 07 p0110.275-31267	u	
GRPPIE, W.	-	Н	
Energy policy and resource managem [GPO-33-634]	ent 07 p0149 N75-25300	Research on cadmium stannate sel	ective ontical
GRIPPITE, B. W.	37 po (43 a73 23300	films for solar energy applica	
Report on progress in achieving di		[PB-236208/5]	06 p0071 N75-16117
of a major fraction of sonic flow into electrical power by electron		Electric power generation utiliz	ing a heat pine
/EFD/ processes	_	turbine-generator	
GRIGGS, B. I.	05 p0009 A75-10576	HAAS, S. A.	07 p0139 N75-24096
Fluid manifold design for a solar of	energy storage	An integrated solar heated and c	
tank [HASA-TH-X-64940]	07 p0160 N75-27562	HACK, D.	08 p0184 A75-45927
GRIGOREY, V. N. Utilizing fuel more efficiently in	reheating and	Energy policy and resource manag [GPO-33-634]	ement 07 p0149 N75-25300
heat treatment furnaces		HADLEY, H. C., JR.	-
[BLL-H-21957-(5828.4P)] GRINGARTEN, A. C.	06 p0080 H75-17467	CdS/Cu2S solar cells, their pote limitations	ntial and
Theory of heat extraction from fra	ctured hot dry		08 p0188 A75-45961
rock	06 p0057 A75-26544	Geothernics with special referen	ce to application
GROLL, B.		•	05 p0011 A75-11576
Investigation of bubble formation : gas-controlled heat pipes	in arteries or	EAFER, J. P. Control system design and simula	tion for solar
[AIAA PAPER 75-655]	7 p0114 A75-32913	heated structures	
GRONHOVD, G. H.			
		[LA-UR-74-1085]	06 p0082 N75-17813
Technology and use of lignite [PB-238666/2]	07 p0142 #75-24131	[LA-UR-74-1085] HAFBB, X Impact on aerodynamic design	,
Technology and use of lignite [PB-238666/2] GRONICH, S.	-	HAPBB, X Impact on aerodynamic design	06 p0082 #75-17813 06 p0075 #75-16982
Technology and use of lignite [PB-238666/2] GROWICH, S. Evaluation of central solar tower p	power plant 05 p0003 A75-10515	HAPBE, I. Impact on aerodynamic design BAGE, M. Investigation of bubble formatio	06 p0075 #75-16982
Technology and use of lignite [PB-238666/2] GRONICH, S. Evaluation of central solar tower Evaluation of central solar tower	power plant 05 p0003 A75-10515 power plant	HAPBE, I. Impact on aerodynamic design HAGE, M. Investigation of bubble formatio gas-controlled heat pipes	06 p0075 #75-16982
Technology and use of lighte [PB-238666/2] GROWICH, S. Evaluation of central solar tower p Evaluation of central solar tower p GROSE, L. 7.	power plant 55 p0003 A75-10515 power plant 77 p0116 A75-34531	HAPBE, I. Impact on aerodynamic design HAGE, M. Investigation of bubble formatio gas-controlled heat pipes [AIAA PAPER 75-655] HAGGERTY, W. J.	06 p0075 B75-16982 n in arteries of 07 p0114 A75-32913
Technology and use of lighte [PB-238666/2] GRONICH, S. Evaluation of central solar tower Evaluation of central solar tower GROSE, L. 1. The Colorado School of Mines Nevada	power plant 55 p0003 A75-10515 power plant 77 p0116 A75-34531	HAPBE, I. Impact on aerodynamic design HAGB, H. Investigation of bubble formatio gas-controlled heat pipes [AIAA PAPER 75-655] HAGGERTI, W. J. The nation's first private indus heating system - General Elect	06 p0075 H75-16982 n in arteries of 07 p0114 A75-32913 trial solar
Technology and use of lighite [PB-238666/2] GRONICH, S. Evaluation of central solar tower Evaluation of central solar tower GROSE, L. T. The Colorado School of Bines Nevada	power plant 05 p0003 A75-10515 power plant 07 p0116 A75-34531 a geothermal study 06 p0099 N75-20837	HAFBE, I Impact on aerodynamic design BAGB, M. Investigation of bubble formatio gas-controlled heat pipes [AIAA PAPER 75-655] HAGGERTY, W. J. The nation's first private indus	06 p0075 H75-16982 n in arteries of 07 p0114 A75-32913 trial solar
Technology and use of lighte [PB-238666/2] GRONICH, S. Evaluation of central solar tower Evaluation of central solar tower GROSE, L. 7. The Colorado School of Mines Nevada GROSS, B. G. Laser induced luminescence signatur and virgin crude petroleum - The	power plant 15 p0003 A75-10515 20 power plant 17 p0116 A75-34531 A geothermal study 16 p0099 N75-20837	HAPBE, I. Impact on aerodynamic design HAGB, H. Investigation of bubble formatio gas-controlled heat pipes [AIAA PAPER 75-655] HAGGERTI, W. J. The nation's first private indus heating system - General Elect Space Center HAHB, R. B.	06 p0075 H75-16982 n in arteries of 07 p0114 A75-32913 trial solar ric's Valley Porge 08 p0184 A75-45925
Technology and use of lighite [PB-238666/2] GRONICH, S. Evaluation of central solar tower Evaluation of central solar tower GROSE, L. T. The Colorado School of Hines Nevado GROSS, H. G. Laser induced luminescence signatur and virgin crude petroleum - Thei and remote sensing implications	power plant 15 p0003 A75-10515 20 power plant 17 p0116 A75-34531 A geothermal study 16 p0099 N75-20837	HAPBE, I Impact on aerodynamic design BAGB, M. Investigation of bubble formatio gas-controlled heat pipes [AIAA PAPER 75-655] HAGGERTI, W. J. The nation's first private indus heating system - General Elect Space Center	06 p0075 H75-16982 n in arteries of 07 p0114 A75-32913 trial solar ric's Valley Porge 08 p0184 A75-45925 otothermal solar
Technology and use of lighte [PB-238666/2] GRONICH, S. Evaluation of central solar tower Evaluation of central solar tower GROSE, L. T. The Colorado School of Mines Nevada GROSS, B. G. Laser induced luminescence signatur and virgin crude petroleum - The and remote sensing implications GROSSKREUTZ, J. C.	power plant 15 p0003 A75-10515 20 power plant 16 p0116 A75-34531 20 poothermal study 20 p0099 N75-20837 21 ces of refined 21 composition 22 p0050 A75-23790	HAPBE, I. Impact on aerodynamic design HAGB, M. Investigation of bubble formatio gas-controlled heat pipes [AIAA PAPER 75-655] HAGGERTI, W. J. The nation's first private indus heating system - General Elect Space Center HAHB, R. B. Thick semiconductor films for phe energy conversion	06 p0075 H75-16982 n in arteries of 07 p0114 A75-32913 trial solar ric's Valley Porge 08 p0184 A75-45925
Technology and use of lighite [PB-238666/2] GRONICH, S. Evaluation of central solar tower Evaluation of central solar tower GROSE, L. T. The Colorado School of Hines Nevado GROSS, H. G. Laser induced luminescence signatur and virgin crude petroleum - Thei and remote sensing implications	power plant 15 p0003 A75-10515 20 power plant 16 p0116 A75-34531 20 poothermal study 20 p0099 N75-20837 21 ces of refined 21 composition 22 p0050 A75-23790	HAPBR, I. Impact on aerodynamic design BAGB, M. Investigation of bubble formatio gas-controlled heat pipes [AIAA PAPER 75-655] BAGGERTY, W. J. The nation's first private indus heating system - General Elect Space Center HABB, R. B. Thick semiconductor films for pho-	06 p0075 H75-16982 n in arteries of 07 p0114 A75-32913 trial solar ric's Valley Porge 08 p0184 A75-45925 ptothermal solar 08 p0165 A75-38956
Technology and use of lightie [PB-238666/2] GRONICH, S. Evaluation of central solar tower Evaluation of central solar tower Evaluation of central solar tower GROSE, L. 7. The Colorado School of Mines Nevada GROSS, H. G. Laser induced luminescence signatur and virgin crude petroleum - Thei and remote sensing implications GROSSKREUTZ, J. C. Dynamic conversion of solar general electricity [MASA-CE-134724]	power plant 15 p0003 A75-10515 25 p0003 A75-10515 25 p0007 p0116 A75-34531 26 geothermal study 26 p0099 N75-20837 27 ces of refined 28 p0050 A75-23790 28 deat to 28 p0066 N75-16079	HAPBE, I. Impact on aerodynamic design HAGB, M. Investigation of bubble formatio gas-controlled heat pipes [AIAA PAPER 75-655] HAGGERTY, W. J. The nation's first private indus heating system - General Elect Space Center HAHB, R. B. Thick semiconductor films for phenergy conversion HAKKI, A. Where the boilers are: A survey utility boilers with potential	06 p0075 H75-16982 n in arteries of 07 p0114 A75-32913 trial solar ric's Valley Porge 08 p0184 A75-45925 ptothermal solar 08 p0165 A75-38956 of electric
Technology and use of lightie [PB-238666/2] GRONICH, S. Evaluation of central solar tower Evaluation of central solar tower GROSE, L. T. The Colorado School of Hines Nevada GROSS, H. G. Laser induced luminescence signatur and virgin crude petroleum - Thei and remote sensing implications GROSSKREUTZ, J. C. Dynamic conversion of solar general electricity [NASA-CE-134724] Solar thermal conversion program. receiver POCE project, subsystem	power plant 15 p0003 A75-10515 15 p0003 A75-10515 16 p0016 A75-34531 16 geothermal study 16 p0099 N75-20837 17 ces of refined 17 composition 18 p0050 A75-23790 18 p0066 B75-16079	HAPBE, I. Impact on aerodynamic design BAGB, M. Investigation of bubble formatio gas-controlled heat pipes [AIAA PAPER 75-655] HAGGERTY, W. J. The nation's first private indus heating system - General Elect Space Center HAHB, R. B. Thick semiconductor films for phenergy conversion HAKKI, A. Where the boilers are: A survey utility boilers with potential burning solid waste as fuel [PB-239392/4]	06 p0075 H75-16982 n in arteries of 07 p0114 A75-32913 trial solar ric's Valley Porge 08 p0184 A75-45925 ptothermal solar 08 p0165 A75-38956 of electric
Technology and use of lighte [PB-238666/2] GRONICH, S. Evaluation of central solar tower Evaluation of central solar tower Evaluation of central solar tower GROSE, L. 7. The Colorado School of Mines Nevada GROSS, B. G. Laser induced luminescence signatur and virgin crude petroleum - Their and remote sensing implications GROSSKREUTZ, J. C. Dynamic conversion of solar generat electricity [NASA-CE-134724] Solar thermal conversion program. receiver POCE project, subsystem studies	power plant 15 p0003 A75-10515 15 p0003 A75-10515 16 p0016 A75-34531 16 geothermal study 16 p0099 N75-20837 17 ces of refined 17 composition 18 p0050 A75-23790 18 p0066 B75-16079	HAPBE, I. Impact on aerodynamic design HAGB, M. Investigation of bubble formatio gas-controlled heat pipes [AIAA PAPER 75-655] HAGGERTY, W. J. The nation's first private indus heating system - General Elect Space Center HAHB, R. B. Thick semiconductor films for phenergy conversion HAKKI, A. Where the boilers are: A survey utility boilers with potential burning solid waste as fuel	06 p0075 H75-16982 n in arteries of 07 p0114 A75-32913 trial solar ric's Valley Porge 08 p0184 A75-45925 ottohermal solar 08 p0165 A75-38956 of electric capacity for 07 p0143 H75-24135

BALCROW, R. (OW, m. i) is energy and fuel demand to 1900, a configuration by user within Petroleum Administration for Defense (PAD) districts

07 p0151 875-25322 US energy and fuel demand to 1985, a composite [PB-239343/7] BALBY Providing for a national fuels and energy conservation policy, establishing an office of energy conservation in the Department of the Interior, and for other purposes 08 p0208 N75-31953 [H-RBPT-93-1546] HALL, C. A.
Low thermal flux glass-fiber/metal vessels for LH2 storage systems . 08 p0177 A75-44783 Assessment of the potential of clean fuels and energy technology [PB-239970/7] 07 p0162 N75-27583 HALL, J. B.
Design and operation of a solar-powered turbocompressor air-conditioning and heating system 08 n0 186 A75-45939 HALL. D. K. Proceedings of the Workshop on Reeds for Fundamental Research in Catalysis as Related to the Energy Problem [PB-236683/9] 06 p0078 175-17006 HALLET, R. W., JR.
Evaluation of central solar tower power plant
05 p0003 A75-10515 Evaluation of central solar tower power plant 07 p0116 A75-34531 HALPERN, J. Workshop on Fundamental Research in Homogeneous catalysis as Related to US Energy Problems [PB-240177/6] 08 p0200 N75-28524 HALS, P. A. Progress in development of auxiliary HHD power plant components at Avco Everett Research Laboratory, Inc [ASME PAPER 74-WA/ENER-6] 05 p0016 A75-16838 Corrosion studies of materials for auxiliary equipment in HHD power plants 06 p0055 A75-24384 High temperature air preheaters for open cycle HHD energy conversion systems
[AICHE PAPER 16] 08 p0196 A75-475 HABIL, B. F.

The collaborative study of EPA methods, 5, 6, and
7 in fossil fuel-fired steam generators
[PB-237695/2]

06 p0091 H75-18 06 p0091 N75-18788 HAMILTON, J. T. Transfer of space technology to industry 06 p0078 #75-17195 HABILTON, Large diameter 300 PSI gasifier. Preliminary engineering report. Volume 1:
[PB-238360/2] Description 06 p0105 N75-20889 HABILTON, W. P.
Impact of future use of electric cars in the Los Angeles region. Volume 1: Executive summary and technical report [PB-238877/5] 07 p0131 N75-22199 Impact of future use of electric cars in the Los Angeles region. Volume 2: Task reports on electric car characterization and baseline projections [PB-238878/3] 07 p0131 N75-22200 Impact of future use of electric cars in the Los Angeles region. Volume 3: Task reports on impact and usage analysis
[PB-238879/1] 07 p0131 87 07 p0131 #75-22201 Babbel, B. J. Energy and crycengineering
[LA-UR-74-741] 06 p0082 N75-17814 HANNER, J. H.
Dynamic conversion of solar generated heat to electricity
[MASA-CR-134724] 06 p0066 N75-16079 EARROND, O.
The economics of coal-based synthetic gas
08 p0168 A75-39925 EARMOND, V. 1.

Sethanol from forestry, municipal, and agricultural organic residues [BHWL-SA-5053] 06 p0085 #75-18702

. . .

HAMPSON, P. J. Can hydrogen transmission replace electricity 08 p0165 A75-38863 Will hydrogen transmission replace electricity 08 p0172 A75-42281 HABDLEY, L. B. DLRY, L. m. Hultimegawatt fuel cell power system 07 p0124 A75-37656 Development of advanced fuel cell system, phase 2 [NASA-CR-134721] 06 p0067 N75-16084 Development of advanced fuel cell system, phase 3
Development of advanced fuel cell system, phase 3
07 p0154 B75-26496 [NASA-CR-134818] Electric power generation using geothermal brine resources for a proof of concept facility
06 p0101 H75-20857 HANKIES, R. P., JE.
Cooling a light industrial building in Puerto Rico using solar energy
[AIAA PAPER 75-612] 08 p0170 A75-41178 HAMES, G. W.
Puel conservation possibilities for terminal area compatible transport aircraft [AIAA PAPER 75-1036] 08 p0171 A75-41698 Weight contribution to fuel conservation for terminal area compatible aircraft [SAWE PAPER 1091] 08 p0196 A75-47509 HANNEMAN, R. R. Closed loop chemical systems for energy transmission, conversion and storage 05 p0005 A75-10538 HAHOLD, R. J. The initiatives of the Los Alamos Scientific Laboratory in the transfer of a new excavation technology 06 p0079 N75-17203 HAMSELMAN, B.
The HHD generator: A step toward the energy supply of tomorrow
[AD-A000087] 06 p0089 F 06 p0089 N75-18749 HANSON, J. A. Ocean based solar-to-hydrogen energy conversion macro system 08 p0175 A75-44764 Assessment of uranium and thorium resources in the United States and the effect of policy alternatives [PB-238658/9] 07 p0143 N75-24133 HAR-02, P. H. Parametric study for a pyrolytic system for production of fuels from agricultural and forestry wastes 08 p0187 A75-45950 HARAK, A. E.

Shale retorting in a 150-ton batch-type pilot plant
[PB-240263/4] 07 p0151 H75-25328 HARDENBERG, H. Methane gas engines for conmercial vehicles and bussës 06 p0050 A75-23507 HARMAN, W. W.
Plausibility of a restricted energy use scenario
[COM-75-10749/0] 08 p0213 N75-33507 BARPER, S. Conceptual design of reduced energy transports
[AIAA PAPER 75-303] 06 p0047 A75-22508 BARRIS, I. On the optimum tilt of a solar collector 07 p0115 A75-33971 HARRISON, P. L. The potential of natural energy sources 08 p0165 A75-38865 HART, A. B. Can hydrogen transmission replace electricity 08 p0165 A75-38863 Storing electrical energy on a large scale
08 p0165 A75-38864 Will hydrogen transmission replace electricity 08 p0172 A75-42281 HARTLEY, J. H.

Assessment of uranium and thorium resources in the United States and the effect of policy

Evaluation of thermal methods for recovery of

viscous oils in Missouri and Kansas

alternatives

[PB-237831/3]

[PB-238658/9] HARVEY, A. H.

07 p0143 N75-24133

06 p0090 #75-18762

The International Boat Bine Bunerisent		COMEMUS, W. B.	
The International Heat Pipe Experiment [AIAA PAPER 75-726] .07 p0	113 A75-32870	Windpower - Look backward, then move confidently	IOLAGIG
Cryogenic heat pipe experiment - Flight			p0014 175-12997
performance onboard a sounding rocket		Ocean thermal power and windpower sy	
[AIAA PAPER 75-729] 07 p0 HASKAL, H. H.	113 175-32872	Natural solar energy conversion for impact on world energy markets	r near-term
Indium tin oxide-coated silicon as a se	lective		p0060 A75-27790
absorber		Gulf stream based ocean thermal power	r plants
	195 175-46951		p0063 A75-28603
HASSENZAML, W. V. Will superconducting magnetic energy st		Wind and solar thermal combinations heating	for space
used on electric utility systems	,		p0192 A75-46010
		Technical and economic feasibility of	
Economic and system aspects of a superc magnetic energy storage device and a		thermal differences process as a senergy process	olar-driven
superconducting transmission line	ac		p0077 N75-17003
[LA-UR-74-1145] 06 p0	091 N75-19080	Oceanic and atmospheric energy source	es
HATSOPOULOS, G. W.	i en unn		p0139 N75-24101
The growth of thermionic energy convers		WIG, L. O. Report on photovoltaics research and	technology in
HAUSHAN, J. A.		the United States	cccmmology in
Project Independence report: A review			p0051 A75-24214
energy needs up to 1985 [PB-242142/8] 08 p0		S, H. V. Hydrocarbon power fuel from the gaso	line hoiling
HAYHOS, J.	213 473 33300	range	TIME DOTTING
The COMSAT non-reflective silicon solar		[NASA-TT-P-16399] 07	p0147 N75-24957
second generation improved cell		ITT, H. C.	
HEALY, T. J.	053 A75-24245 1	Pluid manifold design for a solar en tank	ergy storage
Energy use of public transit systems			p0160 N75-27562
	209 N75-31962 HBW:	SON, B. W.	• • • • • • • • • • • • • • • • • • • •
HEATH, A. R., JR.		Generation of power from the wind	
Puel conservation possibilities for ter compatible transport aircraft		WOOD, J. B.	p0167 A75-39365
		The role for Federal R and D on alte	rnative
HEDLEY, W. H.		automotive power systems	.*
Effect of gas turbine efficiency and fu			p0137 N75-23391
cost of producing electric power [PB-234159/2] 05 p0)34 N75-13397 C	BS, A. R. Caltech seminar series on energy con	sumption in
Efficiencies in power generation		private transportation: Administr	
)34 N75-13398		p0041 N75-15184
HEDSTROB, J. C. Control system design and simulation fo		KHAH, R. G. Thermochemical hydrogen production r	ocearch at
heated structures	Solai	Lawrence Livermore Laboratory	ssearch ac
[LA-UR-74-1085] 06 p0)82 N75-17813		p0177 A75-44780
EBHUBU, B.		KS, D. C.	
Solar generator and power systems for communication satellites	•	Application of superconducting elect machinery to the propulsion system:	
	206 N75-31165	commercial vessels	
HEIH, L. A.			p0147 N75-25200
Mechanical thermal motor [NASA-CASE-HFS+23062-1] 07 p0		A, W. H. Stirling cycle engine and refrigerat:	ion systems
HRIES, C. P.	200 11/3 2/301	[NASA-CASE-NPO-13613-1] 07	
Applications of aerospace technology in		GIBS, P. G., JR.	
electric power industry	179 N75-17197	Engineering and cost study of air po control for the petrochemical indu	
HESSE, R.	779 1175-17197	3: Ethylene dichloride manufacture	
Collector work function improvements and		oxychlorination	•
development of lcw temperature thermi-			p0162 175-27612
converters		SINS, G. P. Intermediate-term energy programs to	protect
HENNIGER, B. R.	2.0 13,00	against crude-petroleum import inte	
Relationships of earth fracture systems		Peasible alternatives, program cost	s, and
productivity of a gas storage reservo:	r 89 N75-18759	operational methods of funding [PB-237209/2] 06	p0083 N75-17826
[PB-237894/1] ' 06 p0		GIBS, J. H.	p0003 #/3-1/020
Peasibility study of alternative fuels	or S	Solar One, two years experience	
automotive transportation. Volume 1:			p0184 A75-45922
summary [PB-235581/6] 05 p00		Proceedings of the Workshop on Needs	for
Peasibility study of alternative fuels		Fundamental Research in Catalysis	
automotive transportation. Volume 2:	Technical	the Energy Problem	
section (5 po	41 N75-15188 HILD	[PB-236683/9] 06 DEBRANDT, A. F.	p0078 N75-17006
[PB-235582/4] 05 p00 Peasibility study of alternative fuels a		colar tower thermo-chemical energy cy	cles
automotive transfortation. Volume 3:	Appendices	08	p0171 A75-42277
	41 N75-15189 A	tower-top point focus solar energy	collector
ESSENDER, B. A. Energy use in the commercial and industr	ial HILL	., J. E.	p0174 A75-44753
sectors of the US economy, 1963	, L	aboratory based activities in solar	energy at the .
	70 175-16104	National Bureau of Standards	-0160 175 40000
EBBOWERUS, w. Technical and economic feasibility of the	e ocean	UB Lethod of testing for rating solar co	p0168 A75-40299
thermal differences process as a solar		based on thermal performance	
energy process			p0150 #75-25321
[PB-239374/2] 07 p01	50 H75-25317		

HINCKLBY, B. CKLET, B.
Technology and current practices for processing, transferring and storing liquefied natural gas rpn-201048/81 08 p0202 B75-29271 HINRICHS, T. C.
San Diego Gas and Riectric Company Imperial Valley geothermal activities 06 p0100 N75-20847 Utility company views of geothermal development 06 p0102 N75-20864 HIRSCH, R. L. Pusion power by magnetic confinement - Plans and the associated need for nuclear engineers 08 p0170 A75-41433 Total energy use for connercial aviation in the US [ORNL-MSF-EP-68] 05 p0023 B75-10039 HISBR, H. W.
Determining potential solar power sites in western
hemisphere ocean and land areas based upon 07 p0118 A75-35461 HITTLE, D. C. Solar heating and cooling of Army buildings 08 p0184 A75-45926 HO, R. Terrestrial and space applications of the migma controlled fusion concept [AIAA PAPER 75-1263] 08 p0182 A75-45663 HOCH, I. Legal economic, and energy considerations in the use of underground space [PB-236755/5] 06 p0080 N75-17749 BODSOB, D. R.
Application of rocket engine technology to energy
08 p0185 A75-45933 HOERH, F. W.
Peasibility demonstration of a road vehicle fueled with hydrogen-enriched gasoline 05 p0008 A75-10574 Economics of hydrogen energy systems 08 p0172 A75-42285 On the role of hydrogen in electric energy storage 08 p0178 A75-44797 Metal hydrides as hydrogen storage media
[BNL-18887] 05 p0030 N75-12440
Iron titanium hydride as a source of hydrogen fuel for stationary and automotive applications 05 p0030 N75-12441 [BNL-18651] Energy systems analysis and technology assessment program [BNL-18984] 06 p0094 N75-19831 Metal hydrides as a source of hydrogen fuel 06 p0104 N75-20876 [BNL-14804-R] 06 p0104 N75-HOFFMAN, L. C. Development and evaluation of a Stirling-Cycle energy conversion system [PB-239086/2] 07 p0136 N75-22918 HOILIMB, K.
Novel materials for power systems. Part 3: Selective emitters for energy conversion [AD-784449] 05 p0026 N75-10608 HOLCOMB, R. S. Design study for a coal-fueled closed cycle gas turbine system for MIUS applications 08 p0187 A75-45948 HOLCOMBE, R. G.
The economic impact of an interruption in United States petroleum imports: 1975 - 2000 08 p0214 N75-33931 [AD-A010914] HOLDAWAY, M. J.

A brief description of geological and geophysical exploration of the Marysville geothermal area
06 p0099 N75-20839 HOLL, R. J.

The selection and use of energy storage for solar thermal electric application 08 n0189 A75-45980 HOLLAREDER. A. Proceedings of the Workshop on Bio-Solar Conversion [PB-236142/6] 06 p0069 N75-16096 HOLLAND, T. H. Development of flat-plate solar collectors for the heating and cooling of buildings
07 p0154 N75-26495

HOLLECK, G. L.
Sulfur-based lithium-organic electrolyte secondary batteries [AD-A003309]

HOLLEWBERG, J. W.

Hydrogen as a fuel

[AD-787484] 06 p0104 #75-20882 06 p0066 #75-15818 Hydrogen as a fuel 07 p0132 #75-22477 [AD-A006984] HOLMAN, R. R.
Consideration of ultra-high temperature nuclear heat sources for MHD conversion systems,
[AIAA PAPER 75-1258] 08 p0182 A75-45659 HOLT, B. Investment and operating costs of binary cycle geothermal power plants 06 p0101 N75-20855 HOLT, J. P.
HHD energy conversion systems 05 p0001 A75-10263 [AIAA PAPER 74-1071] MHD energy conversion for high power electrical needs 07 p0124 A75-37657 HOLY, Z. J. Comparison of the environmental aspects of nuclear and fossil fueled power stations [CONF-740555-1] 06 p0077 H75-169 06 p0077 N75-16995 Study of an electrofluidic generator 08 p0189 A75-45978 HORD. J. Research opportunities in cryogenic hydrogen-energy systems 08 p0171 A75-42280 Cryogenic H2 and national energy needs 08 p0173 A75-43977 Selected topics on hydrogen fuel [COM-75-10619/5] 08 p0207 N75-31575 BORIGORE, T.
Solar power generating systems as sources of non-polluting energy (power generation in space and power generation on the ground)
[NASA-TT-P-16091] 05 p0033 N75-13: 05 p0033 N75-13383 Solar energy [NASA-TT-P-16092] 05 p0038 N75-15149 HORLOCK, J. H.
Availability and propulsion 08 p0195 A75-46548 HOSKEN, R. W. Compact solar energy concentrator 05 p0021 A75-19050 HOTCHKISS, R. C. The potential of natural energy sources 08 p0165 A75-38865 BOUSER. G. M. Impact of future use of electric cars in the Los Angeles region. Volume 2: Task reports on electric car characterization and baseline projections
[PB-238878/3] 07 p0131 N75-22200 HOUSTON, J. E. Surface electronic properties and the search for new hydrogen oxidation catalysts 08 p0178 A75-44795 Technique for producing 'good' Gals solar cells using poor-quality substrates 08 p0195 A75-46721 HOWARD, B. C.

DART: A simulation code for a direct energy converter for fusion reactors

[UCRL-51557] 05 p0043 m 05 p0043 #75-15462 HOWARD, P. S. Potential structural material problems in a hydrogen energy system [NASA-TM-X-71752] 07 p0154 #75-26500 HOWELL, J. R. Trapezoidal grooves as moderately concentrating solar energy collectors
[AIAA PAPER 75-738] 07 p0113 A75-32860 Moderately concentrating flat-plate solar energy collectors [ASME PAPER 75-HT~54] 08 p0196 A75-47526 The evaluation of surface geometry modification to improve the directional selectivity of solar energy collectors [PB-236412/3] 06 p0083 N75-17830

1

The evaluation of surface geometr		
		HUST, J. G.
improve the directional selecti	Vity of solar	Selected topics on hydrogen fuel
energy collectors [pB-238509/4]	07 p0130 H75-21822	[COM-75-10619/5] 08 p0207 m75-31575 HUTCHBY, J. A.
HOURRTON, T.	07 po 130 B/3 21622	High-efficiency graded band-gap
The design of a solar cavity stea	m generator for	Al/x/Ga/1-x/As-GaAs solar cell
electrical power generation	•	06 p0058 A75-27519
	08 p0190 A75-45982	BUTCHIES, S. P.
BOWLETT, R.		Development of a 540-sq-ft prototype faceted fixed
The Harwell thermo-mechanical gen	erator 05 p0009 A75-10579	mirror solar concentrator
HSU, H. S. S.	05 p0009 k75-10579	08 p0186 A75-45940 HUTTER, U.
High-efficiency electrochemical p	lant	Wind power machines
	08 p0189 A75-45977	[NASA-TT-F-16195] 06 p0080 B75-17786
HUANG, C. J.	_	
Energy recovery from solid waste		1
Torres woodeness from cold works	06 p0079 N75-17200	I TANADAN T B
Energy recovery from solid waste. Technical report	folume 2:	IAKUBOV, I. T. Calculation of the electrical conductivity of the
[NASA-CR-2526]	07 p0148 N75-25292	combustion products of the working medium in an
HUBBERT, B. K.		open-cycle MHD generator
Mineral resources and the environ		07 p0112 A75-31568
to section 2: Report of panel	on estimation of	IAKUBOV, IU. B.
mineral reserves and resources	07 -0153 975-26900	Method for calculating solar radiation for
[PB-239581/2] HUBERNAN, M. N.	07 p0153 N75-26488	semicylindrical collectors 06 p0057 A75-26718
Study on electrofluid dynamic pow	er generation	IANTUONO, A.
[AD-A004762]	07 p0155 N75-26507	Industrial process heat from solar energy
HUDSON, M.	•	08 p0190 A75-45992
Energy and security: Implication	s for American '	IBRAGIMOV, D. I.
policy	of 0000 HEE 1005	Effectiveness of using semiconductor heat pumps
[AD-785084]	05 p0032 N75-12857	under the conditions of the Turkmen SSR
HUDSON, S. E. An engine project engineer's view	of advancéd	05 p0020 A75-17083
secondary power systems	02 00/02000	Energy. Volume 1 - Demands, resources, impact,
[SAE PAPER 740884]	05 p0019 A75-16925	technology, and policy
HUPPHAN, P. B.	<u>-</u>	06 p0045 A75-20066
The growth of thermionic energy c		IIJIMA, T.
ni	08 p0187 A75-45954	The practical lithium/poly-carbonmonofluoride.
Electrodes for thermionic energy	08 p0188 A75-45957	Dattery system 08 p0188 A75-45964
Topping cycle applications of the		ILARI, 0.
softend alone of the control of the	08 p0188 A75-45972	Beneficial uses of waste heat
EUGHES, E. S.		[RT/PROT-(74)10] 06 p0068 M75-16091
The potential of natural energy s		ILES, P. A.
	08 p0165 A75-38865	Effect of impurity doping concentration on solar
Development of an electrical gene	retor and	cell output 07 p0124 A75-37404
electrolysis cell for a wind en-		
electrolysis cell for a wind en- system		ILLIG, E. G. Conversion of cellulosic wastes to oil
system [PB-239272/8]		ILLIG, E. G.
system [PB-239272/6] HUGHES, W. L.	ergy conversion 07 p0150 H75-25315	ILLIG, B. G. Conversion of cellulosic wastes to oil [PB-240839/1] 07 p0161 H75-27572 INGLET, H. A.
system [PB-239272/6] HUGHES, W. L. Solar energy conversion and store	ergy conversion 07 p0150 H75-25315	Conversion of cellulosic wastes to oil [PB-240839/1] 07 p0161 H75-27572 INGLET, H. A. Selection and evaluation of the University of
system [PB-239272/6] HUGHES, W. L.	ergy conversion 07 p0150 N75-25315 ge systems for	ILLIG, E. G. Conversion of cellulosic wastes to oil [PB-240839/1] 07 p0161 M75-27572 IMGLEY, H. A. Selection and evaluation of the University of Plorida's solar powered absorption air
system [PB-239272/8] HUGHES, W. L. Solar energy conversion and stored the future	ergy conversion 07 p0150 H75-25315 ge systems for 05 p0013 A75-12988	ILLIG, E. G. Conversion of cellulosic wastes to oil [PB-240839/1] 107 p0161 B75-27572 INGLEY, H. A. Selection and evaluation of the University of Plorida's solar powered absorption air conditioning system
system [PB-239272/6] HUGHES, W. L. Solar energy conversion and store	ergy conversion 07 p0150 H75-25315 ge systems for 05 p0013 A75-12988	ILLIG, E. G. Conversion of cellulosic wastes to oil [PB-240839/1] 07 p0161 M75-27572 IMGLEY, H. A. Selection and evaluation of the University of Plorida's solar powered absorption air
system [PB-239272/8] HUGHES, W. L. Solar energy conversion and stored the future	ergy conversion 07 p0150 h75-25315 ge systems for 05 p0013 h75-12988 y on a large scale 05 p0015 h75-14014	Conversion of cellulosic wastes to oil [PB-240839/1] INGLET, H. A. Selection and evaluation of the University of Plorida's solar powered absorption air conditioning system [ASME PAPER 74-WA/SOL-6] 05 p0019 A75-16889
system [PB-239272/8] HUGHES, W. L. Solar energy conversion and storage the future Prospects for tapping solar energy	orgy conversion 07 p0150 H75-25315 ge systems for 05 p0013 A75-12988 y on a large scale 05 p0015 A75-14014 wind generation	Conversion of cellulosic wastes to oil [PB-240839/1] 107 p0161 H75-27572 INGLEY, H. A. Selection and evaluation of the University of Plorida's solar powered absorption air conditioning system [ASME PAPER 74-WA/SOL-6] Beating buildings with solar energy 07 p0117 A75-34933 Solar characteristics of new absorptive coatings
system [PB-239272/6] HUGHES, W. L. Solar energy conversion and storage the future Prospects for tapping solar energy Economic and technical aspects of systems	ergy conversion 07 p0150 h75-25315 ge systems for 05 p0013 h75-12988 y on a large scale 05 p0015 h75-14014	Conversion of cellulosic wastes to oil [PB-240839/1] INGLEY, H. A. Selection and evaluation of the University of Plorida's solar powered absorption air conditioning system [ASME PAPER 74-VA/SOL-6] Beating buildings with solar energy 07 p0117 A75-34933 Solar characteristics of new absorptive coatings used on solar collectors
system [PB-239272/8] HUGHES, W. L. Solar energy conversion and storacthe future Prospects for tapping solar energy Economic and technical aspects of	orgy conversion 07 p0150 N75-25315 ge systems for 05 p0013 A75-12988 y on a large scale 05 p0015 A75-14014 wind generation 07 p0116 A75-34533	ILLIG, E. G. Conversion of cellulosic wastes to oil [PB-240839/1] 107 p0161 B75-27572 IBGLEY, H. A. Selection and evaluation of the University of Plorida's solar powered absorption air conditioning system [ASME PAPER 74-WA/SOL-6] Beating buildings with solar energy 07 p0117 A75-34933 Solar characteristics of new absorptive coatings used on solar collectors 07 p0117 A75-34934
system [PB-239272/8] HUGHES, W. L. Solar energy conversion and storacthe future Prospects for tapping solar energy Economic and technical aspects of systems Wind energy utilization prospects	orgy conversion 07 p0150 H75-25315 ge systems for 05 p0013 A75-12988 y on a large scale 05 p0015 A75-14014 wind generation	Conversion of cellulosic wastes to oil [PB-240839/1] 107 p0161 H75-27572 INGLEY, H. A. Selection and evaluation of the University of Plorida's solar powered absorption air conditioning system [ASME PAPER 74-WA/SOL-6] Beating buildings with solar energy 07 p0117 A75-34933 Solar characteristics of new absorptive coatings used on solar collectors 07 p0117 A75-34934 Methodology of research of flat-plate solar
system [PB-239272/6] HUGHES, W. L. Solar energy conversion and storage the future Prospects for tapping solar energy Economic and technical aspects of systems	orgy conversion 07 p0150 x75-25315 ge systems for 05 p0013 x75-12988 yon a large scale 05 p0015 x75-14014 wind generation 07 p0116 x75-34533 07 p0117 x75-34928	ILLIG, E. G. Conversion of cellulosic wastes to oil [PB-240839/1] 107 p0161 B75-27572 IBGLEY, H. A. Selection and evaluation of the University of Plorida's solar powered absorption air conditioning system [ASME PAPER 74-WA/SOL-6] Beating buildings with solar energy 07 p0117 A75-34933 Solar characteristics of new absorptive coatings used on solar collectors 07 p0117 A75-34934
system [PB-239272/8] HUGHES, W. L. Solar energy conversion and storacthe future Prospects for tapping solar energy Economic and technical aspects of systems Wind energy utilization prospects Energy storage by high-pressure, moderate-temperature electrolytims	orgy conversion 07 p0150 x75-25315 ge systems for 05 p0013 x75-12988 yon a large scale 05 p0015 x75-14014 wind generation 07 p0116 x75-34533 07 p0117 x75-34928	Conversion of cellulosic wastes to oil [PB-240839/1] INGLEY, H. A. Selection and evaluation of the University of Plorida's solar powered absorption air conditioning system [ASME PAPER 74-WA/SOL-6] Heating buildings with solar energy 07 p0117 A75-34933 Solar characteristics of new absorptive coatings used on solar collectors 07 p0117 A75-34934 Methodology of research of flat-plate solar collector absorptive coatings 07 p0117 A75-34935 The University of Florida solar powered
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system [PB-239272/8] HUGHES, W. L. Solar energy conversion and storacthe future Prospects for tapping solar energy Economic and technical aspects of systems Wind energy utilization prospects Energy storage by high-pressure, moderate-temperature electrolyt: HUMPHRIES, B. R. Solar residential heating and cool development test program [MASA-TH-X-64924] Fluid manifold design for a solar tank [MASA-TH-X-64940] HUMPHRIES, D. A. A study of technological improvem- automobile fuel consumption. Vo Comprehensive discussion [PB-238694/4] A study of technological improvem- automobile fuel consumption. Vo Comprehensive discussion [PB-238694/4] A study of technological improvem- automobile fuel consumption. Vo Comprehensive discussion [PB-238694/4] A study of technological improvem- automobile fuel consumption. Vo Appendixes 1 - 111	orgy conversion 07 p0150 N75-25315 ge systems for 05 p0013 A75-12988 yon a large scale 05 p0015 A75-14014 wind generation 07 p0116 A75-34533 07 p0117 A75-34928 ic techniques 08 p0185 A75-45931 ling system 07 p0135 N75-22903 energy storage 07 p0160 N75-27562 ents in blume 1: 07 p0132 N75-22481 ents in blume 2: 07 p0132 N75-22482 ents in blume 3A:	ILLIG, E. G. Conversion of cellulosic wastes to oil [PB-240839/1] O7 p0161 H75-27572 INGLEY, H. A. Selection and evaluation of the University of Plorida's solar powered absorption air conditioning system [ASME PAPER 74-WA/SOL-6] Beating buildings with solar energy O7 p0117 A75-34933 Solar characteristics of new absorptive coatings used on solar collectors O7 p0117 A75-34934 Methodology of research of flat-plate solar collector absorptive coatings O7 p0117 A75-34935 The University of Florida solar powered intermittent ammonia/water absorption air conditioner O7 p0118 A75-34936 Pormulation of a data base for the analysis, evaluation and selection of a low temperature solar powered air conditioning system [PB-238683/7] INHAN, R. B. Energy from agriculture 08 p0191 A75-46000 Effective utilization of solar energy to produce clean fuel [PB-233956/2] IODADNISHVILI, B. K. Optimization of the operating conditions of a combined generator-cooler thermoelement O7 p0121 A75-37155 IORDANISHVILI, B. K. Controlling the response of thermoelements that
system [PB-239272/8] HUGHES, W. L. Solar energy conversion and storact the future Prospects for tapping solar energy Economic and technical aspects of systems Wind energy utilization prospects Energy storage by high-pressure, moderate-temperature electrolyt: BURPHRIES, S. R. Solar residential heating and cool development test program [WASA-TH-X-64924] Pluid manifold design for a solar tank (WASA-TH-X-64980] HUBTHR, D. A. A study of technological improvement of the storage o	orgy conversion 07 p0150 N75-25315 Ge systems for 05 p0013 N75-12988 y on a large scale 05 p0015 N75-14014 wind generation 07 p0116 N75-34533 07 p0117 N75-34928 Ic techniques 08 p0185 N75-45931 ling system 07 p0135 N75-22903 energy storage 07 p0160 N75-27562 ents in plume 1: 07 p0132 N75-22481 ents in plume 2: 07 p0133 N75-22482 ents in plume 3A: 07 p0133 N75-22483	ILLIG, E. G. Conversion of cellulosic wastes to oil [PB-240839/1] IBGLEY, H. A. Selection and evaluation of the University of Plorida's solar powered absorption air conditioning system [ASME PAPER 74-WA/SOL-6] Beating buildings with solar energy O7 p0117 A75-34933 Solar characteristics of new absorptive coatings used on solar collectors O7 p0117 A75-34934 Methodology of research of flat-plate solar collector absorptive coatings The University of Plorida solar powered intermittent ammonia/water absorption air conditioner O7 p0118 A75-34936 Formulation of a data base for the analysis, evaluation and selection of a low temperature solar powered air conditioning system [PB-238683/7] INMAN, R. B. Energy from agriculture O8 p0191 A75-46000 Effective utilization of solar energy to produce clean fuel [PB-233956/2] IODANISHVILI, B. K. Optimization of the operating conditions of a combined generator-cooler thermoelement O7 p0121 A75-37155 IORDANISHVILI, B. K. Controlling the response of thermoelements that generate electricity
system [PB-239272/8] HUGHES, W. L. Solar energy conversion and storacthe future Prospects for tapping solar energy Economic and technical aspects of systems Wind energy utilization prospects Energy storage by high-pressure, moderate-temperature electrolyt: BOMPERIES, S. R. Solar residential heating and cool development test program [HASA-TH-I-64920] Pluid manifold design for a solar tank [WASA-TH-I-64940] BURTER, D. A. A study of technological improvement of the summary [PB-238693/6] A study of technological improvement of the summary [PB-238694/4] A study of technological improvement of the summary [PB-238695/1] A study of technological improvement of the summary [PB-238695/1] A study of technological improvement of the summary [PB-238695/1] A study of technological improvement of the summary [PB-238695/1] A study of technological improvement of the summary [PB-238695/1] A study of technological improvement of the summary [PB-238695/1] A study of technological improvement of the summary [PB-238695/1] A study of technological improvement of the summary [PB-238695/1] A study of technological improvement of the summary [PB-238695/1] A study of technological improvement of the summary [PB-238695/1] A study of technological improvement of the summary [PB-238695/1] A study of technological improvement of the summary [PB-238695/1]	orgy conversion 07 p0150 N75-25315 ge systems for 05 p0013 A75-12988 y on a large scale 05 p0015 A75-14014 wind generation 07 p0116 A75-34533 07 p0117 A75-34928 ic techniques 08 p0185 A75-45931 ling system 07 p0135 N75-22903 energy storage 07 p0160 N75-27562 ents in plume 1: 07 p0132 N75-22481 ents in plume 2: 07 p0132 N75-22482 ents in plume 3A: 07 p0133 N75-22483 ents in	ILLIG, E. G. Conversion of cellulosic wastes to oil [PB-240839/1] O7 p0161 H75-27572 INGLEY, H. A. Selection and evaluation of the University of Plorida's solar powered absorption air conditioning system [ASME PAPER 74-WA/SOL-6] Beating buildings with solar energy O7 p0117 A75-34933 Solar characteristics of new absorptive coatings used on solar collectors O7 p0117 A75-34934 Methodology of research of flat-plate solar collector absorptive coatings O7 p0117 A75-34935 The University of Florida solar powered intermittent ammonia/water absorption air conditioner O7 p0118 A75-34936 Pormulation of a data base for the analysis, evaluation and selection of a low temperature solar powered air conditioning system [PB-238683/7] INHAN, R. B. Energy from agriculture 08 p0191 A75-46000 Effective utilization of solar energy to produce clean fuel [PB-233956/2] IODADNISHVILI, B. K. Optimization of the operating conditions of a combined generator-cooler thermoelement O7 p0121 A75-37155 IORDANISHVILI, B. K. Controlling the response of thermoelements that
system [PB-239272/8] HUGHES, W. L. Solar energy conversion and storact the future Prospects for tapping solar energy Economic and technical aspects of systems Wind energy utilization prospects Energy storage by high-pressure, moderate-temperature electrolyt: BURPHRIES, S. R. Solar residential heating and cool development test program [WASA-TH-X-64924] Pluid manifold design for a solar tank (WASA-TH-X-64980] HUBTHR, D. A. A study of technological improvement of the storage o	orgy conversion 07 p0150 N75-25315 ge systems for 05 p0013 A75-12988 y on a large scale 05 p0015 A75-14014 wind generation 07 p0116 A75-34533 07 p0117 A75-34928 ic techniques 08 p0185 A75-45931 ling system 07 p0135 N75-22903 energy storage 07 p0160 N75-27562 ents in plume 1: 07 p0132 N75-22481 ents in plume 2: 07 p0132 N75-22482 ents in plume 3A: 07 p0133 N75-22483 ents in	ILLIG, E. G. Conversion of cellulosic wastes to oil [PB-240839/1] IBGLEY, H. A. Selection and evaluation of the University of Plorida's solar powered absorption air conditioning system [ASME PAPER 74-WA/SOL-6] Beating buildings with solar energy O7 p0117 A75-34933 Solar characteristics of new absorptive coatings used on solar collectors O7 p0117 A75-34934 Methodology of research of flat-plate solar collector absorptive coatings The University of Plorida solar powered intermittent ammonia/water absorption air conditioner O7 p0118 A75-34936 Formulation of a data base for the analysis, evaluation and selection of a low temperature solar powered air conditioning system [PB-238683/7] INMAN, R. B. Energy from agriculture O8 p0191 A75-46000 Effective utilization of solar energy to produce clean fuel [PB-233956/2] IODANISHVILI, B. K. Optimization of the operating conditions of a combined generator-cooler thermoelement O7 p0121 A75-37155 IORDANISHVILI, B. K. Controlling the response of thermoelements that generate electricity

JOHNSON, P. D. PERSONAL AUTHOR INDEX

	nines in 1973, a	JACOBSON, I. A., JR. Retorting indexes for oil-sha
survey [PB-240154/5]	07 p0152 #75-25354	ethylene-ethane ratios of [PB-234050/3]
Electric power systems analysis		JACOBY, H. D. The role for Federal R and D automotive power systems
SHIDA, H.	-	[PB-238771/0] Januig, C. B.
	to gasification	Evaluation of pollution controls conversion processes. Liqu
SHIHARA, A.	06 p0055 A75-24785	SRC process [PB-241792/1]
Superconducting synchronous made		JAMES, B. C.
	-	Unsteady aerodynamics of war: axis windmill [AIAA PAPER 75-649]
	05 p0005 A75-10537	JAMES, L. W. Gals concentrator solar cell
	08 p0178 A75-44797	JARVIHEN, P. O.
[BNL-19266]	06 p0086 N75-18725	Solar-heated-air turbine gene
Energy problems - Solar energy	and manure gas 05 p0020 A75-17024	JARVIS, P. H. Pumped air storage for elect:
Empirical method of designing t		JASHING, C. B.
thermionic converter	•	Evaluation of pollution controls conversion processes: Gasi
		CO2 acceptor process [PB-241141/1]
		JASSBY, D. L. Optimization of fusion power
	05 p0020 A75-17068	two-energy-component tokama
[AD-A006559]	s and oil centers 07 p0134 N75-22783	JAYA DEVAIAH, T. S. Generation schemes for wind p
Investigation of the optimal Mi characteristics for combinate		JAYADEV, T. S. Electrical generation by wind
Some developments of industrial		JAYADEVAIAH, T. S. Economics of a hydrogen stora
magnetohydrodynamic electric	power plants 06 p0081 N75-17792	[ASHE PAPER 74-WA/PWR-6] JEBIES, A. B. California energy workshop:
· J		action to meet the energy of [PB-237045/0]
	hamm compromatings	JENKINS, J.
	06 p0075 N75-16981	The household energy game [COM-75-10304/4] JENKINS, R. H.
Solar energy storage within the	e absorption cycle 05 p0017 A75-16864	An analysis of photovoltaic thermal control interfaces
ACKSON, C. A.		JENSEN, F. C.
facility design study with en	phasis on energy	Hydrogen generation through selectrolysis
[AD-A006804]	07 p0142 N75-24129	JEBSEB, R.
		Liquid hydrogen - Fuel of the
conservation. Volume 1: Exe	ecutive summary	[SAWE PAPER 1065]
		JERAN, P. W. Methane emission from U.S. Co
		survey [PB-240154/5]
[AD-A006805]	07 p0149 N75-25305	JERIE, J. Part load specific fuel cons
Use of flexible reflective sur	faces for solar ·	
energy concentration	06 p0056 A75-25678	JIMISON, J. Energy policy and resource ma
Clinch River Breeder Reactor:	A combined power	[GPO-33-634] JOHANSSON, M.
[CONF-740609-4]	05 p0038 N75-14593	Exploiting wind power for the electricity
	increased coal	[NASA-TT-F-16058] JOHNES, G. L.
production [PB-240613/0]	07 p0157 N75-26525	Chemically active fluid-bed premoval during gasification
ACOBSON, D. L. Performance of a laser mirror !	heat pine	phase .2 [PB-240632/0]
[ASE PAPER 74-WA/HT-61]	05 p0018 A75-16869	JOHNSON, A. L., JR.
[ASHE PAPER 74-WA/HT-61] An intercell heat pipe for fuel cooling	05 p0018 A75-16869 1 cell and battery	JOHNSON, A. L., JR. Fuel production /biomass energy
[ASHE PAPER 74-WA/HT-61] An intercell heat pipe for fuel	05 p0018 A75-16869 L cell and battery 05 p0027 B75-11226	JOHNSON, A. L., JR.
	SURVEY [PB-240154/5] [SAKSBM, L. Electric power systems analysis [PB-239236/3] [SHIDA, M. Application of thermodynamic arenergy-balance calculations in processes [SHIMARA, A. Superconducting synchronous made of the synchro	Hethane emission from U.S. Coal mines in 1973, a survey Survey (PB-240154/5) 07 p0152 N75-25354 (SANSER, L. Electric power systems analysis research (PB-239236/3) 07 p0143 N75-24139 (SHIDM, R. Application of thermodynamic and material- and energy-balance calculations to gasification processes 06 p0055 A75-24785 (SHIHARA, A. Superconducting synchronous machine 06 p0061 A75-27967 (SIRBA, R. J. Energy storage for utilities via hydrogen systems 05 p0005 A75-10537 (On the role of hydrogen in electric energy storage (BBL-19266) (SBRH, R. J. Energy storage for utilities via hydrogen systems 06 p0178 A75-44797 (BBL-19266) (SBRH, R. Energy problems - Solar energy and manure gas 05 p0020 A75-17024 (UDITSKII, V. D. Empirical method of designing the current-voltage characteristics for the discharge mode of a thermionic converter 06 p0057 A75-26332 (URKEVICH, I. R. 06 p0057 A75-26332 (URKEVICH, I. R. 06 p0057 A75-26332 (UNICKEVICH, I. R. 06 p0057 A75-16864 (UNICKEVICH, I. R. 06 p0057 A75-16864 (UNICKEVICH, I. R. 06 p0057 A75-16864 (UNICKEVICH, II. R. 06 p0058 A75-24129 A

ale pyrolyses from product gases 05 p0034 #75-13399 on alternative 07 p0137 N75-23391 rol in fossil fuel uefaction: Section 2. 08 p0212 N75-32627 iable pitch vertical 06 p0063 A75-28604 06 p0058 175-27520 erating systems 08 p0190 125-45981 ric power generation 05 p0013 A75-12990 rol in fossil fuel ification. Section 1: 08 p0204 N75-29596 density in the density ___ ak reactor 07 p0124 A75-37836 power plants 08 p0169 A75-40688 nd power 08 p0193 175-46024 age peaking power plant 05 p0018 A75-16880 Developing a plan of crisis in California 06 p0082 N75-17822 07 p0161 N75-27578 power generation and 06 p0053 A75-24243 static-feed water 08 p0177 A75-44776 e future 08 p0195 175-47495 oal mines in 1973, a 07 p0152 N75-25354 umption of gas turbines 06 p0063 A75-28650 anagement 07 p0149 H75-25300 e production of 05 p0033 N75-13385 process for sulphur n of heavy fuel oil, 07 p0159 N75-27556 07 p0111 A75-31275 chnology in the

06 p0079 N75-17197

JOHNSON, G. R. Dynamic simulation for performance solar heated and cooled building: [ASME PAPER 74-WA/SOL-8] SIMSHAC - A simulation program for and cooling of buildings	s 05 p0019 A75-16891	JUNGHAMS, R. C. Marine pollution monitoring (petr Proceedings of a Symposium and the Mational Bureau of Standard [COM-75-50071/0] JUNISSON, J.	Workshop held at
	06 p0061 A75-28093	Principles and applications of se	elective solar
JOHNSON, J. E. The economics of liquid hydrogen s	upply for air	coatings	08 p0181 A75-45511
An economic perspective on hydrogen		JUST, J. Hational energy flow accounts [PB-239275/1]	07 p0146 N75-24539
JOHNSON, J. H.	08 p0176 A75-44769	An analysis of constraints on inc production	
	ergy conservation 08 p0194 A75-46042	JUSTUS, C. G.	. 07 p0157 N75-26525
JOENSON, R. E. Potential structural material prob: hydrogen energy system	lems in a	Benefit-cost methodology study wi application of the use of wind [NASA-CR-134864]	
	07 p0154 N75-26500	JUTTEMANN, H. Heat pumps in large buildings	-
Puel cells: Direct conversion of a energy into electricity	electrochemical	[OA-TRANS-939] JUVINALL, G. L.	06 p0078 175-17184
	06 p0103 #75-20869	A novel negative-limited sealed n	ickel-cadmium cell 05 p0008 A75-10571
Radiation cooling of structures with transparent wind screens	th infrared	K	•
-	08 p0167 A75-39407		•
JOHNSON, W. Plans and status of the NASA-Lewis	Research Center	KADOMTSEY, B. Han-made sun. Thermonuclear engi	neering
wind energy project	08 p0197 A75-47802	developments [BLL-M-23333-(5828.4F)]	•
Plans and status of the NASA-Levis		KAGAB, M. B.	
wind energy project [NASA-TM-X-71701] JOHES, A. T.	07 p0128 ¥75-21795	Dependence of the basic parameter Al/x/Ga/1-x/As-GaAs solar conve- temperature and optical intensi	rters on
Survey of hydrogen compatibility pr		· ·	07 p0112 A75-32824
energy storage and energy transmi		KAHLE, A. B. The detection of geothermal areas	from Skylab
[SAND-74-8219] JONES, B.	06 p0087 N75-18726	thermal data [NASA-CR-143133]	07 p0158 N75-27540
Can hydrogen transmission replace of	electricity 08 p0165 A75-38863	KAHN, H. A study of energy systems command	-
Will hydrogen transmission replace		communication for energy crisis [PB-239290/0]	
JOBES, R. L. Materials requirements for advanced	i energy	RAHH, J. S. AEC in situ oil shale program	
systems: New fuels. Volume 3: research needs in advanced energy	Materials	[UCID-16520] KAJIKAWA, T.	06 p0068 N75-16090
new fuels [AD-A004550]	07 p0158 N75-27168	Studies on improvement of the cha MHD power generating channel	racteristics of
JONKE, A. A. Reduction of atmospheric pollution	hy the	[REPT-749] KAKABABY, A.	07 p0148 N75-25293
application of fluidized-bed comb	oustion 06 p0072 N75-16151	Pilot solar air-conditioning plan its use	t and results of
JORDAH, J. P.	-		07 p0111 A75-31512
Development of very low cost solar terrestrial power generation	cells for 06 p0052 A75-24226	Statistical relation between heat closed area and meteorological the use of a solar refrigeratin	parameters during g plant
JORDAN, R. C. Solar energy powered systems - Hist	ory and current	KALAPATI, D. D. Thermodynamics of liquid metal MR	08 p0169 A75-41072
	08 p0168 A75-40298	[AD-A007415]	07 p0144 N75-24141
Proceedings of the Solar Thermal Co [PB-239277/7] JOSKOW, P. L.	nversion workshop 17 p0145 N75-24157	Evaluation of pollution control in conversion processess. Gasific	n fossil fuel
Interfuel substitution in the consu		Synthane process [PB-237113/6]	06 p0095 N75-19879
energy in the United States. Par Residential and commercial sector [PB-234536/1]	: 95 p0040 N75-15178	Evaluation of pollution control i conversion processes. Liquefac	n fossil fuel
	17 p0143 N75-24140	COED process [PB-240371/5]	07 p0162 N75-27626
The future of the US nuclear energy [PB-242164/2]	/ industry 18 p0214 N75-33511	RALHAMMER, F. R. Potential for large-scale energy	storage in
JOUBERT, J. I. Conceptual design and economics of	an MHD pilot	electric utility systems [ASME PAPER 74-WA/ENER-9]	05 p0016 A75-16840
plant	8 p0189 A75-45974	Atlantic outer continental shelf	energy resources:
JOUROLHON, L. Power shortage contingency program	-	An economic analysis [COM-75-10330/9]	07 p0152 N75-26484
Northwest. Legislative, regulato institutional aspects	ry and .	KAMBUSKII, V. T. Utilization of tubular thermoelec	•
JURNIGEN, H.	8 p0211 N75-32601	solar generators	05 p0020 A75-17067
The production of gaseous energy ca fossil fuels		Determination of the temperature of tubular thermoelectric module	
- 0	6 p0049 175-23502		05 p0020 A75-17068

PERSONAL AUTHOR INDEX KEODZHISV, B.,

KAMIUS, B. H.		KELLER, G. V.	
Hawaii geothermal project	06 p0099 875-20840	Bew technology challenges in exploremental in exploration and environmental in	
RAHINSKY, F. C.	•	geothermal systems	
A planning methodology for the and	alysis and design		06 p0060 175-27788
of wind-power systems	05 p0004 A75-10517	The Colorado School of Hines Hevada	1 geothermal study 16 p0099 N75-20837
KAMIYA, B.	-	KRLLER, W. B.	_
Water-splitting system synthesized photochemical and thermoelectric		Nuclear propulsion technology trans	sfer to energy
solar energy	C UCITIZACIONO OI		05 p0001 A75-10264
	08 p0190 A75-45994	Energy storage for the electric por	
KANT, P. H. Peasibility study of alternative:	fuels for	[LA-UR-74-918] (KELH, S.	05 p _. 0031 N75-12447
automotive transportation. Volu		Reflector-absorber systems for sola	r thermionic
summary [PB-235581/6]	05 m0001 N75-15197	converters	\6 =0400 W76=20070
Peasibility study of alternative :	05 p0041 N75-15187 fuels for	[BSRC-TT-123] (06 p0104 N75-20878
automotive transportation. Volu		Data monitoring and information ava	ailability - A
section [PB-235582/4]	05 p0041 N75-15188	key to solar energy utilization	08 p0169 A75-40618
Feasibility study of alternative		RBMP, C. C.	70 P0103 270 10010
automotive transportation. Vol:		The energy plantation	17 m0120 N7E-20402
[PB-235583/2] Rffects of changing the proportion	05 p0041 N75-15189 ns of automotive	KEHAHAH, C. B.	07 p0139 N75-24103
distillate and gasoline produce		Bureau of Mines research programs of	
refining [PB-236900/7]	06 p0085 N75-18443	<pre>disposal of mineral, metal, and e wastes</pre>	energy-based
KANTER, A.	or broom and house		5 p0042 N75-15203
Solids emission from power station [BLL-CE-TRANS-6524-(9022.09)]		KENHEDY, D.	
KAPLAN, G. H.	07 p0 137 g73-20320	Alternative strategies for optimize supply, distribution, and consum	
Liquid-metal binary cycles for sta		Naval bases. Volume 3: Assessme	ent of total
[NASA-TH-D-7955] KAPLAN, B. S.	08 p0205 N75-30649	energy system applications at Nav [AD-A003590] (val facilities 08 p0202 N75-29550
Bureau of Mines research programs	on recycling and	KRNT, G.	-
disposal of mineral, metal, and	energy-based	Glass-Si heterojunction solar cells [PB-239282/7]	
wastes [PB-227476/9]	05 p0042 N75-15203	KERHODE, R. L.	07 p0145 N75-24156
KAPPELMEYER, O.		Synthetic oil from coal	
Geothermics with special reference	e to application 05 p0011 A75-11576	[PB-234460/4] KERN, J.)5 p0040 N75-15176
KAPUR, V.	-	On the optimum tilt of a solar coll	
Research and development of low contegrated solar arrays	ost processes for	KERR, R. L.	7 p0115 A75-33971
[PB-239760/2]	07 p0156 N75-26519	Advances in space power generation	
MARAKI, S.		[IAF PAPER 74-086] KERR, W.	05 p0015 A75-13718
Utilization of solar energy today	05 p0012 A75-12987	Aqueous homogeneous reactor for hyd	rogen production
KARBINIKOV, D.	annonai on		08 p0175 A75-44761
Results of work on thermoemission [AD-A002655]	07 p0131 N75-22114	RESSLER, R. Recent MHD generator testing at Avo	o Everett
KASPER, H. H.		Research Laboratory, Inc	
Efficient CuInSe2/CdS solar cells	07 p0119 A75-36274	[ASME PAPER 74-WA/ENER-7] MHD power generation (Viking Series	05 p0016 A75-16839 3) with
KATELL, S.	-	hydrocarbon fuels, part 3	•
An economic analysis of oil shale		[AD-A004216] C REULKS, G. W.	7 p0155 N75-26502
featuring gas combustion retort: [PB-237851/1]	06 p0093 N75-19813	Proceedings of the Workshop on Need	ls for
KATSANIS, T.		Pundamental Research in Catalysis	as Related to
Aerodynamic design of a free power 75 KW gas turbine automotive end		the Energy Problem [PB-236683/9]	6 p0078 N75-17006
	07 p0140 N75-24106	KHAIDAROV, P.	-
Evaluation of coal conversion production	seeses to provide	GaP p-n junctions and possibilities application in the conversion of	
clean fuels, part 1	cesses to provide	into electric	Bordr energy
[PB-234202/0]	05 p0025 N75-10600		5 p0011 A75-12198
Evaluation of coal conversion proc clean fuels, part 2	cesses to browing	RHANDURDYERV, A. Pilot solar air-conditioning plant	and results of
[PB-234203/8]	05 p0025 N75-10604	its use	
REDDY, E. S. Process environment effects on hea	+ pines for	KHARITOHOV, V. P.	7 p0111 A75-31512
fluid-bed gasification of coal	re pipes for	Standardized wind electric power un	it
[LA-UR-74-984]	05 p0029 N75-12252		5 p0025 N75-10598
Two-stage methane production from	solid wastes	KHATAMOV, S. C. Determination of some thermophysica	1
[ASHE PAPER 74-WA/ENER-11]	05 p0017 A75-16842	characteristics of a solar-type p	ebble accumulator
RESTON, S. C. Survey of hydrogen compatibility p	problems in	U Determination of some thermophysica	7 p0116 A75-34317
energy storage and energy transi		pebble-type solar heat accumulato	rs
applications	06 n0097 ¥75-19726		8 p0170 A75-41530
[SAND-74-8219] KELLER, C.	06 p0087 N75-18726	KHODZHIEV, M. Theoretical determination of the te	mperature in a
Hydrogen production from decomposi	ltion of water by	solar water heater /steady state/	· -
means of nuclear reactor heat	08 p0175 A75-44760	Theoretical research on the operati	7 p0112 A75-31513 on of a solar
	•	water heater and comparison with	experimental data
		0	7 p0112 A75-31515

KHOIRYSB, G. A. Improving the oil storage system of western Siberia [AD-A002717] 06 p0092 M75-19705	RIRCHHOFF, R. H. Hot side heat exchanger for an ocean thermal difference power plant
KHOKHLOV, L. K. Investigation of characteristics of magnetohydrodynamic generators in industrial	05 p0004 A75-10527 Hot water hydraulics of the Gulf Stream sited OTGH [PB-242151/9] 08 p0213 B75-33502
power plants [AD-A008343] 07 p0149 H75-25307 KHOZHIEV, A. KH.	STRGIZBREV, D. A. Study of energy distribution in the field of concentration of a solar power plant with a
Method for calculating solar radiation for semicylindrical collectors 06 p0057 175-26718	hyperboloid counterreflector 05 p0010 A75-11195 Energy distribution in the concentration field of
KHUDENKO, A. A. Study of channel-type systems for solar-energy radiative heat transport	a solar installation with a hyperboloidal counter-reflector 06 p0049 A75-23407
05 p0010 175-11196 A study of channel systems for radiative solar-heat transfer	Energy distribution in the concentration field of a two-mirror device with a paraboloidal back reflector
06 p0049 A75-23408 KIDDER, B. E.	07 p0122 A75-37157 KIRILLIN, V. A.
Laser compression of matter - Optical power and energy requirements	Prospects for magnetohydrodynamic electric power plants in power engineering
06 p0046 A75-22352 KILKBARY, R.	06 p0081 H75-17791
The energy crisis and decision making in the family [PB-238783/5] 06 p0106 M75-21028 KILLIAM, H. J.	The generator of the future [AD-A001515] 06 p0089 N75-18754 KIRPICH, A.
Solar cell and array standardization for Mir Force spacecraft	Solar heating and cooling of Army buildings 08 p0184 A75-45926
05 p0002 A75-10486 Solar energy for earth: An AIAA assessment 07 p0110 A75-31267	KIRSTEH, C. C. Solar powered pump [NASA-CASE-NPO-13567-1] 07 p0133 N75-22746
KIB, A. G. Bethane in the Pittsburgh coalbed, Washington County, Pennsylvania	KISPERT, R. G. Urban waste energy resources [AIAA PAPER 75-632] 06 p0062 A75-28598
[PB-237848/7] 06 p0089 N75-18760 Low-temperature evolution of hydrocarbon gases from coal	Fuel gas production from solid waste [PB-238068/1] 06 p0095 H75-19843 KISSEL, G.
[PB-238322/2] 07 p0139 B75-24074 KINCANNON, B. Waste automotive lubricating oil reuse as a fuel	Hydrogen production by water electrolysis - Hethods for approaching ideal efficiencies 08 p0193 A75-46023
[PB-241357/3] 08 p0204 H75-30331 KINDAHL, B. B.	Cylindrical erbium oxide radiator structures for
Evaluation of fixed bed, low BTU coal gasification systems for retrofitting power plants	thermophotovoltaic generators [AD-4001525] 07 p0129 N75-21806
[PB-241672/5] 08 p0211 H75-32602 KINDLE, B. C. Interdisciplinary study of atmospheric processes	RIVEL, B. Progress in development of auxiliary HHD power plant components at Avco Everett Research
and constituents of the mid-Atlantic coastal region. Attachment 3: Data set for Craney Island oil refinery installation experiment	Laboratory, Inc [ASME PAPER 74-WA/EMER-6] 05 p0016 A75-16838 KLEIE, B.
[NASA-CR-142823] 07 p0141 H75-24121 Interdisciplinary study of atmospheric processes	Wickel-hydrogen secondary battery 08 p0191 A75-45997
and constituents of the mid-Atlantic coastal region. Attachment 4: Data set for background investigation of atmospheric constituents for	KLEIN, S. A. A method of simulation of solar processes and its application
Nansemond River site [NASA-CR-142821] 07 p0141 N75-24122	07 p0109 A75-29474 Calculation of flat-plate collector loss
KING, A. H. Haterials and the new dimensions of conflict,	coefficients 07 p0109 A75-29480
revised version [AD-A004263] 07 p0154 #75-26499	REPRIS, J. Recent BHD generator testing at Avco Everett
KING, J. M. Study of fuel cell powerplant with heat recovery	Research Laboratory, Inc [ASHE PAPER 74-WA/EBER-7] 05 p0016 A75-16839
[MASA-CR-141854] 07 p0148 #75-25296 KING, J. H., JR. Energy storage for utilities via hydrogen systems	KLEPPE, J. Production of oil from fractured reservoirs by water displacement
05 p0005 A75-10537 Application of fuel cells with heat recovery for	07 p0127 B75-21716 KLEPPER, R.
integrated utility systems 08 p0187 A75-45949	The effect of recent energy price increases on field crop production costs
Energy storage for utilities via hydrogen systems [BBL-19266] 06 p0086 H75-18725	[PB-238659/7] 06 p0107 F75-21155 KLETTE, I. J.
KIEG, T. A. A large mechanical contracting corporation solar heats its own offices	Various research tasks related to energy information and data activities: Task 4 priorities analysis
08 p0184 A75-45924	[PB-240424/2] 07 p0151 H75-25329 KLINE, B.
Wiled, W. G. Nuclear heat source for cryogenic refrigerators in space	Overcoming two significant hurdles to space power generation Transportation and assembly
08 p0191 a75-46006 EXETIGH, J. K. Concepts for central solar electric power generation	[AIAA PAPER 75-641] 06 p0063 A75-28601 KLISHCHARVA, 0. Pilot solar air-conditioning plant and results of
05 p0021 a75-17504 КІРРЕННАН, С. J.	its use 07 p0111 A75-31512
Hydrogen-energy storage for electrical utility systems	

08 p0178 A75-44798

KHIGHT, J. A.

Parametric study for a pyrolytic system for production of fuels from agricultural and forestry wastes 08 p0187 A75-45950 KNIP, G. Preliminary study of advanced turbofans for low energy consumption [HASA-TH-X-71663] 06 p0084 N75-06 p0084 N75-18241 KNOBLOCH, P. C. Regional impacts of alternative energy allocation strategies [PB-241125/4] 08 p0205 N75-30667 Master plan for REIS implementation [PB-241126/2] 08 08 p0205 N75-30945 Design considerations for a comprehensive regional energy information system [PB-241123/9] 08 p0206 N75-30946 RECVIES, B. C. Hydrocarbon power fuel from the gasoline boiling range [NASA-TT-F-16399] 07 p0147 N75-24957 KOPSKRY, H. G. Aerodynamic design of a free power turbine for a 75 KW gas turbine automotive engine [HASA-TH-X-71714] 07 p0140 H75-24106 Prospects of photosynthetic energy production 06 p0060 A75-27792 Proceedings of the Workshop on Bio-Solar Conversion [PB-236142/6] 06 p0069 N75-160

ROKLIUEV, G. A.

Effect of heat transfer from the lateral surfaces 06 p0069 N75-16096 of semiconductor thermocouples on the energy characteristics of a thermoelectric generator 05 p0021 A75-18798 KOLESAR, P. Geophysical, geochemical, and geological investigations of the Dunes geothermal system, Imperial Valley, California [IGPP-UCR-74-31] 06 p0098 N75-20836 KOLESHIKOV, V. K.
Possible development of acoustical instability in a system consisting of a combustion chamber and a subsonic MHD generator 06 p0045 A75-19959 KOLSTAD, G. A. Recommended research program in geothermal chemistry
[WASH-1344] 06 p0077 N75-16997 [WASH-1344] KOMEYA, K.
Aluminum nitride and silicon nitride for high-temperature vehicular gas turbine engines 05 p0011 A75-11362 Hydrogen production by electrolysis - Present and future 08 p0193 A75-46022 KOROPLEY, A. Empirical method of designing the current-voltage characteristics for the discharge mode of a thermionic converter 06 p0057 A75-26332 KONOVALOV, B. Wind and solar power engineering [AP-786844] 05 p0039 N75-15168 KORIAGIPA, G. H. Investigation of the optimal MHD-generator characteristics for combinational open-cycle MHD power generators 07 p0119 A75-36260 ROPOLEVA, B. S.
Dependence of the basic parameters of
Al/x/Ga/1-x/As-GaAs solar converters on hl/x/Ga/1-x/As-Gaas solar collective temperature and optical intensity 07 p0112 A75-32824 KONTCIUSKI, P. P. Hydrogen for the subsonic transport 08 p0178 A75-44791 EOSTEO, S. B.

An investigation of heat-pipe wick characteristics 05 p0012 A75-12914 KOTTELO, G. E.
Optimization of parameters of permeable
thermoelectric generators
07 no: 07 p0110 175-30487
Thermal diagrams of thermoelectrical devices
[10-7874201 [AD-787420] 07 p0135 N75-22911

ECTZ, R.

Demand for scientific and technical manpower in inductries: United States energy-related industries: United States [PB-240865] 08 p0201 N75-28964 KOVARÍK, H. Optimal solar energy collector system 07 p0115 A75-33970 KOVBASIUK, V. I.
Investigation of the optimal MHD-generator characteristics for combinational open-cycle MHD power generators 07 p0119 A75-36260 KOVBASYUK, V. I.
Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17792 KOWSZUN, Z Chemically active fluid-bed process for sulphur removal during gasification of heavy fuel oil, phase 2 [PB-240632/0] 07 p0159 N75-27556 KOYAHÀ, S. Survey on power fluid for thermal power from low temperature and small temperature difference heat source KOZIAK, W. W. NAME WAS NOT THE PROPERTY OF A 08 p0179 A75-44800 KOZLOV, V. B.
Thermodynamics of liquid metal MHD converters [AD-A007415] 07 p0144 N75-24141 KRAATZ, R.

Gasification of solid wastes in fixed beds
[ASME PAPER 74-WA/PWR-10] 05 p0018 05 p0018 A75-16882 KRAFT, G. A.
Preliminary study of advanced turboprops for low energy consumption [NASA-TM-X-71740] 07 p0146 N75-24739 RRAJESKI, E.
An analysis of constraints on increased coal production [PB-240613/0] 07 p0157 N75-26525 KRAMER, M. P. Industrial energy study of the Industrial chemicals group [PB-236322/4] 06 p0071 \$75-16111 Data base for the industrial energy study of the industrial chemicals group [PB-237845/3] 06 p0087 N75-18732 KRAMPITE, L. O. Proceedings of the Workshop on Bio-Solar Conversion [PB-236142/6] 06 p0069 #75-1609 06 p0069 N75-16096 RRAH, A.
High-speed silicon processing for low cost solar cells - A comparative analysis 06 p0052 A75-24222 KRAUSS, O. P. Energy utilization by households and technology assessment as a way to increase its effectiveness 06 p0097 N75-20829 KRAVCHENKO, A. P.
Devices based on thermoelectrical phenomena 05 p0026 #75-10836 [AD-783821] KREIDER, J. P.
Thermal performance analysis of the stationary reflector/tracking absorber /SRTA/ solar concentrator [ASME PAPER 75-HT-FFF] 08 p0173 175-43881 RREITH, P.
Stationary concentrating reflector cum tracking absorber solar energy collector - Optical design 07 p0120 A75-36307 Evaluation of focusing solar energy collectors 08 p0168 a75-40300 KRESSEL. B. Bpitaxial silicon solar cell 06 p0056 A75-25086 RRIEBEL, C. Solar sea power [PB-235469/4] 05 p0038 N75-14284

11.

Solar sea power [PB-236997/3] ERIEVE, W.	06 p0082 H75-17821	RULITEV, I. P. Prospects for utilization of chambers in development of	marime oil deposits
Study on electrofluid dynamic po [AD-A004762] REIKORIAN, O. B.	wer generation 07 p0155 H75-26507	RUBER, J. P. Idaho geothermal R and D proj	05 p0029 #75-1160 ect report for period
Thermochemical hydrogen producti Lawrence Livermore Laboratory	on research at	16 December 1973 + 15 March [ANCR-1155]	1974 06 p0076 B75-1698 !
ERIKUBOV, G. W.	08 p0177 A75-44780	KUO, S. C. Solar farms utilizing low-pre	essure closed-cycle
The influence of the petrology of coals on their methane contents		gas turbines	05 p0003 A75-1051
[BLL-MTS-9309] Krishwaw, C. K.	07 p0158 H75-27511	RUBBAROV, N. Pilot solar air-conditioning	-
Numerical simulation of direct e	nergy conversion 06 p0045 A75-19660	its use	07 p0111 A75-3151
RRISHWAM, B. A regional energy information sy		KURISHKO, V. A. Computation of water temperat	-
Minnesota: A preliminary desi [PB-241124/7]	90 08 p0205 #75-30944	geothermal well	08 p0170 A75-4154
RROKHIN, C. N. Laser thermonuclear fusion	05 . 0440 . 55 . 3048	RORPIT, S. S. 1.5 and 3KW indirect methanol	-air fuel cell power
EROKOSEY, E.	07 p0112 A75-32617	plants	08 p0186 A75-4594
Solar sea power [PB-236997/3]	06 p0082 #75-17821	RORVIH, C. W. Remote platform power conserv	
ERTS-C (Landsat 3) cryogenic heat	t pipe experiment	[WASA-CASE-GSC-11182-1] KURYLKO, L.	05 p0032 #75-1300
definition [HASA-CR-143797] EROPP, E.	07 p0138 H75-23882	Hydrogen as a fuel [AD-787484] KUSHHIREHKO, K. P.	06 p0066 N75-15818
Assessment of the potential of clearry technology	lean fuels and	A short handbook on fuels [AD-A004358]	07 p0158 B75-27170
	07 p0162 H75-27583	KUSUDA, T. Method of testing for rating	
The MSF/RANN FY 1975 program for resources research and technological resources research resources re		based on thermal performanc [COM-75-10276/4]	
Geothermal reservoir engineering	06 p0098 N75-20833	KUWADA, J. T. The Harysville, Hontana Geoth	<u> </u>
Stimulation and reservoir engine	06 p0101 N75-20853	ROZNISZKINA, T.	06 p0100 H75-20849
geothermal resources [PB-239718/0]	07 p0153 N75-26485	A direct voltage converter wi [NASA-TT-P-16174]	thout transformer 07 p0133 N75-22584
RRYLOV, G. I. Effectiveness of using chemically	-		•
Bedia in a solar gas-turbine in		LACKEY, B. B.	
RUBB, W. R. Technology and use of lignite		Design study for a coal-fuele turbine system for MIUS app	
[PB-238666/2] KURNUR, R. B.	07 p0142 N75-24131	LADY, E. R.	08 p0187 A75-45948
Intermediate-term energy programs against crude-petroleum import Peasible alternatives, program	interruptions:	Evaluation of coal conversion clean fuels, part 1 [PB-234202/0]	05 p0025 N75-10600
operational methods of funding	06 p0083 875-17826	Evaluation of coal conversion clean fuels, part 2.	
RUGELER, K. Bydrogen as energy carrier in ind	00 \$0000 8/3 1/020		Parameter of Parameter
	ustry and household	[PB-234203/8]	05 p0025 N75-10604
Nuclear district-heating and nucl	06 p0049 A75-23505		05 p0025 H75-10604
•	06 p0049 A75-23505	[PB-234203/8] LAGER, D. L. Three-dimensional subsurface of novel method for determining electrical profile [UCRL-51685]	05 p0025 H75-10604
Buclear district-heating and nucl	06 p0049 A75-23505 lear long-distance 06 p0093 B75-19828	[PB-234203/8] LAGER, D. L. Three-dimensional subsurface of novel method for determining electrical profile [UCRL-51685] LAHODA, B. J. Development of a soluble reactions.	05 p0025 m75-10604 delineation via a g the subsurface 07 p0127 m75-21781
Buclear district-heating and nucle energy [JUL-1077] EUGBLER, B. Buclear district-heating and nucle energy [JUL-1077]	06 p0049 A75-23505 lear long-distance 06 p0093 B75-19828	[PB-234203/8] LAGER, D. L. Three-dimensional subsurface of novel method for determining electrical profile [UCRL-51685] LAHODA, B. J. Development of a soluble react secondary battery	05 p0025 m75-10604 delineation via a g the subsurface 07 p0127 m75-21781
Buclear district-heating and nucl energy [JUL-1077] EUGELER, B. Buclear district-heating and nucl energy	06 p0049 A75-23505 Lear long-distance 06 p0093 B75-19828 Lear long-distance 06 p0093 B75-19828	[PB-234203/8] LAGER, D. L. Three-dimensional subsurface of novel method for determining electrical profile (UCRL-51685) LAHODA, R. J. Development of a soluble react secondary battery LAHRE, T. Compilation of air pollutant of	05 p0025 #75-10604 delineation via a g the subsurface 07 p0127 #75-21781 tants and products 07 p0127 #75-21790 emission factors,
Buclear district-heating and nucle energy [JUL-1077] EUGELER, B. Buclear district-heating and nucle energy [JUL-1077] EUGL-1077] EUGL-1078 EUGL-1079	06 p0049 A75-23505 Lear long-distance 06 p0093 B75-19828 Lear long-distance 06 p0093 B75-19828 Propulsion 06 p0050 A75-23509	[PB-234203/8] LAGER, D. L. Three-dimensional subsurface of novel method for determining electrical profile [UCBL-51685] LAHODA, B. J. Development of a soluble react secondary battery LAHRE, T. Compilation of air pollutant of second edition, supplement if [PB-235736/6]	05 p0025 #75-10604 delineation via a g the subsurface 07 p0127 #75-21781 tants and products 07 p0127 #75-21790 emission factors,
Buclear district-heating and nucle energy [JUL-1077] EUGBLER, B. Buclear district-heating and nucle energy [JUL-1077] EUHLBANN, P. The Stirling engine for vehicle parts of the stirling of office building all-electric supply. Part 1:	06 p0049 A75-23505 Lear long-distance 06 p0093 B75-19828 Lear long-distance 06 p0093 B75-19828 Dropulsion 06 p0050 A75-23509 Lngs with	[PB-234203/8] LAGER, D. L. Three-dimensional subsurface of novel method for determining electrical profile [UCRL-51685] LAHODA, B. J. Development of a soluble react secondary battery LAHRE, T. Compilation of air pollutant of second edition, supplement if	05 p0025 #75-10604 delineation via a g the subsurface 07 p0127 #75-21781 tants and products 07 p0127 #75-21790 emission factors, 10. 3 06 p0073 #75-16152
Buclear district-heating and nucle energy [JUL-1077] EUGBLER, B. Buclear district-heating and nucle energy [JUL-1077] EUHLBABB, P. The Stirling engine for vehicle processes and the stirling engine for veh	06 p0049 A75-23505 lear long-distance 06 p0093 B75-19828 lear long-distance 06 p0093 B75-19828 propulsion 06 p0050 A75-23509 lngs with Technical 06 p0074 B75-16970	[PB-234203/8] LAGER, D. L. Three-dimensional subsurface of novel method for determining electrical profile [UCRL-51685] LHODA, B. J. Development of a soluble react secondary battery LAHRR, T. Compilation of air pollutant of second edition, supplement of [PB-235736/6] LAI, S. Glass-Si heterojunction solar (PB-239282/7] LHBB, P. G. An analysis of the potential of the second edition of the potential of t	05 p0025 #75-10604 delineation via a g the subsurface
Buclear district-heating and nucle energy [JUL-1077] KUGELER, B. Buclear district-heating and nucle energy [JUL-1077] KUHLBANN, P. The Stirling engine for vehicle pairs and conditioning of office building all-electric supply. Part 1: conception [OA-TRANS-938-PT-1] KUKUTA, IU. P. Concerning the use of a nitrogenmixture for protection of HHD-9	06 p0049 A75-23505 Lear long-distance 06 p0093 B75-19828 Lear long-distance 06 p0093 B75-19828 Propulsion 06 p0050 A75-23509 Propulsion 06 p0074 B75-16970 Protassium gaseous	[PB-234203/8] LAGER, D. L. Three-dimensional subsurface of novel method for determining electrical profile [UCRL-51685] LHODA, R. J. Development of a soluble react secondary battery LAHRE, T. Compilation of air pollutant of second edition, supplement in [PB-235736/6] LAI, S. Glass-Si heterojunction solar (PB-239282/7) LAMB, P. G.	05 p0025 #75-10604 delineation via a g the subsurface
Buclear district-heating and nucle energy [JUL-1077] KUGELER, H. Buclear district-heating and nucle energy [JUL-1077] KUHLBABB, P. The Stirling engine for vehicle production of office building all-electric supply. Part 1: conception [OA-TRABS-938-PT-1] KUKOTA, IU. P. Concerning the use of a nitrogenaixture for protection of HHD-gelectrodes by suction KULLAGIB, A. I.	06 p0049 A75-23505 lear long-distance 06 p0093 B75-19828 lear long-distance 06 p0093 B75-19828 bropulsion 06 p0050 A75-23509 lear long-distance 06 p0074 B75-16970 potassium gaseous lenerator 07 p0112 A75-31569	[PB-234203/8] LAGER, D. L. Three-dimensional subsurface of novel method for determining electrical profile [UCRL-51685] LHODA, R. J. Development of a soluble react secondary battery LAHRE, T. Compilation of air pollutant second edition, supplement in [PB-235736/6] LAI, S. Glass-Si heterojunction solar (PB-239282/7) LAMB, P. G. An analysis of the potential in power demand within daily longer demand within daily lo	05 p0025 #75-10604 delineation via a g the subsurface 07 p0127 #75-21781 tants and products 07 p0127 #75-21790 emission factors, 10. 3 06 p0073 #75-16152 cells 07 p0145 #75-24156 for shifting electric and requirement 07 p0156 #75-26517
Buclear district-heating and nuclenergy [JUL-1077] EUGBLER, B. Buclear district-heating and nuclenergy [JUL-1077] EUBLER, B. The Stirling engine for vehicle parts of the stirling of office building all-electric supply. Part 1: conception [OA-TRABS-938-PT-1] EUKOTA, IU. P. Concerning the use of a nitrogenary of the struck of the supply of the supply.	06 p0049 A75-23505 Lear long-distance 06 p0093 B75-19828 Lear long-distance 06 p0093 B75-19828 Dropulsion 06 p0050 A75-23509 Lear long-distance 06 p0074 B75-16970 Lear long-distance 07 p0112 A75-31569 Ligh-voltage Levels	[PB-234203/8] LAGER, D. L. Three-dimensional subsurface of novel method for determining electrical profile [UCRL-51685] LAHODA, B. J. Development of a soluble react secondary battery LAHRE, T. Compilation of air pollutant of second edition, supplement if [PB-235736/6] LAI, S. Glass-Si heterojunction solar [PB-239282/7] LAHB, P. G. An analysis of the potential if power demand within daily longer than the power demand within daily longer performance and concentrators LAHBERCK, J. R.	05 p0025 #75-10604 delineation via a g the subsurface
Buclear district-heating and nucle energy [JUL-1077] KUGELER, B. Buclear district-heating and nucle energy [JUL-1077] KUHLBABB, P. The Stirling engine for vehicle parts of the stirling engine for parts of the stirling engine for protection of the stirling electrodes by suction KULAGIS, A. I. Pull-scale tests of 'photovolt' he photocells at high light flux length.	06 p0049 A75-23505 Lear long-distance 06 p0093 B75-19828 Lear long-distance 06 p0093 B75-19828 Dropulsion 06 p0050 A75-23509 Lings with Technical 06 p0074 B75-16970 Potassium gaseous Lenerator 07 p0112 A75-31569 Ligh-voltage Levels 07 p0122 A75-37162 Le photocells of	[PB-234203/8] LAGER, D. L. Three-dimensional subsurface of novel method for determining electrical profile [UCRL-51685] LHODA, E. J. Development of a soluble react secondary battery LHER, T. Compilation of air pollutant of second edition, supplement of [PB-235736/6] LAI, S. Glass-Si heterojunction solar [PB-23928/7] LHBB, P. G. An analysis of the potential of power demand within daily log [PB-239764/4] LHBERO, G. F. Parametric performance and concentrators LARBECK, J. B. Advances in the theory and appropriational subsurfaces in the theory and appropriation solar concentrators	05 p0025 #75-10604 delineation via a g the subsurface
Buclear district-heating and nucle energy [JUL-1077] KUGELER, B. Buclear district-heating and nucle energy [JUL-1077] KUHLBANN, P. The Stirling engine for vehicle paints and conditioning of office building all-electric supply. Part 1: conception [OA-TRANS-938-PT-1] KUKUTA, IU. P. Concerning the use of a nitrogenmixture for protection of HHD-gelectrodes by suction KULAGIN, A. I. Full-scale tests of 'photovolt' he photocells at high light flux.	06 p0049 A75-23505 Lear long-distance 06 p0093 B75-19828 Lear long-distance 06 p0093 B75-19828 Dropulsion 06 p0050 A75-23509 Lings with Technical 06 p0074 B75-16970 Potassium gaseous Lenerator 07 p0112 A75-31569 Ligh-voltage Levels 07 p0122 A75-37162 Le photocells of	[PB-234203/8] LAGER, D. L. Three-dimensional subsurface of novel method for determining electrical profile [UCRL-51685] LAHODA, B. J. Development of a soluble react secondary battery LAHRE, T. Compilation of air pollutant of second edition, supplement if [PB-235736/6] LAI, S. Glass-Si heterojunction solar [PB-239282/7] LAHB, P. G. An analysis of the potential if power demand within daily longer than the power demand within daily longer performance and concentrators LAHBERCK, J. R.	05 p0025 #75-10604 delineation via a g the subsurface

LAMDSHAW, A. P.	
Temperature dependence of the spec characteristics of quick-respons photocells	
Investigation of photoelectric con	07 p0119 A75-36013
under conditions of strong illus Full-scale tests of 'photovolt' hi	07 p0119 A75-36015
photocells at high light flux le	
Operation of photoconverters under strong illumination	
Full-scale testing of high-voltage fotovolt type at elevated light	photocells of flux levels
LANGLEY, R. A. Hydrogen distribution profiling	08 p0210 N75-32590
	08 p0179 A75-44805
LAMEFORD, J. A practical model law for chemical fracture of oil shale	explosive
LAQUER, E. L.	06 p0078 H75-17023
Superconducting magnetic energy st [LM-UR-74-737]	orage 05 p0032 ¥75-12814
Lightons, G. B. Surface electronic properties and	the search for
new hydrogen oxidation catalysts	
LARSON, D. H.	-
Study of industrial uses of energy environmental effects	relative to
[PB-237215/9]	06 p0084 N75-17853
INVESTIGATION of the technology an	d performance of
lithium doped solar cells	06 p0052 A75-24219
LASKIE, J. B.	• • • • • • • • • • • • • • • • • • • •
Electrolytic hydrogen generators	08 p0176 A75-44774
LATHAM, T. S. Applications of plasma core reactor	rs to
terrestrial energy systems [AIAA PAPER 74-1074]	05 p0010 A75-11281
LAU, K. H.	-
Steady state free convection in an geothermal reservoir	unconfined
LAVE, L. B.	05 p0009 A75-11069
Mineral resources and the environm	
to section 3: Report of panel o implications of mineral producti	
and the environment [PB-239582/0]	07 p0153 N75-26489
LAVI, A.	
Solar sea power [PB-235469/4]	05 p0038 B75-14284
Solar sea power [PB-236997/3]	06 p0082 #75-17821
LAVIGHA, T. A. The ATS-6 power system - An optimi	end design for
maximum power source utilization	
LAWRENCE, L. R., JR.	08 p0192 A75-46017
Combustion dynamics research for ' Independence'	Project
[AIAA PAPER 74-1069]	05 p0001 A75-10262
LATERICE, R. A. Performance of heat pumps using co	ld-side energy
storage and unconventional heat [ASER PAPER 74-WA/HT-17]	
LAWSON, H. O.	
Report on progress in achieving di of a major fraction of sonic flo	w kinetic power
into electrical power by electro /BFD/ processes	fluid dynamic
	05 p0009 A75-10576
LATTON, J. P. Space power systems - Retrospect a	nd prospect
[IAF PAPER 74-082]	05 p0014 A75-13714

Bvaluation of the overall fuel mass penalty of an

07 p0121 A75-36720

aircraft system

```
LEBEDEVA, V. V.
Design study of the energy characteristics of
thereionic electric power generating components
and assemblies
06 p0064 775-28
                                                        06 p0064 175-28893
  LECETENBERG, H. J.
       Solvent stimulation tests in two California
         oilfields
         [ PB-237849/5]
                                                        06 p0090 #75-18761
  LEE, C. P.
  Dynamic response of solar heat storage systems
[ASHE PAPER 74-WA/HT-22] 05 p0018 A75-16867
LBE, D. O.
      The Solar Community - Energy for residential heating, cooling, and electrical power
      06 p0059 A75-27785
Axial temperature differential analysis of linear
         focused collectors for solar power [SLA-74-5078] 05
      [SLA-74-5078] 05 p0036 #75-14268
Sizing of focused solar collector fields with
specified collector tube inlet temperature
[SLA-74-5288] 06 p0094 #75-19832
       Engineering and cost study of air pollution
control for the petrochemical industry, volume
3: Ethylene dichloride manufacture by
          oxychlorination
         [PB-240492]
                                                        07 p0162 #75-27612
  LEE, J. D.
      Interesting possibilities of fusion-fission [BNWL-SA-5069] 06 p0096
                                                        06 p0096 #75-20106
      Radioisotope space power generator [GA-A-12848]
                                                        05 p0038 #75-14832
      Time factors in slowing down the rate of growth of
demand for primary energy in the United States
                                                        06 p0059 175-27780
  LEGGETT, N. E.
Industrial energy study of the Industrial
      chemicals group
[PB-236322/4]
Data base for the industrial energy study of the
industrial chemicals group
                                                        06 p0071 175-16111
          [PB-237845/3]
                                                        06 p0087 #75-18732
  LEGORE, R. S.
The effect of Alaskan crude oil and selected
         hydrocarbon compounds on embryonic development
         of the Pacific oyster, Crassostrea gigas
06 p0090 #75-18764
LEHRFELD, D.

The rate limiting processes for the sorption of hydrogen in LaNi5

08 p0194 A75--
                                                        08 p0194 A75-46036
  LRILICH. R. H.
      Industrial energy studies of ground freight
         transportation, volume 1
                                                        06 p0069 #75-16099
         [PB-236016/2]
      Industrial energy studies of ground freight
transportation. Volume 2: Appendices
         [PB-236017/0]
                                                        06 p0069 N75-16100
  LEE.
        P. H.
      Bnergy required to develop power in the United
                                                        05 p0032 #75-13378
  LEBARD, M.
      Transportation energy conservation: A program plan of policy-oriented research [PB-240734/4] 08 p0200 #75
                                                        08 p0200 #75-28528
  LEGNARD, J. A.
Solar total energy program
[SAND-74-0208]
                                                        06 p0081 #75-17810
 LEGMARD, R. J.
Where the hoilers are: A survey of electric
utility boilers with potential capacity for
burning solid waste as fuel
         [PB-239392/4]
                                                        07 p0143 #75-24135
  LERNER, R. S.
      Sources and methods for methanol production
                                                        08 p0180 A75-44816
  Remote sensing applied to mine subsidence
        Experience in Pennsylvania and the Hidwest 07 p0121 175-36809
      Liquid hydrogen as a fuel for future connercial
         aircraft
                                                        08 p0178 A75-44792
```

LEVERTAL, G. B.	LINDSAY, M. A.
Some developments of industrial	A simulation model of the development of petroleum refining capacity
magnetohydrodynamic electric power plants 06 p0081 H75-177	92 [AD-A003723] 07 p0161 #75-27569
Puel as an agricultural crop	Experience in the first step of the mastery of the
08 p0 172 A75-425	33 U-25 device 06 p0081 #75-177 93
Interdisciplinary study of atmospheric processes	LIENBBAN, D. G.
and constituents of the mid-Atlantic coastal	Bureau of Mines research programs on recycling and
region. Attachment 3: Data set for Craney	disposal of mineral, metal, and energy-based wastes
Island oil refinery installation experiment [NASA-CR-142823] 07 p0141 N75-241	
Interdisciplinary study of atmospheric processes	LINVILLE, B.
and constituents of the mid-Atlantic coastal	Bureau of Mines energy program, 1973
region. Attachment 4: Data set for background investigation of atmospheric constituents for	[PB-234682/3]. 05 p0040 N75-15172 LIOR, N.
Nansemond River site	Solar heat pump comfort heating systems
[NASA-CR-142821] 07 p0141 N75-241	
LEWIS, G. S., JB. Combustion dynamics research for 'Project	Interim standard for solar collectors, first draft [PB-239757/8] 07 p0150 m75-25313
Independence'	Conservation and better utilization of electric
[AIAA PAPER 74-1069] 05 p0001 A75-102	
Energy storage for utilities via hydrogen systems	solar heating. Solar collector performance studies
05 p0005 A75-105	
Energy storage for utilities via hydrogen systems	Solar collector performance studies
[BNL-19266] 06 p0086 N75-187	25 [PB-239758/6] 07 p0156 #75-26520 LISIN, A. S.
LIBOWITZ, G. G. Metal hydrides for thermal energy storage	Dynamic method for calculating the series
05 p0004 A75-105	
Photochemical conversion of solar energy	converter 06 p0057 A75-26713
[PB-236266/3] 05 p0037 N75-142	
Photochemical conversion of solar energy	photoconverter series resistance
[PB-235474/4] 05 p0038 N75-142	82 07 p0122 A75-37164 LISSANAN, P. B. S.
Photochemical conversion of solar energy [PB-235503/0] 06 p0070 H75-161	
Photochemical conversion of solar energy	[PB-238595/3] 07 p0133 H75-22669
[PB-238533/4] 07 p0143 N75-241	
Prospects and scientific problems of the	Various research tasks related to energy ; information and data activities: Task 4
utilization of methods of direct electric power	priorities analysis
generation from chemical fuels /fuel cells/	[PB-240424/2] 07 p0151 p75-25329
05 p0012 A75-129	11 LITTLE, R. L. Various research tasks related to energy
Transportation energy conservation: A program	information and data activities. Task 2
plan of policy-oriented research	national energy indexing schemes:
[PB-240734/4] 08 p0200 N75-285 LIEB, J. G.	28 Characterization of problem [PB-240423/4] 07 p0152 N75-25774
A comparative analysis of the energy consumption	LITTHAN, B.
for several urban passenger ground	Electrochemical power sources
transportation systems [PB-238041/8] 06 p0107 N75-211	[AD-A001610] 06 p0094 H75-19836 60 LIU, S. G.
LIEBERHAN, A. R.	Silicon solar cells for highly concentrated sunlight
A 10% efficient economic RTG design 05 p0003 A75-105	07 p0120 A75-36363
LIEBHAN, J. C.	06 LIUBASHRVSKAIA, T. L. Dependence of the basic parameters of
Biological conversion of organic refuse to methane	Al/x/Ga/1-x/As-GaAs solar converters on
[PB-235468/6] 05 p0041 N75-151 LIEW, J. C.	83 temperature and optical intensity 07 p0112 A75-32824
An Al p-silicon MOS photovoltaic cell	LIVELY, C. P., JR.
08 p0173 A75-434	
LIEVAHO, R. J. Economic modeling and energy policy planning	/BSOP/ developed for Modular Integrated Utility Systems /MIUS/ analysis
06 p0079 N75-172	
LIMAYE, D. R.	LLOYD, H. J.
An econometric analysis of fuel selection for power generation	Space power application of the all purpose mini-Brayton rotating unit /mini-BRU/
· 06 p0055 A75-247	
LIEDAEL, D.	10, H. P.
The prospects for gasoline availability: 1974 [GPO-34-969] 05 p0039 N75-151	Time factors in slowing down the rate of growth of demand for primary energy in the United States
Energy policy and resource management	06 p0059 A75-27780
[GPO-33-634] 07 p0 149 B75-253	
The role for Federal R and D on alternative	Optimization of parameters of permeable thermoelectric generators
automotive power systems	07 p0110 A75-30487
[PB-238771/0] 07 p0137 N75-233	
LINDQUIST, P. D. HHD energy conversion for high power electrical	The effect of recent energy price increases on field crop production costs
needs	[PB-238659/7] 06 p0107 #75-21155
07 p0124 A75-376	57 LORP, G. O. G. Utilization of solar energy today
methods of energy transfer from a magnetic energy	05 p0012 a75-12987
storage system using a transfer capacitor and a	Parametric performance and cost models for solar
superconducting switch [L1-5631-HS] 05 p0032 H75-131	concentrators 07 p0109 175-29476
•	group arm

PERSONAL AUTHOR INDEX MACKLIS, S. L.

LOBHRKE, R. I. Measurements of the performance of electrohydrodynamic heat pipe [AIAA PAPER 75-659]	f an 07 p0114 A75-32917	LUCHIBSKII, V. V. Laboratory semiautomatic infrared of determining the composition of poproducts in sewage	etroleum
LORSCH, H. R. Photovoltaic power generation; Pr International Conference, Hambu		LUBCKEL, W. J. The FCG-1 fuel cell powerplant for	07 p0125 A75-38648 electric
September 25-27, 1974	06 p0051 A75-24213	utility use	05 p0013 A75-12992
LOF, G. O. G. Design and construction of a resi heating and cocling system	dential solar	LUFT, W. Radiation effects on high efficience cells	cy silicon-solar
	07 p0109 A75-29472	•	06 p0051 A75-24197
Design and construction of a resi- heating and cooling system [PB-237042/7]	dential solar . 06 p0082 N75-17823	Progress in heat pipe and porous he technology	eat exchanger
LOFGREN, B. R. Heasuring ground movement in geot	hormal arose of		06 p0045 A75-20686
Imperial Valley, California		Evaluation of an ion exchange membra	cane fuel cell
LOGOTERTI, T. J.	06 p0099 N75-20842		05 p0037 N75-14274
The use of hydrogen in commercial assessment	aircraft - An	LUKES, T. Research on the application of sola	ir energy to the
LOHRBHZ, J.	05 p0006 A75-10542	food drying industry [PB-238073/1]	06 p0105 N75-20888
Relationships between bidding and production of the Pederal Outer		LUKSHA, B. A novel negative-limited sealed nice	
Shelf (through 1970) [PB-238188/7]	07 p0127 N75-21788	LUMDBERG, A. W.	05 p0008 A75-10571
LORMANHEKIN, M. Assessment of the Rankine cycle f	•	A comparison of methods for electric generation from geothermal hot we	
application to solar powered co [PB-238069/9]			05 p0016 A75-16841
LORMANHERIN, H. Assessment of Rankine cycle for p	otential	NASA thermionic converter research program	and technology
application to solar-powered co [ASME PAPER 74-WA/SOL-7]			08 p0188 A75-45956
LONDON, A. L.	•	A detailed analysis of the hydridia	ıg
Geothermal reservoir engineering	research 06 p0101 N75-20853	characteristics of LaWi5	08 p0194 A75-46038
LONG, W. W. The initiatives of the Los Alamos	Scientific	LUTWICK, R. Assessment of the technology require	red to develop
Laboratory in the transfer of a technology	new excavation	photovoltaic power system for lam national energy applications	rge scale
LOBTAL, L.	06 p0079 N75-17203	LYBCH, F. E.	06 p0080 ¥75-17785
HHD power generation (Viking Seri hydrocarbon fuels, part 3 [AD-A004216]	es) with 07 p0155 N75-26502	Backfire control techniques for hyd internal combustion engines	lrogen-fueled 08 p0178 A75-44789
LORANS, D.		A detailed analysis of the hydriding	
Development of a flexible, fold-o	06 p0053 A75-24252		08 p0194 A75-46038
LOBCH, H. G. Latent heat and sensible heat stocheating systems	rage for solar	LYON, R. W. Recommended research program in geo [WASH-1344]	othermal chemistry 06 p0077 N75-16997
[PB-236190/5] LOBENSEN, L. E.	06 p0077 N75-17005	LYTLE, J. K.	-
Materials screening program for t	he LLL geothermal	Development of the KIVA-I HHD open (7 p0124 A75-37686
[UCRL-75353] LORSCH, H. G.	06 p0082 N75-17815	Three-dimensional subsurface deline	
Thermal energy storage devices su	itable for solar	novel method for determining the electrical profile	
heating	05 p0007 A75-10553	[UCRL-51685]	7 p0127 N75-21781
Solar heat pump comfort heating s	ystems 08 p0185 A75-45936	` M	
LOTKER, M. Hydrogen for the electric utiliti	-	MALSS, K. Methanol/air acidic fuel cell syste	
possibilities	05 p0005 A75-10536	MACAVOY, P. W.	05 p0008 A75-10566
The Hydrogen Economy - A utility	perspective 05 p0014 A75-12998	The economics of the natural gas sh - (1960-1980)	ortage
Hydrogen economy: A utility pers	pective 06 p0103 N75-20870	[PB-242166/7] BACDIARHID, A. G.	08 p0214 N75-33932
LOVELL, H. L. The relation of coal characterist		Research and development of low cos integrated solar arrays	t processes for
liquefaction behavior [PB-239261/1]	07 p0151 N75-25327		7 p0156 #75-26519
LOWI, A.		Method of calibrating a solar power	plant with a
Solar thermal absorption heat pum coefficient of performance			7 p0116 a75-34315
[ASHE PAPER 74-WA/ENER-2] LU, P. W. T. HEATOGOR Production by water close	05 p0015 A75-16834	Blectric power for space satellites	
Hydrogen production by water elec- methods for approaching ideal e		[HASA-TH-X-66808] BACKLIS, S. L. An integrated solar heated and cool	97 p0137 m75-23678 ed mobile home
LUCCI, A. B. Application of rocket engine tech	14		8 p0184 175-45927
approacton of focket engine tech	08 p0185 A75-45933		
-		•	

MACKOVCIAK, J. J. R. Peasibility study of a satellite solar power station	MAKI, W. R. Regional impacts of alternative energy allocation
[NASA-CR-2357] 07 p0138 N75-23683	strategies
HACLEBBAN, C.	[PB-241125/4] 08 p0205 875-30667
Tidal power and its integration into the electric	MALES, R. H.
system 05 p0013 175-12994	Energy crisis - Fact or fiction 05 p0011 A75-12115
MACRAKIS, M. C.	MALLORY, W. W.
A study of energy systems command, control and	Mineral resources and the environment. Appendix
communication for energy crisis management	to section 2: Report of panel on estimation of
[PB-239290/0] 07 p0136 R75-22927 HADAEV, V. V.	mineral reserves and resources [PB-239581/2] 07 p0153 N75-26488
A technique for calibrating photometric curves	MANALIS, M. S.
obtained in solar concentrator tests	Airborne windmills - Energy source for
08 p0180 A75-45060	communication aerostats [AIAA PAPER 75-923] 08 p0165 A75-38868
Rating aircraft on energy	HANDRIKORN, J.
05 p0015 A75-14346	Advances in the theory and application of BSF cells
MADOR, B. J.	07 p0123 A75-37402
Coal-gas combustion in industrial gas turbines [AIAA PAPER 74-1114] 05 p0010 A75-11286	A process for cleaning and removal of sulfur
MARDA, H.	compounds from low Btu gases
Production of hydrogen from water using nuclear	[PB-236522/9] 06 p0065 N75-15768
energy. A review	NAMPRIM, M. P.
[JARRI-M-5642] 06 p0093 N75-19824	Solar energy conversion by water photodissociation
MAGEE, E. H. Evaluation of pollution control in fossil fuel	08 p0173 A75-43510 MANGARELLA, P. A.
conversion processess. Gasification, section 1:	An analysis of the fluid motion into the condenser
Synthane process	intake of a 400 mW(e) ocean thermal difference
[PB-237113/6] 06 p0095 N75-19879	power plant 08 p0213 N75-33508.
Evaluation of pollution control in fossil fuel conversion processes. Liquefaction, section 1:	[PB-242569/2] 08 p0213 875-33508. HANHEIMER-TIMNAT, Y.
COED process	Thrust vector control by magnetic field
[PB-240371/5] 07 p0162 N75-27626	[IAP PAPER 75-027] 08 p0183 A75-45822
Evaluation of pollution control in fossil fuel conversion processes: Gasification. Section 1:	MANISCALCO, J. A. Advanced concepts in fusion-fission hybrid reactors
CO2 acceptor process	[UCRL-75835] 07 p0131 H75-22113
[PB-241141/1] 08 p0204 N75-29596	MANN, D. B.
MAGRE, R. S.	A survey of LNG technological needs in the USA:
Hydrogen as a fuel 06 p0066 H75-15818	1974 to beyond 2000 05 p0030 N75-12435
Hydrogen as a fuel	MARBE, A. S.
[AD-A006984] 07 p0132 N75-22477	Hydrogen - Mechanisms and strategies of market
HAGEB, W.	penetration 08 p0180 175-44811
Proceedings of 5th annual symposium: Energy Research and Development	HAR, H. Y. B.
[AD-A007799] 07 p0144 N75-24142	Principles and applications of selective solar
MAGILL, J. B.	coatings
An interdisciplinary engineering approach to a facility design study with emphasis on energy	08 p0181 A75-45511 MARBURY, F.
conservation. Volume 2: Main report text	Ploating vs flying - A propulsion energy comparison
[AD-A006804] 07 p0142 N75-24129	06 p0056 A75-25987
An interdisciplinary engineering approach to a	At-sea testing of a high seas oil recovery system
facility design study with emphasis on energy conservation. Volume 1: Executive summary	[AD-A006938] 07 p0136 N75-22953
[AD-A006803] 07 p0149 N75-25304	MARCHETTI, C.
An interdisciplinary engineering approach to a	The use of hydrogen as an energy carrier
facility design study with emphasis on energy conservation. Vclume 3: Appendices	05 p0015 A75-15795 Hydrogen - Mechanisms and strategies of market
[AD-A006805] 07 p0149 N75-25305	penetration
MAGNUS, R. L.	08 p0180 A75-44811
Solar energy projects of the Federal Government [PB-241620/4] 08 p0208 N75-31582	MARCUS, B. D. Ames Heat Pipe Experiment (AHPE) experiment
[PB-241620/4] 08 p0208 H75-31582 MAGNUSON, K.	description document
Manportable thermoelectric generator	[NASA-CR-114413] 07 p0138 N75-23880
[AD-A002042] 06 p0095 N75-19847	MARIANO, R. S.
MAIABI, L. Problems in electric power production	The study of priorities in the electrical energy allocation problem
[ISS-T-73/16] 07 p0128 N75-21793	[PB-239762/8] 07 p0156 N75-26516
MAIER, G.	MARIBESCU, M.
Interdisciplinary study of atmospheric processes	
and constituents of the mid-Atlantic coastal	High efficiency thermoelectric generator
region. Attachment 3: Data set for Cranev	High efficiency thermoelectric generator 05 p0014 A75-13067 HARKHAB, H. A.
region. Attachment 3: Data set for Craney Island oil refinery installation experiment	05 p0014 A75-13067 MARKHAH, M. A. Utilization of tubular thermoelectric modules in
Island oil refinery installation experiment [NASA-CR-142823] 07 p0141 N75-24121	MARKHAM, M. A. Utilization of tubular thermoelectric modules in solar generators
Island oil refinery installation experiment [NASA-CR-142823] Interdisciplinary study of atmospheric processes	MARKHAM, M. A. Utilization of tubular thermoelectric modules in solar generators 05 p0020 A75-17067
Island oil refinery installation experiment [NASA-CR-142823] 07 p0141 N75-24121	MARKHAM, M. A. Utilization of tubular thermoelectric modules in solar generators O5 p0020 A75-17067 Determination of the temperature field in a tubular thermoelectric module
Island oil refinery installation experiment [NASA-CR-142823] Interdisciplinary study of atmospheric processes and constituents of the mid-Atlantic coastal region. Attachment 4: Data set for background investigation of atmospheric constituents for	MARKHAM, M. A. Utilization of tubular thermoelectric modules in solar generators 05 p0020 A75-17067 Determination of the temperature field in a tubular thermoelectric module 05 p0020 A75-17068
Island oil refinery installation experiment [NASA-CR-142823] Interdisciplinary study of atmospheric processes and constituents of the mid-Atlantic coastal region. Attachment 4: Data set for background investigation of atmospheric constituents for Wansemond River site	MARKMAN, M. A. Utilization of tubular thermoelectric modules in solar generators 05 p0020 A75-17067 Determination of the temperature field in a tubular thermoelectric module MARKOVICE, F. J.
Island oil refinery installation experiment [NASA-CR-142823] O7 p0141 N75-24121 Interdisciplinary study of atmospheric processes and constituents of the mid-Atlantic coastal region. Attachment 4: Data set for background investigation of atmospheric constituents for Hansemond River site [NASA-CR-142821] O7 p0141 N75-24122	MARKHAM, M. A. Utilization of tubular thermoelectric modules in solar generators 05 p0020 A75-17067 Determination of the temperature field in a tubular thermoelectric module 05 p0020 A75-17068
Island oil refinery installation experiment [NASA-CR-142823] Interdisciplinary study of atmospheric processes and constituents of the mid-Atlantic coastal region. Attachment 4: Data set for background investigation of atmospheric constituents for Wansemond River site	MARKMAN, M. A. Utilization of tubular thermoelectric modules in solar generators 05 p0020 A75-17067 Determination of the temperature field in a tubular thermoelectric module 05 p0020 A75-17068 MARKOVICH, F. J. Impact of future use of electric cars in the Los Angeles region. Volume 3: Task reports on impact and usage analysis
Island oil refinery installation experiment [NASA-CR-142823] Interdisciplinary study of atmospheric processes and constituents of the mid-Atlantic coastal region. Attachment 4: Data set for background investigation of atmospheric constituents for Bansemond River site [NASA-CR-142821] O7 p0141 H75-24122 BAJUNDAR, D. P. Aqueous homogeneous reactor for hydrogen production 08 p0175 A75-44761	MARKHAN, H. A. Utilization of tubular thermoelectric modules in solar generators O5 p0020 A75-17067 Determination of the temperature field in a tubular thermoelectric module O5 p0020 A75-17068 MARKOVICH, F. J. Impact of future use of electric cars in the Los Angeles region. Volume 3: Task reports on impact and usage analysis [PB-238879/1] O7 p0131 N75-22201
Island oil refinery installation experiment [NASA-CR-142823] O7 p0141 N75-24121 Interdisciplinary study of atmospheric processes and constituents of the mid-Atlantic coastal region. Attachment 4: Data set for background investigation of atmospheric constituents for Hansemond River site [NASA-CR-142821] O7 p0141 N75-24122 HAJUMDAR, D. P. Aqueous homogeneous reactor for hydrogen production	MARKMAN, M. A. Utilization of tubular thermoelectric modules in solar generators 05 p0020 A75-17067 Determination of the temperature field in a tubular thermoelectric module 05 p0020 A75-17068 MARKOVICH, F. J. Impact of future use of electric cars in the Los Angeles region. Volume 3: Task reports on impact and usage analysis

05 p0020 A75-17084 -

IABSHALL, O. W. Independent energy systems for better efficiency 05 p0006 A75-10549	Comparative performance characteristics of cylindrical parabolic focusing and flat plate solar energy collectors
IARTIN, J. P. The HHD power generation system with directly	[COMP-741104-3] 06 p0103 B75-2087
fired coal	MAYNARD, O. B. The adaptation of free space power transmission
05 p0009 A75-10577	technology to the SSPS concept [AIAA PAPER 75-642] 06 p0063 A75-28602
Profitability analysis of producing crude oil by	Peasibility study of a satellite solar power station
<pre>waterflooding using a simulation technique [PB-237843/8]</pre>	[HASA-CR-2357] 07 p0138 N75-2368: HCALRVY, R. P., III
MARTIN, M. D.	Hydrogen as a fuel
Power from ocean waves [ASME PAPER 74-WA/PWR-5] 05 p0018 A75-16879	[AD-787484] 06 p0066 H75-15810 Hydrogen as a fuel
MARTINEZ, J. R.	[AD-A006984] 07 p0132 N75-2247
Impact of future use of electric cars in the Los Angeles region. Volume 3: Task reports on	Fuel-conservative engine technology
impact and usage analysis [PB-238879/1] 07 p0131 H75-22201	08 p0206 H75-31074
MARTINO, E. J.	Geothermal down well pumping system
Development of lithium/sulfur cells for application to electric automobiles	06 p0101 N75-2085
[CONF-740805-7] 06 p0094 N75-19829	Demand for scientific and technical manpower in energy-related industries: United States
Air transportation energy consumption - Yesterday, today, and tomorrow	1970-1985 [PB-240865] 08 p0201 N75-2896
[AIAA PAPER 75-319] 06 p0047 A75-22515	MCBRIDE, E.
Transportation vehicle energy intensities. A joint DOT/NASA reference paper	Dynamic conversion of solar generated heat to electricity
[NASA-TH-X-62404] 05 p0035 N75-13690	[HASA-CR-134724] 06 p0066 H75-16079
MASLAW, P. Geothermal energy as a resource in a hydrogen	HCCABRIA, J. L.
energy economy	A high-speed superconducting generator 06 p0060 A75-27960
08 p0174 A75-44755	MCCAHH, R. B.
Institutional and environmental problems in geothermal resource development	An assessment of the applicability of high voltage AC circuit breakers to inductive energy storage
06 p0100 N75-20843	08 p0206 N75-31341
MSON, R. H. Benefit-cost methodology study with example	Shale from oil shale economically
application of the use of wind generators	08 p0 168 A75-40 182
[NASA-CR-134864] 08 p0207 N75-31571	MCCLUBE, H. K. The hydrogen sulfide emissions abatement program
Utilization of wind energy	at the Geysers Geothermal Power Plant
07 p0110 A75-30891	06 p0102 N75-2085
Oil for the free world in the 1970's	Soil burial of radioisotopic fuel capsules
[AD-779352] 05 p0031 H75-12448	06 p0046 A75-21274 The Solar Community - Energy for residential
Cost competitiveness of a solar cell array power	heating, cooling, and electrical power
source for ATS-6 educational TV terminal [NASA-TM-X-71720] 07 p0140 N75-24110	06 p0059 A75-27785 Design analysis of asymmetric solar receivers '
IATHIAS, K. B.	[SAND-74-0124] 06 p0076 N75-16986
Preliminary results of geothermal desalting operations at the East Mesa test site Imperial	MCCUBDY, W. A. Pressurised fluidized bed combustion
Valley, California	[PB-236498/2] 06 p0065 N75-15769
06 p0101 H75-20850	MCDERNIT, J. H. Solar energy concentrator system for crystal
Technology and current practices for processing,	growth and zone refining in space
transferring and storing liquefied natural gas [PB-241048/8] 08 p0202 H75-29271	[NASA-CR-120623] 06 p0086 N75-18719 BCDONALD, C. F.
ATHUR, G. K.	Recuperator development trends for future high
Identification and characterization of the use of mixed conventional and waste fuels	temperature gas turbines [ASME PAPER 75-GT-50] 07 p0116 A75-34607
[PB-241821/8] 08 p0211 N75-32606	[ASME PAPER 75-GT-50] 07 p0116 A75-34607 Component design considerations for gas turbine
ATTHERS, H. B.	HTGR power plant
Geothermal down well pumping system 06 p0101 H75-20854	[ASME PAPER 75-GT-67] 07 p0116 A75-34620 MCDOHALD, P. R.
ATTOX, D. B.	The identification of gamma-valerolactone in waste
Solar-energy materials preparation techniques 08 p0181 A75-45513	from an oil-shale in situ retort [PB-240098/4] 07 p0147 N75-24852
ATUSBUICZ, A.	HCDOWALD, R. C.
A direct voltage converter without transformer [NASA-TT-F-16174] 07 p0133 N75-22584	Bio-conversion of water hyacinths into methane gas, part 1
AUTZ, C. W.	[NASA-TM-X-72725] 07 p0160 N75-27564
Radioisotope space power generator [GA-A-12848] 05 p0038 H75-14832	ECONOMIC and system aspects of a superconducting
AVLYUDOV, H. A.	magnetic energy storage device and a dc
Propulsion units for high speed ships [JPRS-64897] 07 p0148 N75-25295	superconducting transmission line [LA-UR-74-1145] 06 p0091 N75-19080
MY, S. C.	HCPRE, R. H.
Advanced heat transfer methods for geothermal power applications	Power collection reduction by mirror surface
08 p0185 A75-45934	nonflatness and tracking error for a central receiver solar power system
MIBB, B. B.	07 p0120 A75-36305
Comparative performance characteristics of cylindrical parabolic and flat plate solar	MCGRB, R. P. Solar energy program plan for heating and cooling
energy collectors	buildings
[ASME PAPER 74-WA/EMER-3] 05 p0016 A75-16835	[WASH-1337-5-DRAFT] 06 p0077 N75-16993

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MCGEOGH, H.		MEADER, M. D.	_
Lasers for fusion	08 p0166 A75-39333	Design and operation of a solar-p turbocompressor air-conditionin	
ECGOWAN, J. G.	00 po 100 k/3-33333	system	y and neating
Solar augmented home heating heat	pump system	-,2	08 p0186 A75-45939
	05 p0004 A75-10524	HEDIE, S. A.	
Hot side heat exchanger for an or	ean thermal	Effect of inhomogeneity of conduc	
difference power plant	05 p0004 £75-10527	effect in a sectional BBD gener	07 p0119 A75-36233
Ocean thermal power and windpower		BERCHAN, C. J.	o. po. 15 m. 5 cc235
Natural solar energy conversion		Technology application at Rockwel	l International,
impact on world energy markets	06 0060 - 75 07700		06 p0078 N75-17189
Gulf stream based ocean thermal	06 p0060 A75-27790	Optical interfaces in solar energ	v ntiligation
(AIAA PAPER 75-643)	06 p0063 A75-28603	opered intelluces in boid energ	07 p0123 A75-37331
Wind and solar thermal combination		Air-stable selective surfaces for	
heating		collectors	
Peasibility study of a 100 megawa	08 p0192 A75-46010	[PB-236196/2] Solar photothermal power conversi	06 p0071 #75-16116
ocean thermal difference power		bord proceduction power conversi	07 p0139 #75-24100
[PB-238571/4]	07 p0130 N75-21821	MEINBL, M. P.	
Variations in heat exchanger desi		Solar photothermal power conversi	
thermal difference power plants		#PIDEG900 1 1	07 p0139 N75-24100
[PB-238572/2] ECIETIRE, W. L.	07 p0143 N75-24134	RELEGITEV, L. A. Prospects for magnetohydrodynamic	electric power
An engine project engineer's view	of advanced	plants in power engineering	
secondary power systems		_	06 p0081 N75-17791
[SAE PAPER 740884]	05 p0019 A75-16925	MRLISS, M.	
SCINTOSH, R. The International Heat Pipe Exper	iment	Other primary energy resources	06 p0050 A75-23512
[AIAA PAPER 75-726]	07 p0113 A75-32870	MELTON, D. E.	00 p0030 E73 23312
Cryogenic heat pipe experiment -		Solar residential heating and coo	ling system
performance onboard a sounding		development test program	AT - A435 HT5 22002
[AIAA PAPER 75-729] BCKAY, R. A.	07 p0113 A75-32872	[NASA-TH-X-64924] HENARD, C. J.	07 p0135 N75-22903
Helical rotary screw expander pow	er system	A novel negative-limited sealed n	ickel-cadmium cell
•	06 p0101 N75-20856	•	05 p0008 A75-10571
HCKEB, H. B.	1.264	HENDERSHAUSEN, H.	
Heat pipe thermal control set poi	07 p0115 A75-33271	Protecting the US petroleum marke denials of imports	t against future
MCKELVEY, V. E.	07 PO 113 E/3 33271	[AD-A006643]	07 p0137 E75-23387
Solar energy in earth processes		HERCER, J. W., JR.	••
	06 p0061 a75-28437	Geothermal reservoir simulation	
Organic Pantine cycle silent nove	r nlant 1 5 kg	RPDUOPP R .T	06 p0101 N75-20852
Organic Rankine cycle silent powe	r plant 1.5 kW,	BERROFF, B. J. A study of energy systems command	
	r plant 1.5 kW, 06 p0088 N75-18745	MERROFF, B. J. A study of energy systems command communication for energy crisis	, control and
Organic Rankine cycle silent powe 28 volts dc [AD-A000900] ECEENNA, R. P.	06 p0088 N75-18745	A study of energy systems command communication for energy crisis [PB-239290/0]	, control and
Organic Rankine cycle silent powe 28 volts dc [AD-A000900] HCKEHNA, R. P. Demand for scientific and technic	06 p0088 N75-18745	A study of energy systems command communication for energy crisis [PB-239290/0] MERRIGAN, J. A.	, control and management 07 p0136 N75-22927
Organic Rankine cycle silent power 28 volts dc [AD-A000900] BCKENNA, R. P. Demand for scientific and technic energy-related industries: Uni	06 p0088 N75-18745	A study of energy systems command communication for energy crisis [PB-239290/0] HERRIGAB, J. A. Sunlight to electricity: Prospect	, control and management 07 p0136 B75-22927 s for solar
Organic Rankine cycle silent powe 28 volts dc [AD-A000900] HCKEHNA, R. P. Demand for scientific and technic	06 p0088 N75-18745	A study of energy systems command communication for energy crisis [PB-239290/0] MBRRIGAM, J. A. Sunlight to electricity: Prospect energy conversion by photovolta	, control and management 07 p0136 B75-22927 s for solar
Organic Rankine cycle silent powe 28 volts dc [AD-A000900] BCEBHA, R. P. Demand for scientific and technic energy-related industries: Uni 1970-1985 [PB-240865] BCLELLAB, A., IV	06 p0088 N75-18745 al manpower in ted States 08 p0201 N75-28964	A study of energy systems command communication for energy crisis [PB-239290/0] MERRIGAN, J. A. Sunlight to electricity: Prospect energy conversion by photovolta.	, control and management 07 p0136 M75-22927 s for solar ics
Organic Rankine cycle silent powe 28 volts dc [AD-A000900] BCEEBBA, R. P. Demand for scientific and technic energy-related industries: Uni 1970-1985 [PB-240865] BCLELLAB, A., IV Changes in the global energy bala	06 p0088 N75-18745 al manpower in ted States 08 p0201 N75-28964 nce	A study of energy systems command communication for energy crisis [PB-239290/0] HERRIGAN, J. A. Sunlight to electricity: Prospect energy conversion by photovolta. HERRILL, R. C. Char oil energy development	, control and management 07 p0136 M75-22927 s for solar ics 08 p0170 M75-41608
Organic Rankine cycle silent powe 28 volts dc [AD-A000900] MCKENEA, R. P. Demand for scientific and technic energy-related industries: Uni 1970-1985 [PB-240865] MCLELLAB, A., IV Changes in the global energy bala [PB-238075/6]	06 p0088 N75-18745 al manpower in ted States 08 p0201 N75-28964	A study of energy systems command communication for energy crisis [PB-239290/0] MERRIGAE, J. A. Sunlight to electricity: Prospect energy conversion by photovolta: MERRILL, B. C. Char oil energy development [PB-234018/0]	, control and management 07 p0136 M75-22927 s for solar ics
Organic Rankine cycle silent powe 28 volts dc [AD-A000900] BCKENNA, R. P. Demand for scientific and technic energy-related industries: Uni 1970-1985 [PB-240865] BCLELLAB, A. IV Changes in the global energy bala [PB-238075/6] BCHAIN, A. T. Hydrogen production with a high-technic and technic and technic and technic and technic and technical and t	06 p0088 N75-18745 al manpower in ted States 08 p0201 N75-28964 nce 06 p0106 N75-20936	A study of energy systems command communication for energy crisis [PB-239290/0] BERRIGAN, J. A. Sunlight to electricity: Prospect energy conversion by photovolta: BERRILL, R. C. Char oil energy development [PB-234018/0] BESSIMGER, B. Ocean thermal energy conversion s	, control and management 07 p0136 B75-22927 s for solar ics 08 p0170 B75-41608
Organic Rankine cycle silent powe 28 volts dc [AD-A000900] BCERHAA, R. P. Demand for scientific and technic energy-related industries: Uni 1970-1985 [PB-240865] BCLELLAB, A., IV Changes in the global energy bala [PB-238075/6] BCEMIN, A. T.	06 p0088 N75-18745 al manpower in ted States 08 p0201 N75-28964 nce 06 p0106 N75-20936 emperature	A study of energy systems command communication for energy crisis [PB-239290/0] MERRIGAH, J. A. Sunlight to electricity: Prospect energy conversion by photovolta. MERRILL, B. C. Char oil energy development [PB-234018/0] MESSIMGER, B. Ocean thermal energy conversion so [AIAA PAPER 75-616]	, control and management 07 p0136 B75-22927 s for solar ics 08 p0170 B75-41608
Organic Rankine cycle silent powe 28 volts dc [AD-A000900] BCERHA, R. P. Demand for scientific and technic energy-related industries: Uni 1970-1985 [PB-240865] BCLELLAB, A., IV Changes in the global energy bala [PB-238075/6] BCHAIN, A. T. Hydrogen production with a high-t gas-cooled reactor /HTGR/	06 p0088 N75-18745 al manpower in ted States 08 p0201 N75-28964 nce 06 p0106 N75-20936	A study of energy systems command communication for energy crisis [PB-239290/0] BERRIGAN, J. A. Sunlight to electricity: Prospect energy conversion by photovolta: BERRILL, B. C. Char oil energy development [PB-234018/0] BESSINGER, B. Ocean thermal energy conversion s [ATAA PAPER 75-616] BEULENBERG, A.	, control and management 07 p0136 B75-22927 s for solar ics 08 p0170 A75-41608 05 p0040 B75-15173 ystem evaluation 06 p0064 A75-29115
Organic Rankine cycle silent powe 28 volts dc [AD-A000900] BCKENNA, R. P. Demand for scientific and technic energy-related industries: Uni 1970-1985 [PB-240865] BCLELLAN, A., IV Changes in the global energy bala [PB-238075/6] BCHAIN, A. T. Hydrogen production with a high-t gas-cooled reactor /HTGR/ BCHICHAEL, P. C.	06 p0088 N75-18745 al manpower in ted States 08 p0201 N75-28964 nce 06 p0106 N75-20936 emperature	A study of energy systems command communication for energy crisis [PB-239290/0] HERRIGAN, J. A. Sunlight to electricity: Prospect energy conversion by photovolta: HERRILL, R. C. Char oil energy development [PB-234018/0] HESSINGER, B. Ocean thermal energy conversion s [AIAA PAPER 75-616] HEULENBERG, A. The COMSAT non-reflective silicon	, control and management 07 p0136 M75-22927 s for solar ics 08 p0170 M75-41608 05 p0040 M75-15173 ystem evaluation 06 p0064 M75-29115 solar cell - A
Organic Rankine cycle silent powe 28 volts dc [AD-A000900] BCERHA, R. P. Demand for scientific and technic energy-related industries: Uni 1970-1985 [PB-240865] BCLELLAB, A., IV Changes in the global energy bala [PB-238075/6] BCHAIN, A. T. Hydrogen production with a high-t gas-cooled reactor /HTGR/	06 p0088 N75-18745 al manpower in ted States 08 p0201 N75-28964 nce 06 p0106 N75-20936 emperature	A study of energy systems command communication for energy crisis [PB-239290/0] MERRIGAN, J. A. Sunlight to electricity: Prospect energy conversion by photovolta. MERRILL, B. C. Char oil energy development [PB-234018/0] MESSINGER, B. Ocean thermal energy conversion s [AITAN PAPER 75-616] MEULENBERG, A. The COMSAT non-reflective silicon second generation improved cell	, control and management 07 p0136 B75-22927 s for solar ics 08 p0170 A75-41608 05 p0040 B75-15173 ystem evaluation 06 p0064 A75-29115 solar cell - A 06 p0053 A75-24245
Organic Rankine cycle silent powe 28 volts dc [AD-A000900] BCEEHNA, R. P. Demand for scientific and technic energy-related industries: Uni 1970-1985 [PB-240865] BCLELLAB, A., IV Changes in the global energy bala [PB-238075/6] BCHAID, A. T. Hydrogen production with a high-t gas-cooled reactor /HTGR/ BCEICHAEL, F. C. Solar sea power [PB-235469/4] Solar sea power	06 p0088 N75-18745 al manpower in ted States 08 p0201 N75-28964 nce 06 p0106 N75-20936 emperature 08 p0175 N75-44759 05 p0038 N75-14284	A study of energy systems command communication for energy crisis [PB-239290/0] HERRIGAN, J. A. Sunlight to electricity: Prospect energy conversion by photovolta: HERRILL, R. C. Char oil energy development [PB-234018/0] HESSINGER, B. Ocean thermal energy conversion s [AIAM PAPER 75-616] HEULENBERG, A. The COMSAT non-reflective silicon second generation improved cell A comparison of the COMSAT violet	, control and management 07 p0136 B75-22927 s for solar ics 08 p0170 A75-41608 05 p0040 B75-15173 ystem evaluation 06 p0064 A75-29115 solar cell - A 06 p0053 A75-24245
Organic Rankine cycle silent powe 28 volts dc [AD-A000900] BCKEHNA, R. P. Demand for scientific and technic energy-related industries: Uni 1970-1985 [PB-240865] BCLELLAB, A., IV Changes in the global energy bala [PB-238075/6] BCHAII, A. T. Hydrogen production with a high-t gas-cooled reactor /HTGB/ BCEICHAEL, F. C. Solar sea power [PB-235469/4] Solar sea power [PB-236997/3]	06 p0088 N75-18745 al manpower in ted States 08 p0201 N75-28964 nce 06 p0106 N75-20936 emperature 08 p0175 N75-44759	A study of energy systems command communication for energy crisis [PB-239290/0] MERRIGAN, J. A. Sunlight to electricity: Prospect energy conversion by photovolta. MERRILL, B. C. Char oil energy development [PB-234018/0] MESSINGER, B. Ocean thermal energy conversion s [AITAN PAPER 75-616] MEULENBERG, A. The COMSAT non-reflective silicon second generation improved cell	, control and management 07 p0136 M75-22927 s for solar ics 08 p0170 M75-41608 05 p0040 M75-15173 ystem evaluation 06 p0064 M75-29115 solar cell - M 06 p0053 M75-24245 and
Organic Rankine cycle silent powe 28 volts dc [AD-A000900] BCERHAA, R. P. Demand for scientific and technic energy-related industries: Uni 1970-1985 [PB-240865] BCLELLAB, A., IV Changes in the global energy bala [PB-238075/6] BCHAIN, A. T. Hydrogen production with a high-t gas-cooled reactor /HTGB/ BCEICHAKL, F. C. Solar sea power [PB-235469/4] Solar sea power [PB-236997/3] BCHILLEB, b. F.	06 p0088 N75-18745 val manpower in ted States 08 p0201 N75-28964 nce 06 p0106 N75-20936 emperature 08 p0175 A75-44759 05 p0038 N75-14284 06 p0082 N75-17821	A study of energy systems command communication for energy crisis [PB-239290/0] MERRIGAM, J. A. Sunlight to electricity: Prospect energy conversion by photovolta: MERRILL, B. C. Char oil energy development [PB-234018/0] MESSINGER, B. Ocean thermal energy conversion s [ATAA PAPER 75-616] MEULEMBERG, A. The COMSAT non-reflective silicon second generation improved cell A comparison of the COMSAT violet non-reflective cells	, control and management 07 p0136 B75-22927 s for solar ics 08 p0170 A75-41608 05 p0040 B75-15173 ystem evaluation 06 p0064 A75-29115 solar cell - A 06 p0053 A75-24245
Organic Rankine cycle silent powe 28 volts dc [AD-A000900] BCEBHA, R. P. Demand for scientific and technic energy-related industries: Uni 1970-1985 [PB-240865] BCLELLAB, A., IV Changes in the global energy bala [PB-238075/6] BCHAIN, A. T. Hydrogen production with a high-t gas-cooled reactor /HTGB/ BCEICHAEL, F. C. Solar sea power [PB-235469/4] Solar sea power [PB-236997/3] BCEILLER, D. F. Pollution-free electrochemical pofrom low grade coal	06 p0088 N75-18745 all manpower in ted States 08 p0201 N75-28964 nce 06 p0106 N75-20936 emperature 08 p0175 N75-44759 05 p0038 N75-14284 06 p0082 N75-17821 wer generation	A study of energy systems command communication for energy crisis [PB-239290/0] HERRIGAN, J. A. Sunlight to electricity: Prospect energy conversion by photovolta: HERRILL, R. C. Char oil energy development [PB-234018/0] HESSINGER, B. Ocean thermal energy conversion s [AIAM PAPER 75-616] HEULENBERG, A. The COMSAT non-reflective silicon second generation improved cell A comparison of the COMSAT violet	, control and management 07 p0136 M75-22927 s for solar ics 08 p0170 M75-41608 05 p0040 M75-15173 ystem evaluation 06 p0064 M75-29115 solar cell - M 06 p0053 M75-24245 and 08 p0192 M75-46015 system, phase 2
Organic Rankine cycle silent powe 28 volts dc [AD-A000900] BCERHAA, R. P. Demand for scientific and technic energy-related industries: Uni 1970-1985 [PB-240865] BCLELLAB, A., IV Changes in the global energy bala [PB-238075/6] BCHAIL, A. T. Hydrogen production with a high-t gas-cooled reactor /HTGB/ BCEICHAEL, F. C. Solar sea power [PB-235469/4] Solar sea power [PB-236997/3] BCHILLEB, b. F. Pollution-free electrochemical po from low grade coal [PB-236162/4]	06 p0088 N75-18745 val manpower in ted States 08 p0201 N75-28964 nce 06 p0106 N75-20936 emperature 08 p0175 A75-44759 05 p0038 N75-14284 06 p0082 N75-17821	A study of energy systems command communication for energy crisis [PB-239290/0] MERRIGAM, J. A. Sunlight to electricity: Prospect energy conversion by photovolta: MERRILL, B. C. Char oil energy development [PB-234018/0] MESSINGER, B. Ocean thermal energy conversion s [ATAA PAPER 75-616] MEULEMBERG, A. The COMSAT non-reflective silicon second generation improved cell A comparison of the COMSAT violet non-reflective cells METER, A. P. Development of advanced fuel cell [MASA-CR-134721]	, control and management 07 p0136 B75-22927 s for solar ics 08 p0170 A75-41608 05 p0040 B75-15173 ystem evaluation 06 p0064 A75-29115 solar cell - A 06 p0053 A75-24245 and 08 p0192 A75-46015 system, phase 2 06 p0067 N75-16084
Organic Rankine cycle silent powe 28 volts dc [AD-A000900] BCKENNA, R. P. Demand for scientific and technic energy-related industries: Uni 1970-1985 [PB-240865] BCLELLAN, A., IV Changes in the global energy bala [PB-238075/6] BCHAIN, A. T. Hydrogen production with a high-t gas-cooled reactor /HTGR/ BCHICHAEL, P. C. Solar sea power [PB-235469/4] Solar sea power [PB-236997/3] BCHILLEN, D. P. Pollution-free electrochemical po from low grade coal [PB-236162/4] BCHUEN, B. D.	06 p0088 N75-18745 all manpower in ted States 08 p0201 N75-28964 nce 06 p0106 N75-20936 emperature 08 p0175 N75-44759 05 p0038 N75-14284 06 p0082 N75-17821 wer generation	A study of energy systems command communication for energy crisis [PB-239290/0] HERRIGAN, J. A. Sunlight to electricity: Prospect energy conversion by photovolta: HERRILL, R. C. Char oil energy development [PB-234018/0] HESSINGER, B. Ocean thermal energy conversion s [AIAM PAPER 75-616] HEULENBERG, A. The COMSAT non-reflective silicon second generation improved cell A comparison of the COMSAT violet non-reflective cells HEYER, A. P. Development of advanced fuel cell [NASA-CR-134721] Development of advanced fuel cell	, control and management 07 p0136 N75-22927 s for solar ics 08 p0170 N75-41608 05 p0040 N75-15173 ystem evaluation 06 p0064 N75-29115 solar cell - A 06 p0053 N75-24245 and 08 p0192 N75-46015 system, phase 2 06 p0067 N75-16084 system, phase 3
Organic Rankine cycle silent powe 28 volts dc [AD-A000900] BCEENNA, R. P. Demand for scientific and technic energy-related industries: Uni 1970-1985 [PB-240865] BCLELLAB, A., IV Changes in the global energy bala [PB-238075/6] BCHAIN, A. T. Hydrogen production with a high-t gas-cooled reactor /BTGR/ BCEICHAEL, F. C. Solar sea power [PB-235469/4] Solar sea power [PB-236997/3] BCHILLEN, b. F. Pollution-free electrochemical pofrom low grade coal [PB-236162/4] BCEUSE, B. D. Char oil energy development	06 p0088 N75-18745 all manpower in ted States 08 p0201 N75-28964 nce 06 p0106 N75-20936 emperature 08 p0175 N75-44759 05 p0038 N75-14284 06 p0082 N75-17821 wer generation 06 p0070 N75-16109	A study of energy systems command communication for energy crisis [PB-239290/0] MERRIGAM, J. A. Sunlight to electricity: Prospect energy conversion by photovolta: MERRILL, B. C. Char oil energy development [PB-234018/0] MESSINGER, B. Ocean thermal energy conversion s [ATAA PAPER 75-616] MEULEMBERG, A. The COMSAT non-reflective silicon second generation improved cell A comparison of the COMSAT violet non-reflective cells METER, A. P. Development of advanced fuel cell [MASA-CR-134721]	, control and management 07 p0136 B75-22927 s for solar ics 08 p0170 A75-41608 05 p0040 B75-15173 ystem evaluation 06 p0064 A75-29115 solar cell - A 06 p0053 A75-24245 and 08 p0192 A75-46015 system, phase 2 06 p0067 N75-16084
Organic Rankine cycle silent powe 28 volts dc [AD-A000900] BCKENNA, R. P. Demand for scientific and technic energy-related industries: Uni 1970-1985 [PB-240865] BCLELLAN, A., IV Changes in the global energy bala [PB-238075/6] BCHAIN, A. T. Hydrogen production with a high-t gas-cooled reactor /HTGR/ BCHICHAEL, P. C. Solar sea power [PB-235469/4] Solar sea power [PB-236997/3] BCHILLEN, D. P. Pollution-free electrochemical po from low grade coal [PB-236162/4] BCHUEN, B. D.	06 p0088 N75-18745 all manpower in ted States 08 p0201 N75-28964 nce 06 p0106 N75-20936 emperature 08 p0175 N75-44759 05 p0038 N75-14284 06 p0082 N75-17821 wer generation	A study of energy systems command communication for energy crisis [PB-239290/0] MERRIGAM, J. A. Sunlight to electricity: Prospect energy conversion by photovolta: MERRILL, R. C. Char oil energy development [PB-234018/0] MESSIMGER, B. Ocean thermal energy conversion s [AIAA PAPER 75-616] MEULEMBERG, A. The COMSAT non-reflective silicon second generation improved cell A comparison of the COMSAT violet non-reflective cells METER, A. P. Development of advanced fuel cell [MASA-CR-134721] Development of advanced fuel cell [MASA-CR-134818]	, control and management 07 p0136 B75-22927 s for solar ics 08 p0170 A75-41608 05 p0040 B75-15173 ystem evaluation 06 p0064 A75-29115 solar cell - A 06 p0053 A75-24245 and 08 p0192 A75-46015 system, phase 2 06 p0067 N75-16084 system, phase 3 07 p0154 N75-26496
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Organic Rankine cycle silent powe 28 volts dc [AD-A000900] BCRENNA, R. P. Demand for scientific and technic energy-related industries: Uni 1970-1985 [PB-240865] BCLELLAB, A., IV Changes in the global energy bala [PB-238075/6] BCHAIN, A. T. Hydrogen production with a high-t gas-cooled reactor /HTGR/ BCHICHAKL, F. C. Solar sea power [PB-235469/4] Solar sea power [PB-235469/4] Solar sea power [PB-236997/3] BCHILLER, b. F. Pollution-free electrochemical po from low grade coal [PB-236162/4] BCHUNN, B. D. Char oil energy development [PB-239765] BCPHERSON, B. Potential structural material pro hydrogen energy system [NASA-TH-X-71752] BCQUADR, F. B. The prospects of energy demand sc [PB-239763/6] BCSPADDEE, W. R. The Harysville, Bontana Geotherma	06 p0088 N75-18745 val manpower in ted States 08 p0201 N75-28964 nce 06 p0106 N75-20936 emperature 08 p0175 N75-44759 05 p0038 N75-14284 06 p0082 N75-17821 wer generation 06 p0070 N75-16109 05 p0040 N75-15173 subject to rate 07 p0163 N75-27964 blems in a 07 p0154 N75-26500 heduling 07 p0156 N75-26518 1 Project 06 p0100 N75-20849	A study of energy systems command communication for energy crisis [PB-23929/0] BERRIGAH, J. A. Sunlight to electricity: Prospect energy conversion by photovolta: BERRILL, R. C. Char oil energy development [PB-234018/0] BESSIMGER, B. Ocean thermal energy conversion s [AIAA PAPER 75-616] BEULEMBERG, A. The COMSAT non-reflective silicon second generation improved cell A comparison of the COMSAT violet non-reflective cells BEYER, A. P. Development of advanced fuel cell [NASA-CR-134721] Development of advanced fuel cell [NASA-CR-134818] BETER, R. T. Evaluation of advanced lift conce conservative short-haul aircraft [NASA-CR-137525] By aluation of advanced lift conce conservative short-haul aircraft [NASA-CR-137526] BICHAELS, R. J. Intermediate-term energy programs against crude-petroleum import Peasible alternatives, program operational methods of funding [PB-237209/2] BICHALKO, I. Phosphoric acid fuel cell stack de	management 07 p0136 M75-22927 s for solar ics 08 p0170 M75-41608 05 p0040 M75-15173 ystem evaluation 06 p0064 M75-29115 solar cell - M 06 p0053 M75-24245 and 08 p0192 M75-46015 system, phase 2 06 p0067 M75-16084 system, phase 3 07 p0154 M75-26496 pts and fuel t, volume 1 06 p0096 M75-20291 pts and fuel t, volume 2 06 p0097 M75-20292 to protect interruptions: costs, and 06 p0083 M75-17826 evelopment 08 p0186 M75-45943

MIKNIS, P. P. Pulsed nuclear magnetic resonance studies of oil shales--estimation of potential oil yields [PB-240023/2] 07 p0148 N75-25283 [PB-240023/2] MILLO, J. S. Bigh efficiency power conversion cycles using hydrogen compressed by absorption on metal **hydrides** 08 p0194 A75-46034 Hydrogen production by water electrolysis -Bethods for approaching ideal efficiencies 08 p0193 A75-46023 Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] 06 p0074 N75-16972 HILLER, H. G.
Study of potential for motor vehicle fuel economy improvement. Fuel economy test procedure panel report no. 6 [PB-241776/4] 08 p0210 N75-32470 Study of potential for motor vehicle fuel economy improvement. Technology panel report no. 4
[PB-241774/9] 08 p0210 N75-32471
Study of potential for motor vehicle fuel economy improvement. Safety implications panel report no. 2 no. 2
[PB-241772/3] 08 p0212 N75-33410
Study of potential for motor vehicle fuel economy improvement. Truck and bus panel report no. 7
[PB-241777/2] 08 p0212 N75-33411 MILLER, L. B.
Bickel-hydrogen as an alternative to lead-acid and 08 p0191 A75-45998 MILLER, L. G 1daho geothermal R and D project report for period 16 December 1973 - 15 March 1974 06 p0076 N75-16985 [ANC8-1155] MILLER, M.
Assessment of Rankine cycle for potential application to solar-powered cooling of buildings [ASME PAPER 74-WA/SOL-7] 05 p0019 A75-16890 Evaluation of solar-assisted Rankine cycle concept for the cooling of buildings 08 p0194 A75-46040 Energy efficiency of current intercity passenger transportation modes [AIAA PAPER 75-314] 06 p0047 A75-22513 EXELER, B. D.
Conversion of cellulosic wastes to oil 07 p0161 #75-27572 [PB-240839/1] MILLS, R. G. Current expectations for fusion power from toroidal machines 05 p0014 A75-12996 MILOVANOV, A. P.
Investigation of photoelectric converter operation under conditions of strong illumination
07 p0119 A75-360 07 p0119 A75-36015 Operation of photoconverters under conditions of strong illumination MINABAN, D. J.
Study on the effects of the energy crisis and 55
aph speed limit in Michigan [PB-241843/2] 08 p0212 N75-33499 MIMBR, J. R. Animal waste conversion systems based on thermal discharge [PB-240113] 07 p0159 #75-27548 MINGLE, J. O. An engineering assessment of the hydrogen economy 08 p0180 A75-44814 The Lawrence Berkeley Laboratory geothermal program in northern Newada 06 p0100 N75-20845 BISEUPP, B. J. A modular Meat source for curium-244 and

05 p0002 A75-10497

plutonium-238

MITCHELL, C. E.
Solar absorption air conditioning alternatives 08 p0167 A75-39410 HITCHELL, K.
II-VI photovoltaic heterojunctions for solar energy conversion 05 p0012 A75-12734 BITSUI, A. Photoproduction of hydrogen via microbial and biochemical processes 08 p0171 A75-42279 The utilization of solar energy for hydrogen production by cell-free system of photosynthetic organisms 08 p0176 A75-44770 MOPPITT, R. D. Storing electrical energy on a large scale 08 p0165 A75-38864 Solar energy conversion by water photodissociation 08 p0173 A75-43510 Review of direct energy conversion of ion beams: Experimental results and reactor applications
[UCRL-75600] 05 p0028 N75-11466
DART: A simulation code for a direct energy converter for fusion reactors [UCRL-51557] [UCRL-51557] 05 p0043 #75-15462
Interesting possibilities of fusion-fission
[BHWL-SA-5069] 06 p0096 #75-20106 Direct conversion of plasma energy to electricity for mirror fusion reactors [UCRL-76051] 07 p0129 N75-21800 MOISE, J. Development and evaluation of a Stirling-Cycle energy conversion system [PB-239086/2] 07 p0136 N75-22918 MOLONEY, P. Submarine tanker concepts and problems [COM-75-10009/9] 07 p 07 p0132 N75-22264 HOOM, R. L. Gals concentrator solar cell 06 p0058 A75-27520' MOONEY, P. D.

The role for Federal R and D on alternative automotive power systems [PB-238771/0] 07 p0137 #75-23391' MOORE, G. L. Sizing of solar energy storage systems using local weather records [ASME PAPER 74-WA/HT-20] 05 p0017 A75-16865 MOORE, G. W.

An evaluation of discarded tires as a potential source of fuel O5 p0012 A75-12416
An evaluation: The potential of discarded tires
as a source of fuel
[NASA-TH-X-58143] O5 p0030 pgc MOORB, R. H.
A process for cleaning and removal of sulfur compounds from low Btu gases [PB-236522/9] 06 p0065 N75-15768 MOOZ, W. B.
A USAP energy projection model
[AD-A006928] 07 p0132 N75-22476 MORASE, R. T. Independent energy systems for better efficiency 05 p0006 A75-10549 A brief description of geological and geophysical exploration of the Marysville geothermal area
06 p0099 m75-20839 Mineral resources and the environment. Appendit to section 3: Report of panel on the implications of mineral production for health and the environment
[PB-239582/0]

BORGENTHALER, G. W.
Energy Delta: Supply vs. demand; Proceedings of the Energy Symposium, San Prancisco, Calif., February 25-27, 1974 07 p0153 B75-26489 06 p0059 A75-27778 MOROZOV, G. N. Some developments of industrial magnetohydrodynamic electric power plants
06 p0081 1975-17792

MORREY, J. R.	MURNERL, W. D. Heat pipe applications development in Europe
Coal structure and reactivity [TID-26637] 06 p0097 #75-20805	08 p0195 A75-46043
MOBRIS, J.	MUPPLER, L. J. P.
National energy flow accounts [PB-239275/1] 07 p0146 H75-24539	Current worldwide utilization and ultimate potential of geothermal energy systems
HORRIS, J. W., JR.	06 p0060 175-27787
Cryogenic properties of Fe-Mn and Fe-Mn-Cr alloys	BUKHEBJRE, M. K.
[LBL-2764] 06 p0066 H75-15781 HORRIS, B. E.	Some aspects of a solar battery system and its use for irrigation in remote sun-rich regions
Study of active cocling for supersonic transports	06 p0054 A75-24256
[#ASA-CR-132573] 06 p0079 #75-17336	Solar cells for power generation on communication
BORRISON, C. A. A case study - Utilization of solar energy in	satellites 3- 08 p0174 A75-44005
residential dwellings	MURAHOTO, H.
[ASME PAPER 74-WA/SOL-2] 05 p0018 A75-16885	Laser induced luminescence signatures of refined
Selection and evaluation of the University of Plorida's solar powered absorption air	and virgin crude petroleum - Their composition and remote sensing implications
conditioning system	, 06 p0050 A75-23790
[ASME PAPER 74-WA/SOL-6] 05 p0019 A75-16889 Heating buildings with solar energy	NURDOCK, J. W. Various research tasks related to energy
07 p0117 A75~34933	information and data activities: Task 4
Solar characteristics of new absorptive coatings	priorities analysis
used on solar collectors 07 p0117 175-34934	[PB-240424/2] 07 p0151 #75-25329 HURIE, R. A.
Hethodology of research of flat-plate solar collector absorptive coatings	Corrosion and related problems in high-temperature cells
07 p0117 A75~34935	06 p0055 A75-24377
The University of Florida solar powered intermittent aumonia/water absorption air conditioner	MURPHY, K. P. Optimum properties of working fluids for solar powered heat pumps
07 p0118 A75-34936	08 p0185 A75-45937
Formulation of a data base for the analysis,	MURRAY, H. S.
evaluation and selection of a low temperature solar powered air conditioning system	Control system design and simulation for solar heated structures
[PB-238683/7] 07 p0136 N75-22928	[LA-UR-74-1085] 06 p0082 N75-17813
MORROW, W. B., JR. High-efficiency electrochemical plant	HURRAY, R. G. Hydrogen as an energy carrier
08 p0189 A75-45977	08 p0178 A75-44796
HORSE, F.	MUSCHICK, B.
A non-polluting powerplant for large airships [AIAA PAPER 75-927] 07 p0121 A75-37005	The solution of information-deficiency problems of electroenergy technology
HORSE, F. H.	06 p0062 A75-28508
The national solar energy program 07 p0139 N75~24102	MUSTAPARY, A. S. Influence of the geometrical development of the
HOSES, M. A.	cathode surface on the specific power of a
An approach to the power shortage problem:	thermionic converter with surface ionization 08 p0173 A75-43860
Optimal allocation of existing excess reserves through interregional transmission	MOTIN, J.
[PB-238578/9] 07 p0144 N75-24151	French activity in electric propulsion
BOSS, G. Chemically active fluid-bed process for sulphur	07 p0120 A75-36539 HYERS, N. B.
removal during gasification of heavy fuel oil,	Mechanical thermal motor
<pre>phase 2 [PB-240632/0]</pre>	[NASA-CASE-MFS-23062-1] 07 p0160 H75-27561 HYLES, R. H.
HOUILHATRAT, HR.	Development of high specific energy batteries for
Analysis of different systems concerning the	
	electric vehicles
energy distribution on board a satellite	electric vehicles [ANL-8058] 06 p0076 M75-16990
energy distribution on board a satellite [IAP PAPER 74-084] 05 p0014 A75-13716 BOURT, R. L.	electric vehicles [ANL-8058] 06 p0076 H75-16990 HYTTON, R. J. Progress in the development of cadmium sulphide
energy distribution on board a satellite [IAF PAPER 74-084] 05 p0014 A75-13716 BOUHT, B. L. Progress in coal gasification	electric vehicles [ANL-8058] 06 p0076 N75-16990 NTTON, R. J. Progress in the development of cadmium sulphide terrestrial solar batteries
energy distribution on board a satellite [IAF PAPER 74-084] 05 p0014 A75-13716 BOUNT, R. L. Progress in coal gasification 05 p0013 A75-12993 BOYSUBOV, B. A.	electric vehicles [ANL-8058] 06 p0076 N75-16990 NYTTOW, R. J. Progress in the development of cadmium sulphide terrestrial solar batteries 06 p0052 N75-24224
energy distribution on board a satellite [IAF PAPER 74-084] 05 p0014 A75-13716 BOUHT, B. L. Progress in coal gasification 05 p0013 A75-12993 BOVSUBOV, B. A. Experience in setting up solar-energy survey for	electric vehicles [ANL-8058] 06 p0076 N75-16990 NYTTOW, R. J. Progress in the development of cadmium sulphide terrestrial solar batteries 06 p0052 N75-24224
energy distribution on board a satellite [IAF PAPER 74-084] 05 p0014 A75-13716 BOURT, R. L. Progress in coal gasification 05 p0013 A75-12993 BOVSUBOV, B. A. Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081	electric vehicles [ANL-8058] 06 p0076 N75-16990 NTTTOW, R. J. Progress in the development of cadmium sulphide terrestrial solar batteries 06 p0052 A75-24224
energy distribution on board a satellite [IAF PAPER 74-084] 05 p0014 A75-13716 BOUHT, B. L. Progress in coal gasification 80 y S UBO y, E. A. Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081	electric vehicles [ANL-8058] MYTTON, R. J. Progress in the development of cadmium sulphide terrestrial solar batteries 06 p0052 A75-24224 N HAGEL, A. L. Future long-range transports - Prospects for
energy distribution on board a satellite [IAF PAPER 74-084] 05 p0014 A75-13716 BOUHT, B. L. Progress in coal gasification 55 p0013 A75-12993 BOYSUBOV, B. A. Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 BOU, C. C. Energy consumption by industries in support of	electric vehicles [ANL-8058] 06 p0076 N75-16990 NTTTOW, R. J. Progress in the development of cadmium sulphide terrestrial solar batteries 06 p0052 A75-24224
energy distribution on board a satellite [IAF PAPER 74-084] 05 p0014 A75-13716 BOUHT, R. L. Progress in coal gasification 80 vsubov, B. A. Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 BOU, C. C. Energy consumption by industries in support of pational defense: An energy demand model [AD-784964] 05 p0031 N75-12449	electric vehicles [ANL-8058] BYTTON, R. J. Progress in the development of cadmium sulphide terrestrial solar batteries N WAGEL, A. L. Future long-range transports - Prospects for inproved fuel efficiency [AIAA PAPER 75-316] Future long-range transports: Prospects for
energy distribution on board a satellite [IAF PAPER 74-084] 05 p0014 A75-13716 BOUHT, B. L. Progress in coal gasification 55 p0013 A75-12993 BOVSUBOV, B. A. Experience in setting up solar-energy survey for Azerbaidzhan 55 p0020 A75-17081 BOU, C. C. Energy consumption by industries in support of national defense: An energy demand model [AD-784964] Direct and indirect energy demand models for DoD	electric vehicles [ANL-8058] 06 p0076 N75-16990 NTTON, R. J. Progress in the development of cadmium sulphide terrestrial solar batteries 06 p0052 N75-24224 N WAGEL, A. L. Future long-range transports - Prospects for improved fuel efficiency [AIAA PAPER 75-316] 06 p0047 N75-22514 Future long-range transports: improved fuel efficiency
energy distribution on board a satellite [IAF PAPER 74-084] 05 p0014 A75-13716 BOUHT, R. L. Progress in coal gasification BOVSUBOV, B. A. Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 BOU, C. C. Energy consumption by industries in support of national defense: An energy demand model [AD-784964] Direct and indirect energy demand models for DoD [AD-A010968] BOYERS, J. C.	electric vehicles [ANL-8058] 06 p0076 N75-16990 NTTOW, R. J. Progress in the development of terrestrial solar batteries N NAGEL, A. L. Future long-range transports - Prospects for improved fuel efficiency [AIAA PAPER 75-316] 06 p0047 A75-22514 Future long-range transports: improved fuel efficiency [NSA-TH-X-72659] 06 p0079 N75-17339 NAMAS, J. J. J.
energy distribution on board a satellite [IAF PAPER 74-084] 05 p0014 A75-13716 BOUHT, B. L. Progress in coal gasification 80 y SUHOV, B. A. Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 BOU, C. C. Energy consumption by industries in support of national defense: An energy demand model [AD-784964] 05 p0031 N75-12449 Direct and indirect energy demand models for DoD [AD-A010968] 08 p0214 N75-33515 BOYERS, J. C. Residential energy conservation	electric vehicles [ANL-8058] 06 p0076 N75-16990 NTTON, R. J. Progress in the development of cadmium sulphide terrestrial solar batteries 06 p0052 A75-24224 N NAGEL, A. L. Future long-range transports - Prospects for improved fuel efficiency [AIAA PAPER 75-316] 06 p0047 A75-22514 Future long-range transports: improved fuel efficiency [NSA-TH-X-72659] 06 p0079 N75-17339 NAMAS, J. J. Hodeling and computer simulation of a
energy distribution on board a satellite [IAF PAPER 74-084] 05 p0014 A75-13716 BOUHT, R. L. Progress in coal gasification BOVSUBOV, B. A. Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 BOU, C. C. Energy consumption by industries in support of national defense: An energy demand model [AD-784964] Direct and indirect energy demand models for DoD [AD-A010968] BOYERS, J. C.	electric vehicles [ANL-8058] 06 p0076 N75-16990 NTTOW, R. J. Progress in the development of cadmium sulphide terrestrial solar batteries N NAGEL, A. L. Future long-range transports - Prospects for improved fuel efficiency [AIAA PAPER 75-316] 06 p0047 A75-22514 Future long-range transports: Prospects for improved fuel efficiency [NASA-TM-X-72659] 06 p0079 N75-17339 NAMAS, J. J. Modeling and computer simulation of a microwave-to-dc energy conversion element 07 p0120 A75-36500
energy distribution on board a satellite [IAF PAPER 74-084] 05 p0014 A75-13716 BOUHT, R. L. Progress in coal gasification 05 p0013 A75-12993 BOVSUMOV, B. A. Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 BOU, C. C. Energy consumption by industries in support of national defense: An energy demand model [AD-784964] 05 p0031 N75-12449 Direct and indirect energy demand models for DoD [AD-A010968] 08 p0214 N75-33515 BOVERS, J. C. Residential energy conservation [TID-26534] 05 p0031 N75-12442 BUCHBIK, G. P. Prospects and scientific problems of the	electric vehicles [ANL-8058] 06 p0076 N75-16990 NTTON, R. J. Progress in the development of cadmium sulphide terrestrial solar batteries 06 p0052 A75-24224 N NAGEL, A. L. Future long-range transports - Prospects for improved fuel efficiency [ATAM PAPER 75-316] 06 p0047 A75-22514 Future long-range transports: prospects for improved fuel efficiency [NSA-TM-X-72659] 06 p0079 N75-17339 NAMAS, J. J. Hodeling and computer simulation of a microwave-to-dc energy conversion element 07 p0120 A75-36500
energy distribution on board a satellite [IAF PAPER 74-084] 05 p0014 A75-13716 BOUHT, R. L. Progress in coal gasification BOVSUBOV, B. A. Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 BOU, C. C. Energy consumption by industries in support of national defense: An energy demand model [AD-784964] Direct and indirect energy demand models for DoD [AD-A010968] BOVERS, J. C. Residential energy conservation [IID-26534] BUCHEIK, G. F.	electric vehicles [ANL-8058] 06 p0076 N75-16990 NTTOW, R. J. Progress in the development of cadmium sulphide terrestrial solar batteries N NAGEL, A. L. Future long-range transports - Prospects for improved fuel efficiency [AIAA PAPER 75-316] 06 p0047 A75-22514 Future long-range transports: Prospects for improved fuel efficiency [NASA-TM-X-72659] 06 p0079 N75-17339 NAMAS, J. J. Modeling and computer simulation of a microwave-to-dc energy conversion element 07 p0120 A75-36500
energy distribution on board a satellite [IAF PAPER 74-084] 05 p0014 A75-13716 BOUHT, R. L. Progress in coal gasification 80 y SUBOV, E. A. Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 BOU, C. C. Energy consumption by industries in support of national defense: An energy demand model [AD-784964] 05 p0031 N75-12449 Direct and indirect energy demand models for DoD [AD-A010968] 08 p0214 N75-33515 BOUERS, J. C. Residential energy conservation [TID-26534] 05 p0031 N75-12442 BUCKEIK, G. F. Prospects and scientific problems of the utilization of methods of direct electric power generation from chemical fuels / fuel cells/ 05 p0012 A75-12911	electric vehicles [ANL-8058] 06 p0076 N75-16990 NTTON, R. J. Progress in the development of cadmium sulphide terrestrial solar batteries 06 p0052 A75-24224 N NAGEL, A. L. Future long-range transports - Prospects for improved fuel efficiency [ATAM PAPER 75-316] 06 p0047 A75-22514 Future long-range transports: Prospects for improved fuel efficiency [NASA-TH-X-72659] 06 p0079 N75-17339 NAMAS, J. J. Hodeling and computer simulation of a microwave-to-dc energy conversion element 07 p0120 A75-36500 NATA, B. J. Solar cells for power generation on communication satellites 08 p0174 A75-44005
energy distribution on board a satellite [IAF PAPER 74-084] 05 p0014 A75-13716 BOURT, R. L. Progress in coal gasification BOVSUBOV, B. A. Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 BOU, C. C. Energy consumption by industries in support of national defense: An energy demand model [AD-784964] 05 p0031 N75-12449 Direct and indirect energy demand models for DoD [AD-A010968] 08 p0214 N75-33515 BOVERS, J. C. Residential energy conservation [TID-26534] 05 p0031 N75-12442 BUCKBIK, G. F. Prospects and scientific problems of the utilization of methods of direct electric power generation from chemical fuels /fuel cells/ 05 p0012 A75-12911	electric vehicles [ANL-8058] 06 p0076 N75-16990 NTTON, R. J. Progress in the development of cadmium sulphide terrestrial solar batteries 06 p0052 A75-24224 N NAMEL, A. L. Future long-range transports - Prospects for improved fuel efficiency [AIAN PAPER 75-316] 06 p0047 A75-22514 Future long-range transports: Prospects for improved fuel efficiency [BASA-TH-X-72659] 06 p0079 N75-17339 NAMAS, J. J. Modeling and computer simulation of a microwave-to-dc energy conversion element 07 p0120 A75-36500 NAMEL, B. J. Solar cells for power generation on communication satellites 08 p0174 A75-44005
energy distribution on board a satellite [IAF PAPER 74-084] 05 p0014 A75-13716 BOUHT, R. L. Progress in coal gasification BOVSUBOV, E. A. Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 BOU, C. C. Energy consumption by industries in support of national defense: An energy demand model [AD-784964] 05 p0031 N75-12449 Direct and indirect energy demand models for DoD [AD-A010968] 08 p0214 N75-33515 BOVERS, J. C. Residential energy conservation [TID-26534] 05 p0031 E75-12442 BUCHEIK, G. F. Prospects and scientific problems of the utilization of methods of direct electric power generation from chemical fuels / fuel cells/ 05 p0012 A75-12911 BUDGE, L. K. Bethanol from forestry, municipal, and agricultural organic residues	electric vehicles [ANL-8058] 06 p0076 N75-16990 NTTON, R. J. Progress in the development of cadmium sulphide terrestrial solar batteries 06 p0052 A75-24224 N NAGEL, A. L. Future long-range transports - Prospects for improved fuel efficiency [ATAA PAPER 75-316] 06 p0047 A75-22514 Future long-range transports: Prospects for improved fuel efficiency [NSA-TH-X-72659] 06 p0079 N75-17339 NHANS, J. J. Hodeling and computer simulation of a microwave-to-dc energy conversion element 07 p0120 A75-36500 NAJAKA, B. S. An interdisciplinary engineering approach to a facility design study with emphasis on energy
energy distribution on board a satellite [IAF PAPER 74-084] 05 p0014 A75-13716 BOURT, R. L. Progress in coal gasification BOVSUBOV, E. A. Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 BOU, C. C. Energy consumption by industries in support of national defense: An energy demand model [AD-784964] 05 p0031 N75-12449 Direct and indirect energy demand models for DoD [AD-A010968] 08 p0214 N75-33515 BOVERS, J. C. Residential energy conservation [TID-26534] 05 p0031 N75-12442 BUCHEIK, G. F. Prospects and scientific problems of the utilization of methods of direct electric power generation from chemical fuels /fuel cells/ 05 p0012 A75-12911 BUDGE, L. E. Bethanol from forestry, municipal, and agricultural organic residues [BEWL-SA-5053] 06 p0085 B75-18702	electric vehicles [ANL-8058] 06 p0076 B75-16990 BTTTON, R. J. Progress in the development of cadmium sulphide terrestrial solar batteries 06 p0052 A75-24224 N BAGEL, A. L. Future long-range transports - Prospects for improved fuel efficiency [AIAN PAPER 75-316] 06 p0047 A75-22514 Future long-range transports: Prospects for improved fuel efficiency [BASA-TH-X-72659] 06 p0079 B75-17339 BAHAS, J. J. Modeling and computer simulation of a microwave-to-dc energy conversion element 07 p0120 A75-36500 BAJAKA, B. S. An interdisciplinary engineering approach to a facility design study with emphasis on energy conservation. Volume 2: Hain report text
energy distribution on board a satellite [IAF PAPER 74-084] 05 p0014 A75-13716 BOUHT, B. L. Progress in coal gasification 80vsUBOV, E. A. Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 BOU, C. C. Energy consumption by industries in support of national defense: An energy demand model [AD-78496A] 05 p0031 N75-12449 Direct and indirect energy demand models for DoD [AD-8010968] 08 p0214 N75-33515 BOUERS, J. C. Residential energy conservation [TID-26534] 05 p0031 E75-12442 BUCHEIK, G. F. Prospects and scientific problems of the utilization of methods of direct electric power generation from chemical fuels / fuel cells/ 05 p0012 A75-12911 BUDES, L. E. Bethanol from forestry, municipal, and agricultural organic residues [BWEL-SA-5053] 06 p0085 E75-18702 BUELBAUSER, J. V. The BED power generation system with directly	electric vehicles [ANL-8058] 06 p0076 N75-16990 NTTON, R. J. Progress in the development of cadmium sulphide terrestrial solar batteries 06 p0052 A75-24224 N NAGEL, A. L. Future long-range transports - Prospects for improved fuel efficiency [ATAM PAPER 75-316] 06 p0047 A75-22514 Future long-range transports: Prospects for improved fuel efficiency [NSA-TM-X-72659] 06 p0079 N75-17339 NHAS, J. J. Hodeling and computer simulation of a microwave-to-dc energy conversion element 07 p0120 A75-36500 NAJAKA, B. S. An interdisciplinary engineering approach to a facility design study with emphasis on energy conservation. Volume 2: Hain report text [AD-A006804] An interdisciplinary engineering approach to a facility design study with emphasis on energy conservation. Volume 2: Hain report text [AD-A006804]
energy distribution on board a satellite [IAF PAPER 74-084] 05 p0014 A75-13716 BOUHT, R. L. Progress in coal gasification BOYSUBOV, B. A. Experience in setting up solar-energy survey for Azerbaidzhan 05 p0020 A75-17081 BOW, C. C. Energy consumption by industries in support of national defense: An energy demand model [AD-784964] 05 p0031 N75-12449 Direct and indirect energy demand models for DoD [AD-A010968] 08 p0214 N75-33515 BOYERS, J. C. Residential energy conservation [TID-26534] 05 p0031 E75-12442 BUCHEIK, G. P. Prospects and scientific problems of the utilization of methods of direct electric power generation from chemical fuels /fuel cells/ 05 p0012 A75-12911 BUDGE, L. E. Bethanol from forestry, municipal, and agricultural organic residues [BUBL-SA-5053] 06 p0085 E75-18702	electric vehicles [ANL-8058] 06 p0076 N75-16990 NTTON, R. J. Progress in the development of cadmium sulphide terrestrial solar batteries N NAMERL, A. L. Future long-range transports - Prospects for improved fuel efficiency [AITAN PAPER 75-316] 06 p0047 A75-22514 Future long-range transports: Prospects for improved fuel efficiency [NASA-TH-X-72659] 06 p0079 N75-17339 NAMAS, J. J. Modeling and computer simulation of a microwave-to-dc energy conversion element 07 p0120 A75-36500 NAIR, B. J. Solar cells for power generation on communication satellites 08 p0174 A75-44005 NAJAKA, R. S. An interdisciplinary engineering approach to a facility design study with emphasis on energy conservation. Volume 2: Main report text [AD-A006804]

An interdisciplinary engineering approach to a facility design study with emphasis on energy conservation. Volume 3: Appendices [AD-A006805] 07 p0149 #75-25305 Survey on power fluid for thermal power from low temperature and small temperature difference heat source 07 p0119 A75-36173 MAPOLI, L. S. Silicon solar cells for highly concentrated sunlight 07 p0120 a75-36363 BARSAVAGE, S. T. Porous matrix structures for alkaline electrolyte fuel cells 07 p0123 A75-37243 BARUCKI, C. W. es : Evaluation of advanced lift concepts and fuel conservative short-haul aircraft, volume 1 [NASA-CR-137525] 06 p0096 N75-20291 [NASA-CR-137525] Evaluation of advanced lift concepts and fuel Aluation or advanced into conservative short-haul aircraft, volume 2 f NASA-CR-1375261 06 p0097 N75-20292 BATHAB, C. A.
Overcoming two significant hurdles to space power generation Transportation and assembly
[AIAA PAPER 75-641] 06 p0063 A75-28 06 p0063 A75-28601 NACHANN, J. D. A regional energy information system for Hinnesota: A preliminary design
[PB-241124/7]

08 p0205 N75-30944 Design Considerations for a comprehensive regional energy information system [PB-241123/9] 08 p0206 N75-30946 BEALE, E. C. Energy resources and utilization 06 p0075 N75-16983 Prosping development of acoustical instability in a system consisting of a combustion chamber and a subsonic MHD generator 06 p0045 A75-19959 Experience in the first step of the mastery of the U-25 device 06 p0081 N75-17793 BEHRING, R. Protecting the US petroleum market against future denials of imports [AD-A006643] 07 p0137 N75-23387 NRILL, C.
An econometric analysis of fuel selection for power generation 06 p0055 A75-24751 Study of the costs and benefits of composite materials in advanced turbofan engines [NASA-CR-134696] 06 p00 06 p0073 N75-16637 BELSON, D. T. Terrestrial photovoltaic power systems with sunlight concentration [PB-238582/1] 06 p0105 N75-20886 BELSON, H. G. Potential structural material problems in a hydrogen energy system [BASA-TM-X-71752] 07 p0154 N75-26500 WELSOW, P. A.
High energy battery program at Argonne National Laboratory [ANL-8064] 06 p0076 N75-16984 Development of high specific energy batteries for electric vehicles [ANL-8058] 06 p0076 N75-16990 BERF, E. F., JR.
A large mechanical contracting corporation solar heats its own offices 08 p0184 A75-45924 BROBY, G. A.
The BRDA thermionic program 08 p0187 A75-45955 Bregard, P. H. Continued development of energy transmission and CONVERSION systems [PB-236181/4] 05 p0037 N75-14278 BRUIRTH, R.

Engineering and cost study of air pollution control for the retrochemical industry, volume 3: Ethylene dichloride manufacture by

07 p0162 N75-27612

oxychlorination

[PB-240492]

BGUYEN DUY, T. The effects of irradiation on high-efficiency silicon solar cells 06 p0051 A75-24199 MGUYEM-DUY, T. CdS-Cu2S cells - An outlook for terrestrial applications 06 p0052 A75-24223 MICHOLS, D. A. Net radiation and other energy-related maps from remotely sensed imagery 07 p0121 A75-36811 BICHOLS, D. B. Evaluation of fixed bed, low BTU coal gasification systems for retrofitting power plants
[PB-241672/5] 08 p0 08 p0211 N75-32602 BIDEVER, R. L. Economic impact on the free world of the oil crisis, October 1973 - March 1974
[AD-A003136] 06 p0107 M 06 p0107 N75-21156 HIRBERDING, W. C.
Incorporating energy conservation techniques in the operation of existing LeRC R and D facilities [NASA-TH-X-71813] 08 p0212 B75-33494 BIBHOPP, R. T. Various research tasks related to energy information and data activities. Task 2 national energy indexing schemes: Characterization of problem [PB-240423/4] 07 p0152 N75-25774 WIELSEN, C. E.
Solar ponds for space heating 07 p0109 A75-29471 MIESSEN, E. F. Nuclear district-heating and nuclear long-distance energy [JUL-1077] HODA, F. 06 p0093 N75-19828 Aluminum nitride and silicon nitride for high-temperature vehicular gas turbine engines 05 p0011 A75-11362 HOEL, G. T. Research and development of low cost processes for integrated solar arrays [PB-239760/2] 07 p0156 N75-26519 HORTON, J.
Workshop on Fundamental Research in Homogeneous catalysis as Related to US Energy Problems [PB-240177/6] 08 p0200 H75-28524 BOTESTEIN, J. B. Operational experience - Solar heating a Boston school 08 p0184 A75-45923 Solar heating experiment on the Grover Cleveland School, Boston, Massachusetts [PB-239516/8] 07 p0155 N75-26505 MOTTI, J. B. Design and testing of an energy flywheel for an Integrated Power/Attitude Control System /IPACS/
[AIAA PAPER 75-1107] 08 p0171 A75-41669 [AIAA PAPER 75-1107] BOTTI, J. B., JR.
Design and test of a flywheel energy storage unit for spacecraft application 08 p0193 A75-46028 HOVIKOV, W.
How spacecraft are fueled [JPRS-63514] 05 p0027 N75-10983 BUCCIOTTI, P. Reteorological factors and dispersion of pollutants in the atmosphere - A preliminary study about a large power plant 06 p0045 A75-21150 NUCKOLLS, J. New approaches to CTR: General relativistic power plants [UCRL-75443] 06 p0073 N75-16362 HULLER, T. A. Dependence of the basic parameters of Al/x/Ga/1-x/As-GaAs solar converters on Al/x/Ga/1-x/As-GaAs Sold College temperature and optical intensity 07 p0112 A75-32824 FOTTALL, L. J.
Prospects for electrolytic hydrogen for chemical/industrial plants 08 p0168 A75-40179 Hydrogen generation by solid-polymer electrolyte water electrolysis

08 p0177 A75-44777

Solid polymer electrolysis fuel cell status report 08 p0186 A75-45942

OMELEY, C. G.
Use of solar energy in buildings in New York state (PB-236974/2) 06 p0083 F75-17829

OBTRUE, J. H.

Electrostatic voltage generation from flowing water 06 p0083 #75-17825

05 p0009 A75-10580

Solar One, two years experience

08 p0184 A75-45922

ODAY. J.

Study on the effects of the energy crisis and 55 mph speed limit in Michigan [PB-241843/2] 08 p0212 #75-3. 08 p0212 #75-33499 ODEN, B. A.

Relationships between bidding and hydrocarbon production of the Federal Outer Continental Shelf (through 1970)

[PB-238188/7] 07 p0127 #75-21788

OBEMS, K. J. State of the art and prospects for electric vehicles [BLL-OA-TRANS-1250-(6196.3)] 06 p0074 N75-16712 OBSTERWIND, D.

Other primary energy resources

06 p0050 A75-23512

OGANOV, E. P. Effect of heat transfer from the lateral surfaces of semiconductor thermocouples on the energy characteristics of a thermoelectric generator 05 p0021 A75-18798

ORARA, J. B. Perconstration plant, clean boiler fuels from coal.
Volume 3: Preliminary design/economics analysis [PB-238529/2] 07 p0142 N75-24127

OHBISHI, Y. Theory of heat extraction from fractured hot dry

06 p0057 A75-26544

OHNO, S. Production of hydrogen from water using nuclear

energy: A review [JAERI-M-5642] 06 p0093 N75-19824

OHREBBERGER, J.
Study on electrofluid dynamic power generation

[AD-A004762] 07 p0155 N75-26507 OHTA, T.

Water-splitting system synthesized by photochemical and thermoelectric utilizations of solar energy 08 p0190 A75-45994

OLEBEY, N. H.
Improving the oil storage system of western Siberia
[AD-A002717] 06 p0092 H75-1970 06 p0092 N75-19705

OLIBH, M. A. Bydrogen-future fuel-A bibliography (with emphasis

on cryogenic technology)
[COM-75-10289/7] 07 p0155 N75-26509

OLLENDORF, S.

The International Heat Pipe Experiment
[AIAA PAPER 75-726] 07 pt 07 p0113 A75-32870

Tropical ocean thermal power plants and potential products
[AIAA PAPER 75-617] 06 p0064 A75-29116

Advanced betavoltaic power sources 05 p0007 A75-10563 OLSOB, L. L.

Environmental aspects of cadmium sulfide usage in solar energy conversion. Part 1: Toxicological and environmental health considerations, a bibliography 06 p0105 N75-20884

[PB-238285/1] OBELL, P. Interferometric tuning of a 15-atm CO2 laser 06 p0058 A75-27518

ISCHAK, B. 60 watt hydride-air fuel cell system 05 p0008 A75-10567

Bodeling of the CSU heating/cooling system 07 p0109 A75-29473 OPJORDEN. R. W. Performance of advanced silicon solar cells in a space environment 06 p0052 A75-24232

OPPENHEIN, A. K.
Combustion R&D - Key to our energy future 05 p0009 A75-10596

OPSCHOOR, G. On the potentialities of polyphenylene oxide (PPO) as a wet-insulation material for cargo tanks of LNG-carriers

[REPT-194-H] 05 p0035 N75-14002

ORTEHBERG, E. S.
The influence of the petrology of the Karagandin coals on their methane contents [BLL-RTS-9309] 07 p0158 N75-27511

OSHIDA, I. Utilization of solar energy

[NASA-TT-F-16090] 05 p0033 B75-13382 OSIPOV, V. M.

Laboratory semiautomatic infrared device for determining the composition of petroleum products in sewage

07 p0125 A75-38648 OSHEYER, W. E.
A 10% efficient economic RTG design

05 p0003 A75-10506 OSTROPP, H. S.

F-15 secondary power systems
[SAE PAPER 740885] 06 p0048
OVERBEY, W. K., JR.
Relationships of earth fracture systems to 06 p0048 A75-22948

productivity of a gas storage reservoi 06 p0089 N75-18759 [PB-237894/1]

OWENS, S. L. Electrical power generation subsystem for Space Shuttle Orbiter

05 p0002 A75-10477

P

PAGE, J. K. Solar energy and architecture

07 p0112 A75-31698

PALBOCRASSAS, S. N. Photolysis of water as a solar energy conversion process - An assessment

08 p0176 A75-44766 Solar farms utilizing low-pressure closed-cycle

gas turbines 05 p0003 A75-10514

PALHIBRA, S. Meteorological factors and dispersion of pollutants in the atmosphere - A preliminary study about a large power plant

06 p0045 A75-21150 PALZ, W.
Solar cells - Present state and perspectives on

terrestrial applications 06 p0058 A75-27716

PANGBORN, J. B. Nuclear energy requirements for hydrogen production from water

05 p0005 A75-10533 Analysis of thermochemical water-splitting cycles 08 p0177 175-44781 Utilization of hydrogen as an appliance fuel 08 p0178 A75-44794

PABLICKER, H. P. R. Solar cells for power generation on communication satellites

08 p0174 A75-44005 PAPE, R.

Study of an electrofluidic generator 08 p0189 A75-45978

PARPENOV, B. V. Concerning the use of a nitrogen-potassium gaseous mixture for protection of MHD-generator electrodes by suction

07 p0112 A75-31569 PARK, R. L.
Surface electronic properties and the search for new hydrogen oxidation catalysts 08 p0178 A75-44795 PERSONAL AUTHOR INDEX PPEPPER, P. S.

PARKER, E. W. The nature of the sunspot phenomenon. III - Energy consumption and energy transport. IV - The intrinsic instability of the magnetic configuration 06 p0064 A75-29137 PARKER, B. B. Cryogenic properties of Pe-Hn and Fe-Hn-Cr alloys [LBL-2764] 06 puudo m.

PARKER, B. D.

Remote sensing for Western coal and oil shale 06 p0066 N75-15781 development planning and environmental analysis 07 p0118 A75-35458 KER, J. H., JR.
A high-speed superconducting generator 06 p0060 A75-27960 Some developments of industrial magnetohydrodynamic electric power plants
06 p0081 N75-17792 PARRISH, W. R. An economic study of electrical peaking alternatives 08 p0179 A75-44799 Selected topics on hydrogen fuel [COM-75-10619/5] 08 p0207 N75-3 PARTAIN, L. D. Reliability of low cost Cu2S/CdS solar cells for 08 p0207 N75-31575 large scale conversion of solar to electrical 08 p0174 A75-44754 PARVIZI, A. Further progress in the technology of silk screened CdS solar cells 06 p0052 A75-24225 PASHKOV, S. A.
Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17792 Experience in the first step of the mastery of the 06 p0081 N75-17793 PASSANI, J. P. Storage of energy in kinetic batteries for an earth resources satellite [IAF PAPER ST-75-09] 08 p0183 A75-45875 PASTRIAK, A.
Bethyl alcohol production by in situ coal gasification [UCID-51600] 07 p0128 N75-21797 PASTOR, G. R.

Development of a process for producing an ashless,
low-sulfur fuel from coal. Volume 2:
Laboratory studies. Part 1: Autoclave [PB-236305/9] 05 p0040 N75-15169 PATE, R. A.
A hot liquid energy storage system utilizing natural circulation
[ASHE PAPER 74-WA/HT-16] 05 p0017 A 05 p0017 A75-16862 Design charts for hot liquid energy storage systems utilizing forced circulation [AIAA PAPER 75-742] 07 p0 07 p0113 A75-32851 PATIL, P. G.
Pield performance and operation of a flat-glass solar heat collector 07 p0115 A75-33973 PATTERSON, R. C.
LOW-BTU gasification of coal for electric power generation [PB-236972/6] 06 p0088 N75-18740 PATTERSON, B. W.
Evaluation of advanced lift concepts and fuel Conservative short-haul aircraft, volume 1
[#ASA-CR-137525] 06 p0096 #75-20291
Evaluation of advanced lift concepts and fuel conservative short-haul aircraft, volume 2 [HASA-CR-137526] 06 p0097 H75-20292 Interplanetary spacecraft design using solar electric propulsion
[AIAA PAPER 74-1084] 05 p0010 A75-11283 PAULLIE, R. L. Transportation vehicle energy intensities. A joint DOT/HASA reference paper [NASA-TH-I-62404] 05 p0035 H7 05 p0035 N75-13690 PAULSEY, P. Design and qualification of the CTS solar cell

06 p0053 175-24248

blanket

PARTOR, C. L. Development of a thermal battery for emergency radio power under arctic conditions 05 p0007 A75-10560 PBARSOB, B. O.
Phase 0 study for a geothermal superheated water proof of concept facility 06 p0102 N75-20858 PEASE, R. W.
Net radiation and other energy-related maps from remotely sensed imagery

07 n0121 A75-3 07 p0121 A75-36811 PRHNER, S. S.
Energy. Volume 1 - Demands, resources, impact, technology, and policy Various research tasks related to energy information and data activities. 'Task national energy indexing schemes: Characterization of problem Task 2 07 p0152 N75-25774 [PB-240423/4] PROPLES, J. A.
Analytical description of the modern steam automobile [NASA-TM-X-72199] 05 p0035 N75-14134 PERROUD, P. Production of hydrogen by the electrolysis of water 06 p0046 A75-22044 PERRUSSEL, R. B. Development of a process for producing an ashless, low-sulfur fuel from coal. Volume 2: Laboratory studies. Part 1: Autoclave experiments
[PB-236305/9] 05 p0040 N75-15169 PERVIER, J. W.

Engineering and cost study of air pollution
control for the petrochemical industry, volume
3: Ethylene dichloride manufacture by oxychlorination [PB-240492]
PERVUKHIN, M.
Soviet energy potential
[BLL-M-23413-(5828.4F)] 07 p0162 R75-27612 08 p0199 N75-28516 PBSCROB, J.

Blectric power systems analysis research
[PB-239236/3] 07 p01 07 p0143 N75-24139 PRTEFISH, D. A brief description of geological and geophysical exploration of the Marysville geothermal area 06 p0099 N75-20839 Solar augmented home heating heat pump system 05 p0004 A75-10524 Wisconsin superconductive energy storage project, volume 1 [PB-238082/2] 06 p0105 N75-20
PETERSON, R. B.
Thin film coatings in solar-thermal power systems 06 p0105 N75-20887 06 p0056 A75-25679 Principles and applications of selective solar coatings 08 p0181 A75-45511 PETERSON. S. R. Retrofitting existing housing for energy conservation: An economic analysis [COM-75-50049/6] 07 p013 07 p0135 N75-22914 PRTROV, B. W.

Pundamentals of automatic control of space nuclear power plants 06 p0048 A75-23229 PETTY, S. Recent MHD generator testing at Avco Everett Research Laboratory, Inc [ASHE PAPER 74-WA/BRER-7] 05 p0016 A75-16839 PRITYJOHN, W. A.

Determine utility of ERTS-1 to detect and monitor area strip mining and reclamation
[E75-10327] 07 p0158 N75-27515
PRIZEL, G.
Evaluation of the suitability of Skylab data for the purpose of petroleum exploration
[E75-10257]

PPEFFER, F. H.

Pollutional problems and research needs for an oil 07 p0147 #75-25237 shale industry [PB-236608/6] 06 p0084 N75-17848

Prepren, J. T.	PITTIBATO, G. P.
Biological conversion of organic refuse to methane [PB-235468/6] 05 p0041 N75-15183	Material considerations involved in solar energy conversion
PHILLIPS, J. D. Assessment of a single family residence solar	06 p0047 A75-2252 PLANTS, K. D.
heating system in a suburban development setting [PB-240784/9] 08 p0203 N75-29552	Conceptual design and economics of an MHD pilot plant
Assessment of a single family residence solar heating system in a suburban development setting	08 p0189 A75-4597
[PB-240553/8] 08 p0203 N75-29570 PHILLIPS, J. E.	How might the hydrogen economy affect our resources and environment
CdS/Cu2S solar cells, their potential and limitations	08 p0179 A75-4480
O8 p0188 A75-45961 PHILLIPS, W. B. The Florida Solar Energy Center	Possible development of acoustical instability in a system consisting of a combustion chamber and a subsonic MHD generator
08 p0169 A75-40614	06 p0045 A75-1995
PHILLIPS, W. F. A hot liquid energy storage system utilizing	POHM, H. A. The detection of geothermal areas from Skylab
natural circulation [ASBE PAPER 74-WA/HT-16] 05 p0017 A75-16862	thermal data [NASA-CR-143133] 07 p0158 N75-2754
Design charts for hot liquid energy storage systems utilizing forced circulation	POLIZO, G. D. Computation of water temperature at the mouth of a
[AIAA PAPER 75-742] 07 p0113 A75-32851 PHIMBEY, H. K.	geothermal well 08 p0170 A75-4154
Animal waste conversion systems based on thermal discharge	POLLACK, B. L. Energy from urban wastes
[PB-240113] 07 p0159 N75-27548 PICHARD, G.	05 p0006 A75-1054
CdS-Cu2S cells - An outlook for terrestrial applications	Research and development of low cost processes for
06 p0052 A75-24223	integrated solar arrays [PB-239760/2] 07 p0156 N75-2651
PICKETT, D. F. High energy density sintered plate type sealed	POPE, E. J. The fuel scene and its impact on the economics of
nickel cadmium battery cells. I - The positive electrode/plaque relationships	airline operations 08 p0165 175-3901
05 p0008 A75-10569 High energy density sintered plate type	POPROV, V. Steps into the future. Development of the power
nickel-cadmium battery cells. II - Electrochemical impregnation methods to produce	industry in the USSR [BLL-M-23330-(5828.4P)] 06 p0085 N75-1871
nickel oxide electrodes 05 p0008 A75-10570	POPOVICI, T.
PICRAUI, S. T.	Scientific research seeks new sources of energy 06 p0107 175-2121
Hydrogen distribution profiling 08 p0179 A75-44805 PIERCE, J. R.	POPVSKII, B. V. Erecting gas storage facilities and oil centers [AD-A006559] 07 p0134 H75-2278
Caltech seminar series on energy consumption in private transportation	POPYRIM, L. S. Investigation of characteristics of
[PB-235348/0] 05 p0040 N75-15179 PIRRSON, D. R.	magnetohydrodynamic generators in industrial power plants
Imperial Valley's proposal to develop a guide for geothermal development within its county	[AD-A008343] 07 p0149 875-2530 PORTER, J. T.
06 p0 100 H75-20844 PIKABSKY, H.	A search for thermochemical water-splitting cycles
Getting at the big facts in transportation	08 p0177 A75-4478:
08 p0173 A75-42973 PIKUL, B. P.	Pusion reactors as future energy sources 05 p0011 A75-1173:
Program plan for environmental effects of energy [PB-235115/3] 05 p0040 N75-15177	The outlook for fusion energy sources - Remaining technological hurdles
PIEDER, G. F. Geothermal reservoir simulation	06 p0059 175-2778. Outlook for fusion energy sources: Remaining
06 p0 101 N75-20852 PINDYCK, R. S.	technological hurdles [UCRL-75418] 05 p0029 H75-1174
The economics of the natural gas shortage (1960-1980)	POSTON, D. L. Technology assessment of portable energy RDT and P
[PB-242166/7] 08 p0214 N75-33932 PINKEL, I. I.	[NASA-CR-137655] 07 p0160 H75-2756; POSTULA, P. D.
Alternative fuels for aviation 06 p0075 N75-16980	Radioisotope space power generator
PISCHIBGER, F.	POTAPOV, V. H.
Methanol as fuel for vehicle engines 06 p0050 A75-23506	Testing of a photoelectric generator in a mountainous region of the Azerbaidzhan SSR
PISHIKOV, S. I. Experience in the first step of the mastery of the	06 p0057 A75-26714 Photoelectric generator testing in the
U-25 device 06 p0081 H75-17793	Azerbaidzhan SSR mountains 07 p0122 A75-3716
Electronic model of the U-25 device 06 p0081 H75-17794	POWE, R. B. "A wind energy conversion system based on the
PITCHER, E. Hanportable thermoelectric generator	tracked-vehicle airfoil concept 05 p0004 A75-10518
[AD-A002042] 06 p0095 N75-19847	POWELL, J.
PITHIN, J. K. Average oil yeild tables for oil shale sequences	The technology and economies of hydrogen production from fusion reactors
in cores from the Uinta Basin, Utah, that average 15, 20, 25, 30, 35, and 40 gallons per ton	08 p0176 A75-44767 Synopsis of studies on synthetic fuels production
[PB-236068/3] 06 p0072 B75-16124	by fusion reactors [BNL-19336] 06 p0106 M75-21104

PERSONAL AUTHOR TEDEX RABIE, J. E.

POWELL, J. C.	PULSIPER, A. H.
Dynamic conversion of solar generated heat to electricity	Coal processing by electrofluids [PB-236588/0] 06 p0088 E75-18743
[NASA-CR-134724] 06 p0066 H75-16079	PUSHIWA, L. I.
Solar thermal conversion program. Central receiver POCE project, subsystem specifications studies	Bmpirical method of designing the current-voltage characteristics for the discharge mode of a thermionic converter
[PB-238002/0] 06 p0087 N75-18733	06 p0057 A75-26332
POWBIL, J. R. High efficiency power conversion cycles using hydrogen compressed by absorption on metal	PUTHOFF, R. Plans and status of the WASA-Lewis Research Center wind energy project
hydrides	08 p0197 A75-47802
08 p0194 A75-46034 Applications of fusion power technology to the chemical industry	Plans and status of the NASA-Lewis Research Center wind energy project [NASA-TH-X-71701] 07 p0128 N75-21795
[BEL-18815] 05 p0029 H75-11730 Survey of applications of fusion power technology	PUTHOFF, R. L. The 100 kW experimental wind turbine generator
to the chemical and material processing industry	project
[BHL-18866] 05 p0031 H75-12443 Synthetic fuels from fusion reactors	[NASA-TM-X-71758] 08 p0202 N75-29546 PUTHAH, A.
[BHL-19351] 06 p0106 H75-21098 POWERS, J. E.	Study of potential problems and optimum opportunities in retrofitting industrial
Bvaluation of coal conversion processes to provide clean fuels, part 1	processes to low and intermediate energy gas from coal
[PB-234202/0] 05 p0025 N75-10600 Bwaluation of coal conversion processes to provide	[PB-237116/9] 06 p0088 N75-18739 PYTLINSKI, J. T.
clean fuels, part 2	Solar characteristics of new absorptive coatings
[PB-234203/8] 05 p0025 N75-10604 PRAGER, R. C.	used on solar collectors 07 p0117 175-34934
Compatibility and reliability of heat pipe materials [AIMA PAPER 75-660] 07 p0114 A75-32918	<pre>Methodology of research of flat-plate solar collector absorptive coatings</pre>
PRAVDA, H. P.	07 p0117 A75-34935
Snow and ice removal from pavements using stored earth energy	_
[PB-240623/9] 07 p0162 N75-27581	Q
PRELAT, A. E. Statistical estimation of wildcat well outcome	QUADE, R. N. Hydrogen production with a high-temperature
probabilities by visual analysis of structure contour maps of Stafford County, Kansas	gas-cooled reactor /HTGR/ 08 p0175 A75-44759
PRIGEORE, D. 06 p0092 N75-19778	QUADRIFI, J. Cryogenic heat pipe experiment - Flight
Cooling with the sun's heat - Design considerations and test data for a Rankine Cycle	performance onboard a sounding rocket [AIAA PAPER 75-729] 07 p0113 A75-32872
prototype 08 p0167 A75-39409	QUILLIM, D. A regional energy information system for
PRIGHORE, D. R.	Minnesota: A preliminary design
A prototype solar powered, Rankine Cycle system providing residential air conditioning and	[PB-241124/7] 08 p0205 N75-30944 QUIST, G. C.
electricity 05 p0004 A75-10523	Environmental aspects of cadmium sulfide usage in solar energy conversion. Part 1: Toxicological
PROKOPY, J. C.	and environmental health considerations, a
Industrial energy studies of ground freight transportation, volume 1	bibliography [PB-238285/1] 06 p0105 N75-20884
[PB-236016/2] 06 p0069 N75-16099 Industrial energy studies of ground freight	_
transportation. Volume 2: Appendices	R
[PB-236017/0] 06 p0069 B75-16100 PSCHUBDER, W.	Nuclear heat source for cryogenic refrigerators in
Improvements in analysis and technology of silicon	space 08 p0191 A75-46006
solar cells with increased efficiency 06 p0051 A75-24216	SENSE 2: Space applications of nuclear power.
PSHENICHHOV, N. M. Investigation of characteristics of	Volume 1: Commercial communications satellite [ABC-SNS-3063-3-VOL-1] 06 p0065 B75-15742
magnetohydrodynamic generators in industrial	RABENHORST, D. W. Betals and composites in superflywheel energy
Power plants [AD-A008343] 07 p0149 N75-25307	storage systems
PUGH, P. G. A generalised analysis of the performance of a	06 p0047 A75-22523 The multirim superflywheel
variety of drive systems for high Reynolds number, transonic wind tunnels	[AD-A001081] 06 p0085 N75-18594 RABIN, R.
[RAE-TR-73134] 06 p0073 N75-16572 PUGLISI, V. J.	Program plan for environmental effects of energy [PB-235115/3] 05 p0040 N75-15177
High energy density sintered plate type sealed nickel cadmium battery cells. I - The positive electrode/plaque relationships	RABINOUTTZ, M. The Electric Power Research Institute's role in applying superconductivity to future utility
05 p0008 A75-10569	systems 06 p0056 A75-25827
High energy density sintered plate type nickel-cadmium battery cells. II -	RABL, A.
Electrochemical impregnation methods to produce nickel oxide electrodes	Solar ponds for space heating 07 p0109 A75-29471
05 p0008 A75-10570	RADEBOLD, R.
PULHABOY, M. V. Testing of a photoelectric generator in a	The introduction of the principles of biological energy supply in future technical systems
mountainous region of the Azerbaidzhan SSR 06 p0057 A75-26714	06 p0050 A75-23511
Photoelectric generator testing in the	The selection and use of energy storage for solar
Azerbaidzhan SSR mountains	thermal electric application

07 p0122 A75-37165

08 p0189 A75-45980

RAIKOV, I. I. Design study of the energy characteristics of thermionic electric power generating components and assemblies 06 p0064 A75-28893 BAKEBANOV, A.
Statistical relation between heat transfer from a closed area and meteorological parameters during the use of a sclar refrigerating plant
08 p0169 A75-41072 Peasibility study of a satellite solar power station [NASA-CR-2357] 07 p0138 H75-23683 RALPE, E. L. Development and space qualification of new high-efficiency silicon solar cells 06 p0052 A75-24218 Photovoltaic solar power systems 07 p0139 #75-24098 RASAKUMAR, R. Solar energy conversion and storage systems for the future 05 p0013 A75-12988 Prospects for tapping solar energy on a large scale
05 p0015 A75-14014 Economic and technical aspects of wind generation systems 07 p0116 A75-34533 Wind energy utilization prospects 07 p0117 A75-34928 Continuous duty solar energy system concepts 08 p0190 A75-45993 Barnessing wind power in developing countries 08 p0191 A75-46009 PARKUMAR, R. G.
Development of an electrical generator and electrolysis cell for a wind energy conversion system [PB-239272/8] 07 p015
RABET, H. J., JR.
Geothermal reservoir engineering research 07 p0150 N75-25315 06 p0101 N75-20853 Thin file coatings in solar-thermal power systems Thin film coatings in solar-thermal power systems 06 p0056 A75-25679 Solar-thermal electric power generation using a system of distributed parabolic trough collectors [AICHE PAPER 12] 08 p0196 A75-47511 Proceedings of the Solar Thermal Conversion Workshop [PE-239277/7] 07 p0145 B75-24157 Development of flat-plate solar collectors for the heating and cooling of buildings 07 p0154 N75-26495 [HASA-CR-134804] Research applied to solar thermal systems
[PB-241089/2] 08 p020 08 p0200 N75-28543 Research applied to solar thermal [PB-241090/0] 08 p0201 N75-28544 RAMSBY, W.

Rationale for setting priorities for new energy technology research and development

[UCRL-51511] 05 p0024 R75-05 p0024 R75-10594 Thermochemical hydrogen production research at Lawrence Livermore Laboratory 08 p0177 A75-44780 RAMPALL, C. C.

Evaluation of advanced lift concepts and fuel conservative short-haul aircraft, volume 1
[MASA-CR-137525] 06 p0096 M75-20291
Evaluation of advanced lift concepts and fuel conservative short-haul aircraft, volume 2
[NASA-CR-137526] 06 p0097 #75-20292 RAMKEN, W. A. Buclear propulsion technology transfer to energy systems [ÁIAA PAPER 74-1072] 05 p0001 A75-10264 Conceptual design of a heat pipe methanator
[LA-5596] 06 p0074 N75-16774

RANKIN, C. F., JR.
A 100 watt Stirling electric generator for solar
or solid fuel heat sources 08 p0192 A75-46014 BANNELS, J. B.
Solar energy program plan for heating and cooling buildings
[WASH-1337-5-DRAFT] 06 p0077 N75-16 06 p0077 #75-16993

RAPE, T. A brief description of geological and geophysical exploration of the Marysville geothermal area 06 p0099 M75-20839 RASE, L. A. An engineering assessment of the hydrogen economy
08 p0180 A75-44814 OM, N. 5. Thermionic topping of electric power plants 08 p0189 A75-45973 RATAJCEAK, A. P. Terrestrial applications of PEP-encapsulated solar cell modules 06 p0054 A75-24258 RATE, J.
Solar generator and power systems for communication satellites

08 08 p0206 N75-31165 Processing [PB-236581/5] 06 p0077 N75-17004 BRANS, J. D.
Advances in space power generation
[IAP PAPER 74-086] 05 p0015 A75-13718 REAY, D. A. The heat pipe - Its development, and its aerospace applications 05 p0015, \$75-15054 REDDIEG, T. B. and distribution for HIUS application 08 p0207 #75-31573 [NASA-TH-X-58127] REDING, J. T. Energy consumption: Paper, stone/clay/glass/concrete, and food industries [PB-241926/5] 08 p0211 B75-3 08 p0211 B75-32607 Energy consumption: The primary metals and petroleum industries [PB-241990/1] 08 p0213 #75-33503 Pluctuations of electric power in MHD channels 07 p0110 A75-30949 REED, C. B. Puels, minerals, and human survival 07 p0117 A75-34850 REED, T. B.

Heat mirrors for solar-energy collection and radiation insulation 05 p0004 A75-10525 Sources and methods for methanol production RRIDER, R. Cryogenics safety in a hydrogen fuel society 06 p0061 A75-27973 RRILLY, J. J. An engineering-scale energy storage reservoir of iron titanium bydride 08 p0177 A75-44784 Metal hydrides as hydrogen storage media [BBL-16867] 05 p0030 B75-12440
Iron titanium hydride as a source of hydrogen fuel for stationary and automotive applications
[BBL-18651] 05 p0030 B75-12441 Metal hydrides as a source of hydrogen fuel [BNL-14804-R] 06 pt BRISS, B. H., JR. Hilliwatt fuel cell system for sensors 06 p0104 N75-20876 05 p0008 A75-10565 BRISTAD, G. B. Available energy conversion and utilization in the United States [ASME PAPER 74-WA/PWR-1] 08 p0166 A75-39349 BRESHAW, J. H. Bvaluation of advanced lift concepts and potential Bvaluation of advanced lift concepts and potential fuel conservation for short-haul aircraft [NASA-CR-2502] 06 p0073 N75-16557 Evaluation of advanced lift concepts and fuel conservative short-haul aircraft, volume 1 [NASA-CR-137525] 06 p0096 N75-20291 Bvaluation of advanced lift concepts and fuel conservative short-haul aircraft, volume 2 [HASA-CR-137526] 06 p0097 B75-20292 RRHTSCH, H.

Investigations and selection of components and

06 p0050 A75-24182

materials for flexible solar generator

RETHOLDS, E. H. Corrosion studies of materials for auxiliary equipment in MHD power plants 06 p0055 A75-24384 RETUOLDS, T. W. (MOLDS, T. W. Fuel-conservative engine technology 08 p0206 H75-31074 RIBE. F. L. Fusion reactors as future energy sources 05 p0011 A75-11735 RICHARDS, E. R. The use of solar cells in the lighthouse service 06 p0054 A75-24255 RICHARDSON, J. A. Environmental impact of a suitable nuclear power reactor used to provide a process heat system to synthesize fuels 08 p0179 A75-44808 RICHTER. R. Solar collector thermal power system. Volume 1: Preliminary technology systems study [AD-A000940] 06 p 06 p0091 N75-19339 Solar collector thermal power system. Volume 2: Development, fabrication, and testing of fifteen foot heat pipes
[AD-A000941] 06 p0091 N75-19340 [AD-A000941]
Solar collector thermal power system. Volume Basic study and experimental evaluation of thermal train components Volume 3: [AD-A000942] 06 p0091 N75-19341 RIBBER, M. projection by user within Petroleum
Administration for Defense (PAD) districts
07 p0151 N75-25322 US energy and fuel demand to 1985, a composite The role for Federal R and D on alternative automotive power systems [PB-238771/0] 07 p0137 N75-23391 RIKKBRS, R. P. A planning methodology for the analysis and design of wind-power systems 05 p0004. A75-10517 RILEY, R. K.
Puture United States demand patterns and the use of hydrogen 08 p0179 A75-44806 Production of gaseous fuel by pyrolysis of aunicipal solid waste [NASA-CR-141791] 07 p0140 N75-24105 RIPPEÈ, S. B. Demonstration plant, clean boiler fuels from coal.

Volume 3: Preliminary design/economics analysis
[PB-238529/2] 07 p0142 N75-24127 RITTERNAN, P. P. High energy density sintered plate type sealed nickel cadmium battery cells. I - The positive electrode/plaque relationships 05 p0008 A75-10569 RITTER, E. S.

Recent advances in components of space power systems
[IRP PAPER 74-083] 05 p0014 A75-13715 ROBB, W. A.

Determination of carbonate minerals of Green River formation oil shales, Piceance Creek Basin, Colorado [PB-240669/2] 07 p0159 N75-27554 ROBERTS, A. A.
Belium survey, a possible technique for locating geothermal reservoirs 07 p0118 A75-35438 BOBERTS, A. S., JR.
Investigation of current university research concerning energy conversion and conservation in small single-family dwellings 08 p0207 N75-31570 [BASA-CR-143430]
BOBERTS, C. C., JR.
Designing heat pipe heat sinks
[AIAA PAPER 75-724] 07 p0113 A75-32868
BOBERTS, T. G.
An electron beam initiated fusion neutron generator 06 p0045 A75-19657 [BASA-CR-143430] ROBERTSON, D. L. Industrial energy study of the Industrial chemicals group [PB-236322/4] 06 p0071 B75-16111

Data base for the industrial energy study of the industrial chemicals group [PB-237845/3] 06 p0087 N75-18732 BOBIN, M. A.

The action of EDF in the prevention of atmospheric pollution [BLL-CE-TRANS-6500- (9022.09)] 06 p0083 N75-17833 ROBINETTE, S. L.
Benefit-cost methodology study with example application of the use of wind generators [NASA-CR-134864] 08 p0207 | ROBINSON, P. H. Epitaxial silicon solar cell 08 p0207 #75-31571 06 p0056 175-25086 ROBISON. D. Energy and security: Implications for American policy [AD-785084] 05 p0032 N75-12857 ROCHELLE. W. C. The Energy Systems Optimization Computer Program /ESOP/ developed for Modular Integrated Utility Systems /MIUS/ analysis 05 p0006 A75-10551 RODGERS, R. J.
Applications of plasma core reactors to: terrestrial energy systems
[AIAA PAPER 74-1074] 05 p0010 A75-11281 ROEGIERS, J. C. Geothermal energy: A new application of rock mechanics
[LA-UR-74-821] 06 p0068 N75-16089 ROGACHEV, A. P.
Investigation of characteristics of magnetohydrodynamic generators in industrial power plants [AD-A008343] 07 p0149 N75-25307 ROGERS, F. C. Energy storage undergound 05 p0013 A75-12989 ROGERS, G. P. C. The energy perspective 05 p0019 A75-17000 ROGERS, J. D. Magnetic Energy Transfer and Storage (MBTS) program schedules for a Fusion Test Reactor (FTR) [LA-5748-MS] 06 p0106 N75-21097 ROGERS, R. H. Bultispectral data systems for energy related problems 07 p0118 A75-35464 Determine utility of ERTS-1 to detect and monitor area strip mining and reclamation

[E75-10327] 07 p0158 N75-27 07 p0158 N75-27515 ROHRNAN, C. A.
Energy and fixed nitrogen from agricultural residues [BNWL-SA-5070] 06 p0103 N75-20874 ROHRHABH, C. A. Methanol from forestry, municipal, and agricultural organic residues [BNWL-SA-5053] 06 p0085 N75-18702 ROH, P. E.
A commentary on solar energy 07 p0116 A75-34532 ROMANELLI, P. J. Electrical generating equipment and electric utility requirements for high-power wind generator systems 08 p0193 A75-46025 ROSA, R. Recent MHD generator testing at Avco Everett
Research Laboratory, Inc
[ASME PAPER 74-WA/ENER-7] 05 p0016 A 05 p0016 A75-16839 ROSA. R. J. MHD power generation 08 p0166 A75-39197 ROSS. P. N. The nuclear electric economy 08 p0180 A75-44817 ROSSBACH, R. J. A potassium topping cycle for public utility power plants
[AIAA PAPER 75-1235] 08 p0181 A75-45647 Potassium topping cycles for stationary power [MASA-CR-2518] 07 p0135 B75-22906
Development of low emission porous plate combustor for automotive gas turbine and Rankine cycle engines [PB-240776/5] 07 p0162 N75-27619

ROTE, J. Workshop on Fundamental Research	in Homogeneous	RUSWAK, J. J. The application of aerospace tech	nology in the
catalysis as Related to US Rne	ergy Problems	cryogenics field	
[PB-240177/6] ROTHFUS, R. R.	08 p0200 N75-28524	RUSSELL, J. L., JR.	06 p0048 A75-2323
Solar sea power [PB-235469/4]	05 p0038 B75-14284	A search for thermochemical water	r-splitting cycles 08 p0177 A75-4478
Solar sea power	-	RUSSELL, O. R.	
[PB-236997/3] ROTHWARP, A.	06 p0082 N75-17821	Remote sensing applied to mine su Experience in Pennsylvania and	the Midwest
CdS/Cu2S solar cells, their pote limitations	ential and	RUSSO, P. A.	07 p0121 A75-36809
ROTTY, R. H.	08 p0188 A75-45961	Operational testing of the high p thermoelectric generator /HPG-0	
Waste heat disposal from nuclear	power plants 07 p0158 N75-27324		05 p0003 A75-10505
[COH-75-10407/5] BOUKLOVE, P.		RUST, J. A. The UP6 Breeder - A solution to the upf Breeder - A solution to the upper s	the problems of
Performance testing of thermoele at JPL	-	nuclear power	08 p0187 A75-4595
ROWLEY, J. C.	05 p0002 A75-10503	RUTH, J. The modular solar energy satellit	e: Investigation
The initiatives of the Los Alamo Laboratory in the transfer of		on large solar cell surfaces in purpose of earth power supply	
technology	a new elcavation	[ILR-17-1974]	05 p0036 H75-1427
Rock melting technology and geot		The use of hydrogen in commercial	aircraft - An
ROY, H.	06 p0101 N75-20851	assessment :	05 p0006 A75-10542
On the future of jet propulsion transport aviation		A technology assessment of the hy concept	-
ROZAHOV, V. B.	06 p0058 A75-27777	A technology assessment of the hy	08 p0172 A75-42286 drogen economy
Laser thermonuclear fusion	07 p0112 A75-32617	concept	08 p0194 A75-46037
ROZHKOVA, H. M.	· · · · · · · · · · · · · · · · · · ·	RZAEV, P. P.	-
Design study of the energy chara thermionic electric power gene		Experience in setting up solar-en Azerbaidzhan	ergy survey for
and assemblies	06 p0064 A75-28893	REBER, K.	05 p0020 A75-17081
RUBI, V. Methane gas engines for commerci	al vehicles and	Certain problems of fuel consumpt transport	ion in air
busses	06 p0050 A75-23507	, -	05 p0011 A75-11372
RUBIN, B.	-	S	
Rationale for setting priorities technology research and develo		SAASKI, E. W.	
technology research and develo [UCRL-51511] RUBIN, E. J.		Arterial gas occlusions in operat [AIAA PAPER 75-657]	ing heat pipes 07 p0114 175-32915
technology research and develo [UCRL-51511] RUBIN, E. J. Nickel-cadmium cells [NASA-CR-143715]	pment	Arterial gas occlusions in operat [AIAA PAPER 75-657] A flexible cryogenic heat pipe [AIAA PAPER 75-658]	
technology research and develo [UCRL-51511] RUBIN, E. J. Nickel-cadmium_cells	pment 05 p0024 N75-10594 07 p0128 N75-21792	Arterial gas occlusions in operat [AIAA PAPER 75-657] A flexible cryogenic heat pipe [AIAA PAPER 75-658] SAATY, T. L. The study of priorities in the el	07 p0114 A75-32915 07 p0114 A75-32916
technology research and develor [UCRL-51511] RUBIN, E. J. Nickel-cadmium cells [NASA-CR-143715] RUCH, H. A. Heat pipe thermal recovery units RUDEY, R. A.	pment 05 p0024 N75-10594 07 p0128 N75-21792 08 p0194 A75-46041	Arterial gas occlusions in operat [AIAA PAPER 75-657] A flexible cryogenic heat pipe [AIAA PAPER 75-658] SAATY, T. L. The study of priorities in the el allocation problem [PB-239762/8]	07 p0114 A75-32915 07 p0114 A75-32916
technology research and develon [UCRL-51511] RUBIN, E. J. Nickel-cadmium cells [NASA-CR-143715] RUCH, M. A. Heat pipe thermal recovery units RUDEY, R. A. The long term energy problem and	pment 05 p0024 N75-10594 07 p0128 N75-21792 08 p0194 A75-46041	Arterial gas occlusions in operat [AIAA PAPER 75-657] A flexible cryogenic heat pipe [AIAA PAPER 75-658] SAATY, T. L. The study of priorities in the el allocation problem [PB-239762/8] SABINS, P. F., JR. Oil exploration needs for digital	07 p0114 A75-32915 07 p0114 A75-32916 ectrical energy 07 p0156 B75-26516
technology research and develor [UCRL-51511] RUBIN, E. J. Nickel-cadmium cells [NASA-CR-143715] RUCH, H. A. Heat pipe thermal recovery units RUDEY, E. A. The long term energy problem and RUDINS, G. US and Soviet MHD technology: A	pment 05 p0024 N75-10594 07 p0128 N75-21792 08 p0194 A75-46041 aeronautics 08 p0202 N75-29012	Arterial gas occlusions in operat [AIAA PAPER 75-657] A flexible cryogenic heat pipe [AIAA PAPER 75-658] SAMTY, T. L. The study of priorities in the el allocation problem [PB-239762/8] SABINS, F. F., JR. Oil exploration needs for digital imagery	07 p0114 A75-32915 07 p0114 A75-32916 ectrical energy 07 p0156 B75-26516
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technology research and develor [UCRL-51511] RUBIN, E. J. Nickel-cadmium cells [NASA-CR-143715] RUCH, M. A. Heat pipe thermal recovery units RUDEY, R. A. The long term energy problem and RUDINS, G. US and Soviet MHD technology: A overview [AD-A004614] RUDBICKI, M. I. Development and evaluation of a energy conversion system [PB-239086/2] RUELLE, G. Hain problems met in the study o	pment 05 p0024 N75-10594 07 p0128 N75-21792 08 p0194 A75-46041 aeronautics 08 p0202 N75-29012 Comparative 07 p0162 N75-27901 Stirling-Cycle 07 p0136 N75-22918	Arterial gas occlusions in operat [AIAA PAPER 75-657] A flexible cryogenic heat pipe [AIAA PAPER 75-658] SANTY, T. L. The study of priorities in the el allocation problem [PB-239762/8] SABINS, F. F., JR. Oil exploration needs for digital imagery SACHS, P. Design and qualification of the C blanket SACKETT, L. L. Effect of attitude constraints on	07 p0114 A75-32916 07 p0114 A75-32916 ectrical energy 07 p0156 B75-26516 processing of 05 p0001 A75-10437 TS solar cell 06 p0053 A75-24248
technology research and develor [UCRL-51511] RUBIN, E. J. Nickel-cadmium cells [NASA-CR-143715] RUCH, H. A. Heat pipe thermal recovery units RUDEY, R. A. The long term energy problem and RUDINS, G. US and Soviet MHD technology: A overview [AD-A004614] RUDNICKI, H. I. Development and evaluation of a energy conversion system [PB-239086/2] RUELLE, G. Main problems met in the study o generators RUFEH, P.	pment 05 p0024 N75-10594 07 p0128 N75-21792 08 p0194 A75-46041 aeronautics 08 p0202 N75-29012 Comparative 07 p0162 N75-27901 Stirling-Cycle 07 p0136 N75-22918 f cryogenic 06 p0061 A75-27962	Arterial gas occlusions in operat [AIAA PAPER 75-657] A flexible cryogenic heat pipe [AIAA PAPER 75-658] SAATY, T. L. The study of priorities in the el allocation problem [PB-239762/8] SABINS, P. F., JR. Oil exploration needs for digital imagery SACHS, P. Design and qualification of the C blanket SACKETT, L. L. Effect of attitude constraints on geocentric transfers [AIAA PAPER 75-350] SADEK, S. B. Urban waste energy resources [AIAA PAPER 75-632]	07 p0114 A75-32916 07 p0114 A75-32916 ectrical energy 07 p0156 B75-26516 processing of 05 p0001 A75-10437 TS solar cell 06 p0053 A75-24248 solar-electric 06 p0055 A75-24957
technology research and develor [UCRL-51511] RUBIN, E. J. Nickel-cadmium cells [NASA-CR-143715] RUCH, M. A. Heat pipe thermal recovery units RUDEY, R. A. The long term energy problem and RUDINS, G. US and Soviet MHD technology: A overview [AD-A004614] RUDHICKI, M. I. Development and evaluation of a energy conversion system [PB-239086/2] RUELLE, G. Main problems met in the study o generators RUFEH, P. Electrodes for thermionic energy	pment 05 p0024 N75-10594 07 p0128 N75-21792 08 p0194 A75-46041 aeronautics 08 p0202 N75-29012 Comparative 07 p0162 N75-27901 Stirling-Cycle 07 p0136 N75-22918 f cryogenic 06 p0061 A75-27962	Arterial gas occlusions in operat [AIAA PAPER 75-657] A flexible cryogenic heat pipe [AIAA PAPER 75-658] SAMTY, T. L. The study of priorities in the el allocation problem [PB-239762/8] SABINS, F. F., JR. Oil exploration needs for digital imagery SACHS, P. Design and qualification of the C blanket SACKETT, L. L. Effect of attitude constraints on geocentric transfers [AIAA PAPER 75-350] SADEK, S. B. Urban waste energy resources [AIAA PAPER 75-632] Fuel gas production from solid wa [PB-238068/1]	07 p0114 A75-32916 07 p0114 A75-32916 ectrical energy 07 p0156 B75-26516 processing of 05 p0001 A75-10437 TS solar cell 06 p0053 A75-24248 solar-electric 06 p0055 A75-24957
technology research and develor [UCRL-51511] RUBIN, E. J. Nickel-cadmium cells [NASA-CR-143715] RUCE, H. A. Heat pipe thermal recovery units RUDEY, R. A. The long term energy problem and RUDINS, G. US and Soviet MHD technology: A overview [AD-A004614] RUDBICKI, H. I. Development and evaluation of a energy conversion system [PB-239086/2] RUELLE, G. Main problems met in the study o generators RUFEH, P. Electrodes for thermionic energy RUINA, D. Industrial energy studies of gro	pment 05 p0024 N75-10594 07 p0128 N75-21792 08 p0194 A75-46041 aeronautics 08 p0202 N75-29012 Comparative 07 p0162 N75-27901 Stirling-Cycle 07 p0136 N75-22918 f cryogenic 06 p0061 A75-27962 conversion 08 p0188 A75-45957	Arterial gas occlusions in operat [AIAA PAPER 75-657] A flexible cryogenic heat pipe [AIAA PAPER 75-658] SANTY, T. L. The study of priorities in the el allocation problem [PB-239762/8] SABINS, F. F., JR. Oil exploration needs for digital imagery SACHS, P. Design and qualification of the C blanket SACKETT, L. L. Effect of attitude constraints on geocentric transfers [AIAA PAPER 75-350] SADEK, S. B. Urban waste energy resources [AIAA PAPER 75-632] Puel gas production from solid wa [PB-238068/1] SADOWHIKOV, Y. M. Propulsion units for high speed s	07 p0114 A75-32916 07 p0114 A75-32916 ectrical energy 07 p0156 B75-26516 processing of 05 p0001 A75-10437 TS solar cell 06 p0053 A75-24248 solar-electric 06 p0055 A75-24957 06 p0062 A75-28598 ste 06 p0095 B75-19843
technology research and develor [UCRL-51511] RUBIN, E. J. Nickel-cadmium cells [NASA-CR-143715] RUCE, M. A. Heat pipe thermal recovery units RUDEY, R. A. The long term energy problem and RUDINS, G. US and Soviet MHD technology: A overview [AD-A004614] RUDBICKI, M. I. Development and evaluation of a energy conversion system [PB-239086/2] RUELLE, G. Main problems met in the study o generators RUFEH, P. Electrodes for thermionic energy RUINA, D. Industrial energy studies of gro transportation, volume 1 [PB-236016/2] Industrial energy studies of gro	pment 05 p0024 N75-10594 07 p0128 N75-21792 08 p0194 A75-46041 aeronautics 08 p0202 N75-29012 Comparative 07 p0162 N75-27901 Stirling-Cycle 07 p0136 N75-22918 f cryogenic 06 p0061 A75-27962 conversion 08 p0188 A75-45957 und freight 06 p0069 N75-16099 und freight	Arterial gas occlusions in operat [AIAA PAPER 75-657] A flexible cryogenic heat pipe [AIAA PAPER 75-658] SAATY, T. L. The study of priorities in the el allocation problem [PB-239762/8] SABINS, P. F., JR. Oil exploration needs for digital imagery SACHS, P. Design and qualification of the C blanket SACKETT, L. L. Effect of attitude constraints on geocentric transfers [AIAA PAPER 75-350] SADEK, S. B. Urban waste energy resources [AIAA PAPER 75-632] Fuel gas production from solid wa [PB-238068/1] SADOWNIKOV, I. M.	07 p0114 A75-32916 07 p0114 A75-32916 ectrical energy 07 p0156 B75-26516 processing of 05 p0001 A75-10437 TS solar cell 06 p0053 A75-24248 solar-electric 06 p0055 A75-24957 06 p0062 A75-28598 ste 06 p0095 B75-19843 hips 07 p0148 B75-25295 for fusion plants
technology research and develor [UCRL-51511] RUBIN, E. J. Nickel-cadmium cells [NASA-CR-143715] RUCH, H. A. Heat pipe thermal recovery units RUDEY, R. A. The long term energy problem and RUDINS, G. US and Soviet MHD technology: A overview [AD-A004614] RUDBICKI, H. I. Development and evaluation of a energy conversion system [PB-239086/2] RUELLE, G. Hain problems met in the study o generators RUFH, P. Electrodes for thermionic energy RUINA, D. Industrial energy studies of gro transportation, volume 1 [PB-236016/2] Industrial energy studies of gro transportation, volume 2: Ap	pment 05 p0024 N75-10594 07 p0128 N75-21792 08 p0194 A75-46041 aeronautics 08 p0202 N75-29012 Comparative 07 p0162 N75-27901 Stirling-Cycle 07 p0136 N75-22918 f cryogenic 06 p0061 A75-27962 conversion 08 p0188 A75-45957 und freight 06 p0069 N75-16099 und freight pendices	Arterial gas occlusions in operat [AIAA PAPER 75-657] A flexible cryogenic heat pipe [AIAA PAPER 75-658] SAMIY, T. L. The study of priorities in the el allocation problem [PB-239762/8] SABINS, F. F., JR. Oil exploration needs for digital imagery SACHS, P. Design and qualification of the C blanket SACKETT, L. L. Effect of attitude constraints on geocentric transfers [AIAA PAPER 75-350] SADEK, S. B. Urban waste energy resources [AIAA PAPER 75-632] Puel gas production from solid wa [PB-238068/1] SADOVNIKOV, I. B. Propulsion units for high speed s [JPRS-64897] SAGER, P. H., JR. Thermal power conversion systems	07 p0114 A75-32916 07 p0114 A75-32916 ectrical energy 07 p0156 B75-26516 processing of 05 p0001 A75-10437 TS solar cell 06 p0053 A75-24248 solar-electric 06 p0055 A75-24957 06 p0062 A75-28598 ste 06 p0095 B75-19843 hips 07 p0148 B75-25295
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technology research and develor [UCRL-51511] RUBIN, E. J. Nickel-cadmium cells [NASA-CR-143715] RUCH, M. A. Heat pipe thermal recovery units RUDEY, R. A. The long term energy problem and RUDINS, G. US and Soviet MHD technology: A overview [AD-A004614] RUDBICKI, M. I. Development and evaluation of a energy conversion system [PB-239086/2] RUELLE, G. Hain problems met in the study o generators RUFEH, P. Electrodes for thermionic energy RUINA, D. Industrial energy studies of gro transportation, volume 1 [PB-236016/2] Industrial energy studies of gro transportation. Volume 2: Ap [PB-236017/0] RUIN, B. L. Design and test of a flywheel en- for spacecraft application RUKWIED, BR.	pment 05 p0024 N75-10594 07 p0128 N75-21792 08 p0194 A75-46041 aeronautics 08 p0202 N75-29012 Comparative 07 p0162 N75-27901 Stirling-Cycle 07 p0136 N75-22918 f cryogenic 06 p0061 A75-27962 conversion 08 p0188 A75-45957 und freight 06 p0069 N75-16099 und freight pendices 06 p0069 N75-16100 ergy storage unit 08 p0193 A75-46028	Arterial gas occlusions in operat [AIAA PAPER 75-657] A flexible cryogenic heat pipe [AIAA PAPER 75-658] SAMTY, T. L. The study of priorities in the el allocation problem [PB-239762/8] SABINS, F. F., JR. Oil exploration needs for digital imagery SACHS, P. Design and qualification of the C blanket SACKETT, L. L. Effect of attitude constraints on geocentric transfers [AIAA PAPER 75-350] SADEK, S. B. Urban waste energy resources [AIAA PAPER 75-632] Puel gas production from solid wa [PB-238068/1] SADOWNKOV, I. B. Propulsion units for high speed s [JPRS-64897] SACER, P. H., JR. Thermal power conversion systems SAMA, H. Some aspects of a solar battery s: for irrigation in remote sun-ric Performance of a solar battery us: quasi-cylindrical array of plane	07 p0114 A75-32916 07 p0114 A75-32916 ectrical energy 07 p0156 B75-26516 processing of 05 p0001 A75-10437 TS solar cell 06 p0053 A75-24248 solar-electric 06 p0055 A75-24957 06 p0062 A75-28598 ste 06 p0095 B75-19843 hips 07 p0148 B75-25295 for fusion plants 08 p0187 A75-45953 system and its use ch regions 06 p0054 A75-24256 ing
technology research and develor [UCRL-51511] RUBIN, E. J. Nickel-cadmium cells [NASA-CR-143715] RUCE, H. A. Heat pipe thermal recovery units RUDEY, R. A. The long term energy problem and RUDINS, G. US and Soviet MHD technology: A overview [AD-A004614] RUDHICKI, H. I. Development and evaluation of a energy conversion system [PB-239086/2] RUELLE, G. Main problems met in the study o generators RUFEH, P. Electrodes for thermionic energy RUINA, D. Industrial energy studies of gro transportation, volume 1 [PB-236016/2] Industrial energy studies of gro transportation. Volume 2: Ap [PB-236017/0] RUIN, B. L. Design and test of a flywheel enfor spacecraft application RUEWIRD, MB. Investigations and selection of ematerials for flexible solar gro	pment	Arterial gas occlusions in operat [AIAA PAPER 75-657] A flexible cryogenic heat pipe [AIAA PAPER 75-658] SANTY, T. L. The study of priorities in the el allocation problem [PB-239762/8] SABINS, F. F., JR. Oil exploration needs for digital imagery SACRS, P. Design and qualification of the C blanket SACRETT, L. L. Effect of attitude constraints on geocentric transfers [AIAA PAPER 75-350] SADEK, S. B. Urban waste energy resources [AIAA PAPER 75-632] Puel gas production from solid wa [PB-238068/1] SADOVHIKOV, I. M. Propulsion units for high speed s [JPRS-64897] SAGER, P. H., JR. Thermal power conversion systems: SAMA, H. Some aspects of a solar battery us: Performance of a solar battery us:	07 p0114 A75-32916 07 p0114 A75-32916 ectrical energy 07 p0156 B75-26516 processing of 05 p0001 A75-10437 TS solar cell 06 p0053 A75-24248 solar-electric 06 p0055 A75-24957 06 p0062 A75-28598 ste 06 p0095 B75-19843 hips 07 p0148 B75-25295 for fusion plants 08 p0187 A75-45953 system and its use ch regions 06 p0054 A75-24256 ing
technology research and develor [UCRL-51511] RUBIN, E. J. Nickel-cadmium cells [NASA-CR-143715] RUCE, H. A. Heat pipe thermal recovery units RUDEY, R. A. The long term energy problem and RUDINS, G. US and Soviet MHD technology: A overview [AD-A004614] RUDHICKI, H. I. Development and evaluation of a energy conversion system [PB-239086/2] RUELLE, G. Main problems met in the study o generators RUFEH, P. Electrodes for thermionic energy RUINA, D. Industrial energy studies of gro transportation, volume 1 [PB-236016/2] Industrial energy studies of gro transportation. Volume 2: Ap [PB-236017/0] RUIN, B. L. Design and test of a flywheel enfor spacecraft application RUEWIRD, MB. Investigations and selection of ematerials for flexible solar gro	pment 05 p0024 N75-10594 07 p0128 N75-21792 08 p0194 A75-46041 aeronautics 08 p0202 N75-29012 Comparative 07 p0162 N75-27901 Stirling-Cycle 07 p0136 N75-22918 f cryogenic 06 p0061 A75-27962 conversion 08 p0188 A75-45957 und freight 06 p0069 N75-16099 und freight pendices 06 p0069 N75-16100 ergy storage unit 08 p0193 A75-46028 components and	Arterial gas occlusions in operat [AIAA PAPER 75-657] A flexible cryogenic heat pipe [AIAA PAPER 75-658] SAMTY, T. L. The study of priorities in the el allocation problem [PB-239762/8] SABINS, F. F., JR. Oil exploration needs for digital imagery SACHS, P. Design and qualification of the C blanket SACKETT, L. L. Effect of attitude constraints on geocentric transfers [AIAA PAPER 75-350] SADEK, S. B. Urban waste energy resources [AIAA PAPER 75-632] Puel gas production from solid wa [PB-238068/1] SADOWNKOV, I. B. Propulsion units for high speed s [JPRS-64897] SACER, P. H., JR. Thermal power conversion systems SAMA, H. Some aspects of a solar battery s: for irrigation in remote sun-ric Performance of a solar battery us: quasi-cylindrical array of plane	07 p0114 A75-32916 07 p0114 A75-32916 ectrical energy 07 p0156 B75-26516 processing of 05 p0001 A75-10437 TS solar cell 06 p0053 A75-24248 solar-electric 06 p0055 A75-24957 06 p0062 A75-28598 ste 06 p0095 B75-19843 hips 07 p0148 B75-25295 for fusion plants 08 p0187 A75-45953 system and its use ch regions 06 p0054 A75-24256 ing e mirrors as a 07 p0109 A75-29478

CITTURE B D	SARRADIN, J.
SALIEVA, R. B. Some generalizations of sample water-supply	Fundamental research on the selection of new
calculations for solar-powered pumping plants 05 p0020 A75~17077	electrochemical generators of medium power 06 p0060 175-27827
Complex utilization of a solar power plant	SASSONE, P. G.
07 p0116 A75-34320	Benefit-cost methodology study with example
Principles of a composite study involving combined use of solar and wind energy	application of the use of wind generators [NASA-CR-134864] 08 p0207 H75-31571
07 p0122 175-37160	SATER, B. L.
Generalizations of composite studies involving combined use of wind and solar energy	The high intensity solar cell - Key to low cost photovoltaic power
07 p0122 A75-37161	07 p0123 A75-37400
Comprehensive utilization of a solar installation 08 p0170 A75~41533	The high intensity solar cell: Key to low cost photovoltaic power
Estimates of the reliability of energy-supply	[NASA-TM-X-71718] 07 p0140 N75-24108
systems employing solar energy 08 p0181 A75~45064	SATO, S. Production of hydrogen from water using nuclear
SALHOW, J. D.	energy. A review
Social and environmental context of the hydrogen	[JARRI-H-5642] 06 p0093 H75-19824
economy 08 p0179 A75~44807	SAUNDERS, A. P. Conservation and better utilization of electric
SALSANO, A.	power by means of thermal energy storage and
Power generation and efficiency in Gals traveling-wave amplifiers	solar heating. Solar collector performance studies
07 p0110 A75~30750	[PB-239355/1] 07 p0150 N75-25320
SALTER, B. H. Solar residential electrification with high	Solar collector performance studies [PB-239758/6] 07 p0156 N75-26520
performance heat engines	SAVADELIS, J.
[AIAA PAPER 75-1239] 08 p0182 A75-45651 SALTER, S.	An analysis of constraints on increased coal production
Characteristics of a rocking wave power device	[PB-240613/0] 07 p0157 x75-26525
06 p0062 A75~28450 SALEANO, P. J.	SAVAGE, S. B. An analytical and experimental investigation of a
Energy storage for utilities via hydrogen systems	laboratory solar pond model
05 p0005 A75~10537 The Hydrogen Economy - A utility perspective	[ASME PAPER 74-WA/SOL-3] 05 p0019 A75-16886 Bffect of diffusion on concentration profiles in a
05 p0014 A75-12998	solar pond
The technology and economies of hydrogen production from fusion reactors	08 p0167 A75-39412 SAVINO, J.
08 p0176 A75-44767	Plans and status of the NASA-Lewis Research Center
On the role of hydrogen in electric energy storage 08 p0178 A75-44797	wind energy project 08 p0197 A75-47802
The economic incentive for introducing electric	Plans and status of the NASA-Lewis Research Center
storage devices into the national energy system	wind energy project
08 p0184 A75-45929 High efficiency power conversion cycles using	[NASA-TH-X-71701] 07 p0128 N75-21795 SAVINO, J. H.
hydrogen compressed by absorption on metal	Wind power
hydrides 08 p0194 A75-46034	07 p0111 A75-31273 SABYER, V. K.
Energy storage for utilities via hydrogen systems	Relationships of earth fracture systems to
[BNL-19266] 06 p0086 H75-18725 Hydrogen storage and production in utility systems	productivity of a gas storage reservoir [PB-237894/1] 06 p0089 H75-18759
[BBL-18920] 06 p0097 N75-20580	SAITOB, J. C.
Hydrogen economy: A utility perspective [BNL-19267] 06 p0103 H75-20870	Industrial energy study of the Industrial chemicals group
Hydrogen storage and production in utility systems	[PB-236322/4] 06 p0071 N75-16111
[BML-19249] 06 p0103 M75-20873 Synthetic fuels from fusion reactors	Data base for the industrial energy study of the industrial chemicals group
[BNL-19351] 06 p0106 N75-21098	[PB-237845/3] 06 p0087 N75-18732
Sanara, G. A. Solar energy: Sandia's photovoltaic research	SAYED, B. H. Reliability of low cost Cu2S/CdS solar cells for
program	large scale conversion of solar to electrical
[SLA-74-281] 05 p0034 N75-13392 SAHOILOV, E. M.	energy 08 p0174 A75-44754
Devices based on thermoelectrical phenomena	SCALA, S. H.
[AD-783821] 05 p0026 N75-10836 SAEPSON, H. T.	Considerations regarding a utilization of solar energy
Solar cell and array standardization for Air Porce	06 p0050 A75-23510
spacecraft 05 p0002 175-10486	SCHAPPER, W. A. Benefit-cost methodology study with example
SAMTOR, H. R.	application of the use of wind generators
Glass recycling and reuse [PB-239674/5] 08 p0200 N75-28536	[NASA-CR-134864] 08 p0207 H75-31571 SCHAPFBATH, N.
SAN MARTIN, R. L.	Hydrogen as fuel for internal-combustion engines
Performance of the thermal trap solar collector [ASME PAPER 74-WA/SOL-5] 05 p0019 A75-16888	06 p0050 A75-23508 SCHAMPEIN, M. J.
Modeling of solar absorption air conditioning	Cryogenic properties of Fe-En and Fe-En-Cr alloys
07 p0117 A75-34932 SAMPIETRO, A.	[LBL-2764] 06 p0066 N75-15781 SCHAPER, J.
Proceedings of the Workshop on Bio-Solar Conversion	Hydrazine gas generation for pressure gas feed
[PB-236142/6] 06 p0069 875-16096, SABITEV, V. H.	systems 08 p0166 A75-39134
Electronic model of the U-25 device	SCHECHTER, R. S.
06 p0081 N75-17794 SARKES, L. A.	Basic research needs for tertiary oil recovery: Proceedings of a National Science Poundation
A survey of LNG technological needs in the USA:	Workshop
1974 to beyond 2000	[PB-236726/6] 06 p0066 N75-16072

05 p0030 N75-12435

06 p0066 N75-16072

SCHEEL, H. W. Latest developments of the circular solar array 06 p0053 A75-24246	SCHUBERT, P. H. Hydrogen generation through static-feed water electrolysis
SCHERT, W. W.	08 p0177 A75-4477
Development of lithium/sulfur cells for application to electric automobiles	SCHUBLER, D. G. Solar energy: Sandia's photovoltaic research
[COMP-740805-7] 06 p0094 N75-19829 SCHERTZ, U. U.	
Development of high specific energy batteries for electric vehicles	SCHUH, R. M. Report on studies of space to earth microwave
[AHL-8058] 06 p0076 N75-16990 SCHIEFELBEIR, G. P.	power transmission systems [IAP PAPER 75-005] 08 p0183 A75-4581
A process for cleaning and removal of sulfur compounds from low Btu gases	SCHULER, D. G. Integration of photovoltaic and solar thermal
[PB-236522/9] 06 p0065 N75-15768 SCHIPPHACHER, S. A.	energy conversion systems [SAND-74-0093] 06 p0076 N75-1699
Bydrogen-future fuel-A bibliography (with emphasis on cryogenic technology)	SCHULER, K. W. Mechanical properties of oil shale from Anvil
[CON-75-10289/7] 07 p0155 ¥75-26509	Point under conditions of uniaxial compression
SCHILLING, H. D. Coal refining	[SAND-74-0035] 06:p0092 N75-1939 SCHULMAN, P.
: [ORNL-TR-2827] 06 p0086 N75-18724	The energy crises
SCHIBBL, W. P., JR. The Solar Community - Energy for residential	O8 p0179 A75-4481
heating, cooling, and electrical power	Energy supply in a closed cycle
06 p0059 A75-27785 Solar incidence factor and other geometric considerations of solar energy collection	06 p0049 175-2350 Nuclear water splitting and high temperature reactors
[SAND-74-26] 05 p0034 N75-13390 Axial temperature differential analysis of linear	08 p0175 A75-4475 SCHULTZ, H. H.
focused collectors for solar power [SLA-74-5078] 05 p0036 N75-14268	Deployable Symphonie solar generator
Sizing of focused solar collector fields with specified collector tube inlet temperature	SCHUMANN, P. A. Cost effective designing for the economic RTG
[SIA-74-5288] 06 p0094 N75-19832 SCHLEMKER, H. V.	05 p0003 A75-1050
Nuclear district-heating and nuclear long-distance energy	Aerodynamic design of a free power turbine for a 75 KW gas turbine automotive engine
[JUL-1077] 06 p0093 N75-19828 SCHMALHOPER, G.	
Investigation of the technology and performance of lithium doped solar cells	Economic modeling and energy policy planning 06 p0079 N75-1721
06 p0052 A75-24219	SCHWARTZ, P.
SCHAIDT, C. E. Hass spectrometric analysis of product water from	Advanced nuclear research [GPO-41-253] 05 p0026 N75-1076
coal gasification [PB-240835/9] 07 p0158 N75-27120	
SCHRIDT, R. A. Rechanical properties of oil shale from Anvil	Selective emitters for energy conversion [AD-784449] 05 p00-26 N75-1060
Point under conditions of uniaxial compression	SCHWARTZ, W. A.
[SAND-74-0035] 06 p0092 N75-19390 SCHRITT, J.	Engineering and cost study of air pollution control for the petrochemical industry, volume
A regional energy information system for	3: Ethylene dichloride manufacture by
Minnesota: A preliminary design [PB-241124/7] 08 p0205 H75-30944	
SCHBEIDER, R. T. Physics and potentials of fissioning plasmas for	SCHWARZ, R. F. Concentrated photovoltaic power generation systems
space power and propulsion	08 p0 188 A75-4596
[IAP PAPER 74-087] 05 p0015 A75-13719 SCH#ELL, J. B.	SCHWEHK, P. C. Physics and potentials of fissioning plasmas for
Papers and proceedings of two energy crisis seminars [PB-239164/7] 07 p0156 H75-26513	space power and propulsion
SCHOCK, A.	Gaseous fuel nuclear reactor research
Light-weight radioisotope thermoelectric generator design	08 p0168 A75-4017 SCHWINDT, H. J.
05 p0003 A75-10508 Buclear heat source for cryogenic refrigerators in	Utilisation of waste heat from inductive melting installations
space 08 p0191 A75-46006	[BLL-OA-TRANS-949-(6196.3)] 07 p0153 H75-2649. SCOTT-MONCK, J.
SCHORBANN, F. H. Char oil energy development	Development and space qualification of new high-efficiency silicon solar cells
[PB-234018/0] 05 p0040 H75-15173	06 p0052 A75-2421
SCHORA, F. C., JR. Progress in coal gasification 05 n0012 875-12002	Char oil energy development
05 p0013 175-12993 SCHOTT, G. J.	[PB-234018/0] 05 p0040 B75-1517 SCRUGGS, P. P., JR.
<pre>gnergy efficiency of current intercity passenger transportation modes [AINA PAPER 75-314] 06 p0047 A75=22513</pre>	Coal in Alabama [PB-236583/1] 06 p0088 #75-1873
SCHEELDER, R. B.	Fatural gas in Alabama [PB-236582/3] 06 p0088 m75-1873
application of technology from the Rover program and related developments	SBAGER, D. R. In situ oil shale: A cost sensitivity analysis
· [L1-558] 05 p0028 875-11468 SCHRENK, G. 1.	[SAND-74-0146] 06 p0087 175-1872 SEBO, S. A.
Solar thermal absorption heat pump breakeven coefficient of performance	The utilization of ocean energy for electrical energy generation
[ASMR PAPER 74-WA/RRER-2] 05 p0015 A75-16834	

DERSONAL AUTROR THORY SHRRHAM. A.

SBIGER, H. H.

High energy density sintered plate type sealed

nickel cadmium battery cells. I - The positive SHARKO, J. R. An econometric analysis of fuel selection for power generation 06 p0055 A75-24751 05 p0008 A75-10569 SHARMA, R. J.
Path to self-sufficiency directions and constraints High energy density sintered plate type nickel-cadmium battery cells. II -[PB-239099] 07 p0142 N75-24128 SHATAS, R. A.
An electron beam initiated fusion neutron generator
06 p0045 A75-19657 Electrochemical impregnation methods to produce nickel oxide electrodes 05 p0008 A75-10570 SELCUE, H. K Energy and security: Implications for American Solar stills for agricultural purposes 07 p0115 175-33972 policy [AD-785084] 05 p0032 N75-12857 Advanced heat source concepts SHAW, H. Bvaluation of pollution control in fossil fuel conversion processes: Gasification. Section 1: [BLH-2134] 05 p0024 N75-10591 SELUK, D.

Hot side heat exchanger for an ocean thermal Lurgi process [PB-237694/5] 06 p0096 N75-19880 difference power plant SHAW, R.

Alternative strategies for optimizing energy supply, distribution, and consumption systems on Naval bases. Volume 3: Assessment of total 05 p0004 A75-10527 US p0004 A75-10527

Hot water hydraulics of the Gulf Stream sited OTGB

[PB-242151/9] 08 p0213 M75-33502

SEMBROVICE, v. v.

Further development of scientific research in the field of geology and of the survey and exploration of potvolons and conenergy system applications at Naval facilities
[AD-A003590] 08 p0202 N75-29550 exploration of petroleum and gas SHAW, T. L. [JPRS-63414] 05 p0027 N75-11410 Optimising pumped storage with tidal power in an SRND. H. V. estuary
[ASME PAPER 74-WA/PWR-7] Determining potential solar power sites in western hemisphere ocean and land areas based upon satellite observations of cloud cover 05 n0018 A75-16881 Efficient CuInSe2/CdS solar cells 07 p0118 A75-35461 07 p0119 A75-36274 SHCHEGOLEV, G. H.
Thermal diagrams of thermoelectrical devices
[AD-787420] 07 p0135 N Thick semiconductor films for photothermal solar 07 p0135 N75-22911 energy conversion 08 p0165 A75-38956 Chemical vapor deposition research for fabrication A, W. F. Lighter than air - A look at the past, a look at of solar energy convertors the possibilities [PB-235481/9] 05 p0041 N75-15185 06 p0056 A75-25995 Research applied to solar-thermal power systems: Chemical vapor deposition research for SHERBAN, T. V.
Coal combustion and desulfurization in a rotating fabrication of solar energy convertors fluidized bed reactor [PB-234565/0] 05 p0041 N75-15186 [BNL-19308] 07 p0129 N75-21799 Chemical vapor deposition research for fabrication SHEIBLEY, D. W.

Trace elements by instrumental neutron activation
- analysis for pollution monitoring of solar energy convertors [PB-236189/7] 06 p0072 N75-16119 08 p0 166 A75-39335 Chemical vapor deposition research for fabrication SHEINBAUM, I.
Direct contact heat exchangers in geothermal power of solar energy converters [PB-238947/6] 07 p0143 N75-24137 production Symposium on the Material Science Aspects of Thin [ASHE PAPER 75-HT-52] SHELKOV, B. H. Film Systems for Solar Energy Conversion
[PB-239270/2] 07 p0144 N75-24150 08 p0196 A75-47525 SEVIAN, W.

Synthetic fuels from fusion reactors
[BNL-19351] 06 Problems of direct conversion of thermal and oblems of direct conversion of nuclear energy to electric energy 07 p0120 A75-36415 06 p0106 N75-21098 EBL-1933)
SEVIAN, W. A.
The technology and economies of hydrogen production from fusion reactors

08 p0176 A75-44767 SHELKOV, Y. B.
Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17792
Experience in the first step of the mastery of the SHALAR, A. Electrical energy allocations at Navy and Marine U-25 device Corps bases [AD-A009821] 06 p0081 N75-17793 08 p0211 N75-32598 Electronic model of the U-25 device SHANKLIN, R. V. 06 p0081 875-17794 SHELTOH, H.
Study on electrofluid dynamic power generation
[AD-A004762] 07 p0155 B75-26507 Development of the KIVA-I MHD open cycle generator 07 p0124 A75-37686 SHARAPI, A. SH. A hearly perfect solar energy concentrator made up of tapered mirror facets with constant SHELTON, J. Underground storage of heat in solar heating systems 07 p0115 175-33975 transverse curvature 08 p0180 A75-45062 Study on parameter variations for solar powered lithium bromide absorption cooling 08 p0186 A75-45938 Analysis of thermochemical water-splitting cycles 08 p0177 A75-44781 Utilization of hydrogen as an appliance fuel SHEPHERD, B. P. Energy consumption: Paper, 08 p0178 A75-44794 SHARIPOVA, M. stone/clay/glass/concrete, and food industries
[PB-241926/5] 08 p0211 N75-3 [FB-241926/5] 08 p0 211 N75-32607
Energy consumption: The primary metals and petrology industrial Determination of some thermophysical characteristics of a solar-type pebble accumulator 07 p0116 A75-34317 petroleum industries Determination of some thermophysical properties of pebble-type solar heat accumulators FB-241990/1] Q8 p0213 N75-33503 SHEPSHELOVICE. H. Thrust vector control by magnetic field [IAF PAPER 75-027] 08 p0 08 p0 183 A75-45822 SHARKBY, A. G., JR. mass spectrometric analysis of product water from SHERMAN, A. coal gasification [PB-240835/9] Cryogenic heat pipe experiment - Flight performance onboard a sounding rocket [AIBA PAPER 75-729] 07 p0 07 p0158 N75-27120

07 p0113 A75-32872

SHERMAN, J. W.	SIEGAL, B. S.
Acoustic array methods for instrumentation of in situ coal gasification	The detection of geothermal areas from Skylab thermal data
[UCID-16591] 06 p0104 #75-20875	[MASA-CR-143133] 07 p0158 H75-27540
SHERMAZARIAN, IA. T. A technique for calibrating photometric curves obtained in solar concentrator tests	SILIF, L. L. Temperature sensor for photoelectric energy converters
08 p0180 A75-45060	06 p0057 A75-26712
SHERREM, D. C. Process environment effects on heat pipes for	Photoelectric energy converter temperature sensor 07 p0122 A75-37163
fluid-bed gasification of coal [LA-UR-74-984] 05 p0029 B75-12252	SILVER, A. N. Energy Delta: Supply vs. demand; Proceedings of
SHETHOLIE, A. Y. Prospects for magnetohydrodynamic electric power	the Energy Symposium, San Francisco, Calif., February 25-27, 1974
plants in power engineering	06 p0059 a75-27778
06 p0081 H75-17791 Experience in the first step of the mastery of the U-25 device	SILVESTRI, G. J., JR. Conference proceedings, Steam Power Plant Workshop [PB-239514/3] 07 p0144 B75-24148
06 p0081 H75-17793	SIMANOVSKII, L. B. Utilization of tubular thermoelectric modules in
Application of fuel cells with heat recovery for	solar generators
integrated utility systems 08 p0187 A75-45949	05 p0020 A75-17067 Determination of the temperature field in a
SHIHADA, K.	tubular thermoelectric module
Electric power generation system directory from laser power	05 p0020 A75-17068 SINON, F.
[NASA-CASE-NPO-13308-1] 08 p0204 N75-30524 SHIPLEY, J. P.	Standardized solar simulator tests of flat plate solar collectors. 1: Soltex collector with two
Control system design and simulation for solar	transparent covers
heated structures [LA-UR-74-1085] 06 p0082 B75-17813	[NASA-TH-X-71738] 07 p0141 H75-24118 Solar collector performance evaluation with the
SHIPPER, W. B. Tropical ocean thermal power plants and potential	WASA-Lewis solar simulator-results for an all-glass-evacuated-tubular selectively-coated
products	collector with a diffuse reflector
[AIAA PAPER 75-617] 06 p0064 A75-29116 SHIRAI, T.	[BASA-TM-X-71695] 08 p0207 H75-31568 SINON, P. P.
Application of thermodynamic and material- and energy-balance calculations to gasification	Status of the NASA-Lewis flat-plate collector tests with a solar simulator
processes 06 p0055 175-24785	06 p0058 A75-27533 Outdoor flat-plate collector performance
SHISHKOV, Y. V. Some developments of industrial	prediction from solar simulator test data [AIAA PAPER 75-741] 07 p0113 A75-32862
magnetohydrodynamic electric power plants	Outdoor flat-plate collector performance
06 p0081 h75-17792 SHOLES, J. R.	prediction from solar simulator test data [NASA-TM-X-71707] 07 p0140 N75-24111
Preliminary results of the large experimental wind turbine phase of the national wind energy program	SIMONINI, G. Meteorological factors and dispersion of
08 p0196 A75-47798	pollutants in the atmosphere - A preliminary
Preliminary results of the large experimental wind turbine phase of the national wind energy program	study about a large power plant 06 p0045 A75-21150
[NASA-TH-X-71796] 08 p0210 H75-32594 SHOLES, T.	SIMPSON, J. D. Pinancial incentives and pollution control: A
Preliminary results of the large experimental wind	case study
turbine phase of the national wind energy program [WASA-TM-X-71796] 08 p0210 W75-32594	[PB-241479/5] 08 p0208 B75-31610 SIBS, A. V.
SHORT, M. M. Exploration for fossil and nuclear fuels from	Field surveillance and enforcement guide for petroleum refineries
orbital altitudes	[PB-236669/8] 06 p0090 N75-18786
[NASA-TH-X-70781] 05 p0027 N75-11413 SHPILRAYH, R. B.	SINGH, J. J. Synthetic fuels for ground transportation with
Electronic model of the U-25 device 06 p0081 N75-17794	special emphasis on hydrogen [NASA-TM-X-72652] 06 p0103 N75-20868
SHUKER, P. S.	SINIAVSKII, V. V.
Sulfur-based lithium-organic electrolyte secondary batteries	Design study of the energy characteristics of thermionic electric power generating components
[AD-A003309] 06 p0104 H75-20882 SHUHIATSKII, B. IA.	and assemblies 06 p0064 A75-28893
Investigation of the optimal MHD-generator characteristics for combinational open-cycle MHD	SIRIGHAMO, W. A. Summary report of workshop on Energy Related Basic
power generators	Combustion Research
07 p0119 A75-36260 SHUHTATSKIY, B. Y.	[PB-236714/2] 06 p0079 M75-17456 SIROCKY, P.
Some developments of industrial	The 100 kW experimental wind turbine generator
magnetohydrodynamic electric power plänts 06 p0081 H75-17792	project [NASA-TH-I-71758] 08 p0202 N75-29546
Experience in the first step of the mastery of the U-25 device	SITNOY, V. I. Influence of the geometrical development of the
06 p0081 H75-17793	cathode surface on the specific power of a
SEVALEVA, O. L. Solar heating and cooling of buildings using heat	thermionic converter with surface ionization 08 p0173 A75-43860
pumps /Brief survey/ 07 p0116 A75-34321	SITTEL, K. Considerations regarding a utilization of solar
Use of solar heat rumps for heating and air conditioning - A brief survey	energy 06 p0050 A75-23510
08 p0170 a75-41534	00 g0030 413-23310
SIDOROV, V. S. Experience in the first step of the mastery of the U-25 device	
06 n0081 N75-17793	•

06 p0081 N75-17793,

SJOVOLD, A. B.
Impact of future use of electric cars in the Los SOATOW, F.
Study of the influence of container design and the Angeles region. Volume 2: Task reports on electric car characterization and baseline thermal inertness of solar water heaters on their efficiency 07 p0119 A75-36018 projections [PB-238878/3] Investigation of the effect of boiler design and 07 n0131 N75-22200 SKARUPA, T. E.
Solar energy and energy conservation in a
state-assisted housing for the elderly project
[AIAA PAPER 75-611] 06 p0062 A75-28591 finite thermal response of solar water heaters on efficiency 08 p0170 A75-41541 SOCLOF, S. I.
Effect of impurity doping concentration on solar SHALL, T. R.
Engine development program for the APL remotely piloted vehicle 07 p0124 A75-37404 SOMIRKO, Y. D.
Some developments of industrial [AD-787507] 06 p0065 N75-15658 SMERBOPP, B. J.

Energy and security: Implications for American magnetohydrodynamic electric power plants 06 p0081 #75-17792 [AD-785084] 05 p0032 N75-12857 SHETANA, P. O. Calculation of the radiant energy field for a biparaboloidal radiation furnace with a carbon arc Storage of summertime waste heat from electric generating plants for use in wintertime
[AINA PAPER 75-743] 07 p0113 A75-SOKOLSKII, A. G.
Investigation of characteristics of 07 p0113 A75-32852 SHIRBOVA, A. H. magnetohydrodynamic generators in industrial Generation of electric power at high reliability levels using a group of solar power plants in an power plants [AD-A008343] 07 p0149 N75-25307 energy system SOKOLSKY, S. 07 p0122 A75-37159 ### Adde shift strategies in intercity transportation and their effect on energy consumption

[AIAA PAPER 75-315] 06 p0055 A75-25013 SHITH, C. L. Conceptual design of reduced energy transports
[AIAA PAPER 75-303] 06 p0047 A75-22508 SOLODIAMNIKOV, IU. A.

Determination of the surface shapes of film-type SMITH, B. B. Coal-gas combustion in industrial gas turbines
[AIAA PAPER 74-1114] 05 p0010 A75 05 p0010 A75-11286 solar energy concentrators with seams SMITH, G. A. 07 p0119 A75-36017 Dynamic conversion of solar generated heat to electricity
[NASA-CR-134724] Blectrodes for thermionic energy conversion 08 p0188 A75-45957 06 p0066 N75-16079 SMITH, J. W.

Determination of carbonate minerals of Green River SONENSHINE. D. Interdisciplinary study of atmospheric processes and constituents of the mid-Atlantic coastal region. Attachment 3: Data set for Craney Island oil refinery installation experience. formation oil shales, Piceance Creek Basin, Colorado [PB-240669/2] 07 p0159 N75-27554 [NASA-CR-142823] 07 p0141 N75-24121 Interdisciplinary study of atmospheric processes SMITH, H. C. Wind power system optimization and constituents of the mid-Atlantic coastal region. Attachment 4: Data set for background investigation of atmospheric constituents for 08 p0193 A75-46026 Prospect for geothermal power [LA-UR-74-1111] 06 p0086 N75-18723 Nansenond River site [NASA-CR-142821] SONJU, O. K. Progress of the LASL dry hot rock geothermal 07 p0141 N75-24122 energy project 06 p0100 N75-20848 MHD power generation (Viking Series) with SMITH, P. R. Funerical modeling of flat plate solar collectors
[ATAN PAPER 75-739] 07 p0113 A75-32861
Evaluation of advanced lift concepts and fuel
conservative short-haul aircraft, volume 1 hydrocarbon fuels, part 3 [AD-A004216] 07 p0155 N75-26502 SOO. S. L. Study of an electrofluidic generator [NASA -CR- 137525] 06 p0096 N75-20291 08 p0189 A75-45978 Evaluation of advanced lift concepts and fuel conservative short-haul aircraft, volume 2
'(NASA-CR-137526] 06 p0097 N75-20292 SOOT, P. H.

New dimensions in water heating in the Northwest A study of solar energy utilization

OR D0191 A75-459 08 p0191 A75-45995 SHITE, B. T. SORENSEN, B. Generation schemes for wind power plants 08 p0169 A75-40688 Energy and Resources - A plan is outlined according to which solar and wind energy would Blectrical generation by wind power supply Denmark's needs by the year 2050 07 p0124 A75-37846 08 p0193 A75-46024 SHITH, T. W.
The household energy game SOREHSEH, E. E. Tidal power and its integration into the electric [COM-75-10304/4] 07 p0161 H75-27578 system SHITHSON, G. B., JR. Study of potential problems and optimum opportunities in retrofitting industrial processes to low and intermediate energy gas 05 p0013 A75-12994 SPACKHAH. W. The relation of coal characteristics to coal liquefaction behavior [PB-239261/1] 07 p0151 N75-25

SPAFFORD, R. B.
A brief description of geological and geophysical 07 p0151 N75-25327 [PB-237116/9] SHOLLBCK, H. A. 06 p0088 N75-18739 Application of fast sparse-matrix techniques and an energy estimation model for large exploration of the Marysville geothermal area 06 p0099 N75-20839 transporation networks SPANBAGEL, G.
Energy and the environment in Baden-Wuerttemberg
[KFK-1966-UF] 05 p0030 H75-12439 08 p0201 N75-28967 SHULYAH, M. H. [KFK-1966-Ur]
SPARROW, B. M.
Solar-thermal electric power generation using a system of distributed parabolic trough collectors [AICHE PAPER 12] 08 p0196 A75-47511
Proceedings of the Solar Thermal Conversion Workshop [PB-239277/7]
Research applied to solar thermal systems rPB-241089/2] 08 p0200 N75-28543 A technology assessment of the hydrogen economy concept 08 p0172 175-42286 A technology assessment of the hydrogen economy 08 p0194 A75-46C37 SHOW, D. B. Hydrogen for the subsonic transport

08 p0178 A75-44791

Research applied to solar thermal power systems [PB-241090/0] 08 p0201 H75-28544	STRIBBRG, H.
SPEIDEL, T. O. P.	The economics of the production of liquid fuel and fertilizer by the fixation of atmospheric carbon
Topping cycle applications of thermionic conversion 08 p0188 A75-45972	and nitrogen using nuclear power 08 p0191 175-4600
SPENCER, D. P.	Applications of fusion power technology to the
Roles for solar thermal conversion systems in our	chemical industry
energy economy 06 p0059 A75-27784	[BNL-18815] 05 p0029 #75-11730 Survey of applications of fusion power technology
SPENCER, J. D.	to the chemical and material processing industry
Bureau of Mines energy program, 1973 [PB-234682/3] 05 p0040 N75-15172	[BHL-18866] 05 p0031 H75-12443 Coal combustion and desulfurization in a rotating
SPEBA, D. A.	fluidized bed reactor
Structural analysis of wind turbine rotors for	[BNL-19308] 07 p0129 #75-21799
NSP-NASA Mod-0 wind power system [NASA-TM-X-3198] 06 p0080 N75-17712	STRINHAGEN, C. A. Study of the costs and benefits of composite
SPIEWAK, I.	materials in advanced turbofan engines
Study of the application of HTGR to a petroleum refinery petrochemical complex	[NASA-CR-134696] 06 p0073 N75-16637 STEINLE, H.
[CONF-741144-1] 07 p0142 N75-24126	High temperature air preheaters for open cycle NHD
SPORD, D. B. Low thermal flux glass-fiber/metal vessels for LH2	energy conversion systems [AICHE PAPER 16] 08 p0 196 A75-47512
storage systems	STRIBLE, H. P.
08 p0177 A75-44783	Progress in development of auxiliary MHD power
SPRANKLE, B. S. Helical rotary screw expander power system	plant components at Avco Rverett Research Laboratory, Inc
06 p0101 H75-20856	[ASME PAPER 74-WA/EMER-6] 05 p0016 A75-16838
SPRATT, J. P. Concentrated photovoltaic power generation systems	STEPHENS, D. R. Revised cost estimate for the LLL in situ coal
OB p0188 A75-45963	gasification concept
SPRAUL, J. R.	[UCRL-51578] 05 p0039 N75-15166
Technology assessment of portable energy RDT and P, phase 1	Fracture-induced permeability: Present situation and prospects for coal
[NASA-CR-137654] 07 p0134 N75-22901	[UCID-16593] 06 p0094 N75-19830
Technology assessment of portable energy RDT and P, phase 1	STEPHEES, J. B. Solar pond
[NASA-CR-137653] 07 p0134 N75-22902	[NASA-CASE-NPO-13581-1] 07 p0160 N75-27560
SPRENGEL, U.	Low cost solar energy collection system
DPVLR activities in the area of energy research 07 p0118 175-35096	[NASA-CASE-NPO-13579-1] 08 p0199 N75-28519 STEPHENS, N. H.
SPRINGER, T. E.	Vulnerability of natural gas systems
Control system design and simulation for solar heated structures	[AD-A007583] 07 p0144 H75-24143 STEPHIRUSKI, W. Z.
[LA-UB-74-1085] 06 p0082 N75-17813	Documenting helicopter operations from an energy
SRIWIVASAW, S.	standpoint [BASA-CR-132578] 06 p0084 B75-18220
Hydrogen production by water electrolysis - Methods for approaching ideal efficiencies	[HASA-CR-132578] 06 p0084 B75-18220 STERM, J. B.
08 p0193 A75-46023	Advanced subsonic transports - A challenge for the
STALLINGS, R. D. The Energy Systems Optimization Computer Program	1990's [AIAA PAPER 75-304] 06 p0049 A75-23251
/ESOP/ developed for Modular Integrated Utility	STERZER, P.
Systems /HIUS/ analysis 05 p0006 A75-10551	The conversion efficiency of ideal Shockley p-n junction photovoltaic converters in concentrated
STAMPER, J. T.	sunlight
'Time is energy' /Henson and Stringfellow Hemorial Lecture/	07 p0120 A75-36362 STRTTLER, J. D.
07 p0112 A75-32324	An electron beam initiated fusion neutron generator
STANGERY, P. C. A review of the status of HHD power generation	06 p0045 A75-19657
technology including suggestions for a Canadian	STEUNENBERG, R. K. Development of high specific energy batteries for
MHD research program	electric vehicles
[UTIAS-39] 05 p0035 N75-13641 STEADHAN, P.	[ANL-8058] 06 p0076 N75-16990 STEVENS, T. H.
Energy, environment and building	Atlantic outer continental shelf energy resources:
07 p0111 A75-31448	An economic analysis [COM-75-10330/9] 07 p0152 H75-26484
STEEGER, E. J. Radioisotope space power generator	STEWARD, W. G.
[GA-A-12848] 05 p0038 N75-14832	Stationary concentrating reflector cum tracking
STEELE, J. L. A brief description of geological and geophysical	absorber solar energy collector - Optical design characteristics
exploration of the Marysville geothermal area	07 p0120 175-36307
06 p0099 H75-20839 STEFFGEE, P. W.	STEWART, D. H. The Marysville, Montana Geothermal Project
Conversion of cellulosic wastes to oil	06 p0100 B75-20849
[PB-240839/1] 07 p0161 H75-27572 STEHFEST, H.	STICKLER, D. B. Progress in development of auxiliary MHD power
Energy and the environment in Baden-Wuerttemberg	plant components at Avco Everett Research
[KFR-1966-UF] 05 p0030 N75-12439	Laboratory, Inc
STRIM, C. Research design construction and evaluation of a	[ASME PAPER 74-WA/ENER-6] 05 p0016 A75-16838 STICKLEY, B. A.
low energy utilization school, research phase 1	A central receiver solar power plant in a hybrid
[PB-242217/8] 08 p0213 N75-33504 STEIN, B. G.	mode of operation [AIAA PAPER 75-624] 06 p0062 A75-28596
Research design construction and evaluation of a	Solar Power Array for the Concentration of Energy
low energy utilization school, research phase 1 [PB-242217/8] 08 p0213 N75-33504	(SPACE) (PB-236247/3] 06 p0071 h75-16114

STIRL, L. I. Optimum properties of working fluids for solar powered heat pumps
08 p0185 A75-4593
STIRB, R. J. A 15% efficient antireflection-coated metal-oxide-semiconductor solar cell 07 p0119 A75-3627
STOBBER, A. W. Space and energy - Some legal problems 08 p0183 A75-4588
STOLL, B. Thermoelectric generators 06 p0058 A75-27718
STOLLER, H. H.
In situ oil shale conversion and recovery [SLA-74-0162] 06 p0093 N75-1982
Legal economic, and energy considerations in the use of underground space
[PB-236755/5] 06 p0080 N75-17749
STOWE, J. C. Beconomic modeling and energy policy planning 06 p0079 N75-17210
STORE, R. T. Leasing of federal geothermal resources
06 p0099 N75-2084 STOTLER, C. L.
Study of the costs and benefits of composite
materials in advanced turbofan engines [NASA-CR-134696] 06 p0073 N75-1663
STOUT, G. B. Proceedings of the Workshop on Research Needs
Related to Water for Energy [PB-241346/6] 08 p0208 N75-3158
STRACK, W. C.
Preliminary study of advanced turboprops for low energy consumption
[NASA-TH-X-71740] 07 p0146 N75-24739 Fuel-conservative engine technology
08 p0206 N75-31076
Solar sea power plants /SSPP/ 08 p0191 A75-45990
Solar Sea Power Plants (SSPP): A critical review and survey
[HASA-TH-X-70783] 05 p0028 N75-1145 STREBROI, D. S.
Full-scale testing of high-voltage photocells of fotovolt type at elevated light flux levels
08 p0210 N75-32590
Full-scale tests of 'photovolt' high-voltage photocells at high light flux levels
07 p0122 A75-3716
Pinancial incentives and pollution control: A
case study [PB-241479/5] 08 p0208 N75-3161
An engineering-scale energy storage reservoir of
iron titanium hydride
08 p0177 A75-4478
for stationary and automotive applications [BML-18651] 05 p0030 N75-1244
STRIBBECK, D. C. Process environment effects on heat pipes for
fluid-bed gasification of coal [LA-DR-74-984] 05 p0029 H75-1225
STROE, R.
Project conserve, a pilot project in homeowner energy conservation
[PB-240407/7] 07 p0161 N75-2757
Electric power rights: One approach to rationing [PB-238537/5] 07 p0143 N75-2413
Manportable thermoelectric generator [AD-A002042] 06 p0095 #75-1984
STULOT, T. T. Brecting gas storage facilities and oil centers
[AD-A006559] 07 p0134 H75-2278. STTRIKOVICE, H. A.
Interaction between the fuel-energy complex and the environment

07 p0110 A75-29800

```
SUAREZ, B.
    The University of Florida solar powered intermittent ammonia/water absorption air
        conditioner .
                                                        07 p0118 A75-34936
SURLAU, B. H.
Snow and ice removal from pavements using stored
       earth energy
        [PB-240623/9]
                                                        07 p0162 N75-27581
SUBHOTO, S. H.
Preliminary results of geothermal desalting operations at the East Mesa test site Imperial Valley, California

06 n0101 N75-2
                                                        06 p0101 N75-20850
SULKES, M. J.
    ARBS, 8. J.
Wickel-zinc batteries for hybrid vehicle operation
PPR-239710/71 07 p0156 M75-26514
SUMBERPIBLD, M.
    Intermediate-term energy programs to protect
       against crude-petroleum import interruptions:
Peasible alternatives, program costs, and
operational methods of funding
[PB-237209/2] 06 p0083 m75-
                                                        06 p0083 H75-17826
Ultimate energy, the ultimate fuel, and the hydrogen link in the electrical energy system 08 p0180 A75-44815
SUB, K. H.
Thermal performance characteristics of heat pipes
06 p0046 A75-21465
SUBSHINE, D. R.

Space and energy conservation housing prototype unit development
        [NASA-CR-143201]
                                                        07 p0160 B75-27567
SURPREBANT, B.
    Waste automotive lubricating oil reuse as a fuel [PB-241357/3] 08 p0204 N75-30331
SUTER, K. B.
The Environmental protection agency industrial technology transfer program

06 p0078 N75
                                                        06 p0078 N75-17193
SWALLOH, D. W.

MHD energy conversion systems
[AIAA PAPER 74-1071] 05 p0001 A75-
HHD energy conversion for high power electrical
                                                        05 p0001 A75-10263
        needs
                                                        07 p0124 A75-37657
SWAMBERG, C. A.
Heat flow and geothermal potential of the East
Hesa KGRA, Imperial Valley, California
06 p0099 N75
                                                        06 p0099 N75-20838
SWANNACK. C. E.
     Magnetic Energy Transfer and Storage (METS)
        program schedules for a Pusion Test Reactor (FTR)
                                                       06 p0106 N75-21097
        [LA-5748-MS]
SWEET, H. S.
     Design of short haul aircraft for fuel conservation
     [SAE PAPER 750587] 08 p0169 A75-40502
Evaluation of advanced lift concepts and potential
fuel conservation for short-haul aircraft
        [NASA-CR-2502]
                                                       06 p0073 N75-16557
SWEESOH, R. W.

Legal economic, and energy considerations in the use of underground space
       [PB-236755/5]
                                                        06 p0080 N75-17749
SWET, C. J.
    Thermochemical water cracking using solar heat
08 p0175 175-44765
    Characteristics of a rocking wave power device
                                                        06 p0062 A75-28450
                                                       electricity
     Can hydrogen transmission replace
                                                       08 p0165 A75-38863
     The potential of natural energy sources
    08 p0165 A75-38865
Will hydrogen transmission replace electricity
08 p0172 A75-42281
SWISHER, J. H.
    Survey of hydrogen compatibility problems in
energy storage and energy transmission
        applications
     [SAND-74-8219] 06 p0087 B75-18726
Potential structural material problems in a
       hydrogen energy system [HASA-TH-X-71752]
```

07 p0154 875-26500 ·

SWITZER, G. W.	TEK, B. R.
Low Btu gasification high temperature-low	Evaluation of coal conversion processes to provide
temperature H2S removal comparison effect on overall thermal efficiency in a combined cycle	clean fuels, part 1 [PB-234202/0] 05 p0025 H75-10600
power plant	Evaluation of coal conversion processes to provide
[PB-235780/4] 06 p0072 N75-16125 STRETT, B. C.	clean fuels, part 2 [PB-234203/8] 05 p0025 B75-10604
Materials requirements for advanced energy	[PB-234203/8] 05 p0025 875-10604 TELEGIB, G. P.
systems: New fuels. Volume 3: Materials	Experience in the first step of the mastery of the
research needs in advanced energy systems using new fuels	U-25 device
[AD-A004550] 07 p0158 H75-27168	75-17793 TELKES, N.
SYRETT, J. J.	Thermal energy storage
Can hydrogen transmission replace electricity 08 p0165 A75-38863	08 p0185 A75-45932
Will hydrogen transmission replace electricity	TRLLER, R. Energy: A plan for action
08 p0172 A75-42281	07 p0110 a75-30375
<u>_</u>	TEMPELMETER, K. B. The MHD power generation system with directly
Ţ	fired coal
TABET, B.	05 p0009 A75-10577
Problems in electric power production [ISS-T-73/16] 07 p0128 H75-21793	MHD electrical power generation from fossil fuels [AIAA PAPER 75-1236] 08 p0182 A75-45648
TAGAVA, H.	TENO, J.
Production of hydrogen from water using nuclear	MHD power generation (Viking Series) with
energy. A review [JAERI-H-5642] 06 p0093 N75-19824	hydrocarbon fuels, part 3 [AD-A004216] 07 p0155 N75-26502
TARETANI, E.	TERRILL, W. R.
Material considerations involved in solar energy	Solar heating and cooling of Army buildings
conversion	08 p0184 A75-45926 TERRY, P. L.
TAB, S. S.	The EPA-Van - A clean energy system for the home
Characterization of sulfur recovery from refinery	08 p0186 A75-45946
fuel gas [PB-239777/6] 07 p0151 N75-25326	TESTER, J. W. Comparative performance characteristics of
TAMAS, S.	cylindrical parabolic and flat plate solar
Insufficient utilization of scientific advances 07 p0137 N75-23365	energy collectors [ASME PAPER 74-WA/ENER-3] 05 p0016 A75-16835
TANG, Y. S.	Comparative performance characteristics of
Clinch River Breeder Reactor: A combined power	cylindrical parabolic focusing and flat plate
and fuel source [CONF-740609-4]	solar energy collectors [CONF-741104-3] 06 p0103 N75-20872
TABI, T.	THACHUK, A. R.
Solar power generating systems as sources of	MER: Ultimate recovery vs rate. A reservoir
non-polluting energy (power generation in space and power generation on the ground)	simulation study. Volume 1 [PB-239767/7] 07 p0157 N75-26526
[NASA-TT-F-16091] 05 p0033 N75-13383	BER: Oltimate recovery vs rate. A reservoir
Solar energy [NASA-TT-F-16092] 05 p0038 N75-15149	simulation study. Volume 2: Appendices [PB-239768/5] 07 p0157 N75-26527
TARNIZHRYSKII, B. V.	THALLER, L. H.
Generation of electric power at high reliability	Electrically rechargeable redox flow cells
levels using a group of solar power plants in an energy system	05 p0008 A75-10573
07 p0122 A75-37159	Physics and potentials of fissioning plasmas for
TAROD, P. J.	space power and propulsion [IMP PAPER 74-087] 05 p0015 A75-13719
Heating buildings with solar energy 07 p0117 A75-34933	Gaseous fuel nuclear reactor research
TASCERK, W. G.	08 p0168 A75-40177
Metal hydride fuel cell power source 05 p0008 A75-10564	THOMAS, HJ. Thermal power plants
TATE, T. B.	06 p0064 A75-28962
Advanced nuclear research	THOMAS, B.
[GPO-41-253] 05 p0026 N75-10764 TATON, J. W.	Plans and status of the NASA-Lewis Research Center wind energy project
Parametric study for a pyrolytic system for	08 p0197 A75-47802
production of fuels from agricultural and	Plans and status of the NASA-Levis Research Center
forestry wastes 08 p0187 A75-45950	wind energy project [NASA-TH-X-71701] 07 p0128 N75-21795
TAYLOR, C. E.	THOMAS, R. B.
Cryogenic engineering and fusion power 08 p0173 A75-43979	The collaborative study of EPA methods, 5, 6, and 7 in fossil fuel-fired steam generators
TAYLOR, J. H.	[PB-237695/2] 06 p0091 N75-18788
Chemically active fluid-bed process for sulphur	THOMAS, R. L.
removal during gasification of heavy fuel oil, phase 2	Preliminary results of the large experimental wind turbine phase of the national wind energy program
[PB-240632/0] 07 p0159 N75-27556	08 p0196 A75-47798
TRIGUR, O. E. Conservation and efficient use of energy	Preliminary results of the large experimental wind turbine phase of the national wind energy program
[H-REPT-93-1634] 05 p0036 N75-14265	[NASA-TH-x-71796] 08 p0210 N75-32594
TEDBOE, C. S., JR.	THOMAS, W. A.
Corrosion problems in energy conversion and generation; Proceedings of the Symposium, New	Proceedings of a Workshop on Solar Energy and the Law
York, N.Y., October 15-17, 1974	[PB-241051/2] 08 p0201 N75-28551
06 p0054 A75-24376	THOMASSEM, K. I.
TERPLE, B. V. Demonstration plant, clean boiler fuels from coal.	Magnetic Energy Transfer and Storage (METS) program schedules for a Fusion Test Reactor (FTR)
Volume 3: Preliminary design/economics analysis	[LA-5748-ms] 06 p0106 N75-21097
[PB-238529/2] 07 p0142 H75-24127	

PERSONAL AUTHOR INDEX TURBER, C.

THOMASSON, M. R. TOWNES, H. W. A wind energy conversion system based on the tracked-webicle airfoil concept Energy supply and demand challenges and some possible solutions 05 p0004 A75-10518 06 p0059 A75-27779 THOMPSON, B. B.
Application of nuclear rocket technology to light
weight nuclear propulsion and commercial nuclear TOWNSEND, S. J.
An HHD energy storage system comprising a heavy-water producing electrolysis plant and a
H2/02/CSOH HHD generator/steam turbine
combination to provide a means of transferring
nuclear reactor energy from the base-load regime
into the intermediate-load and peaking regimes
08 p0179 a75-44800 process heat systems [AIAA PAPER 75-1261] 08 p0182 A75-45661 THOMPSON, B. G.

Reconomic modeling and energy policy planning

06 p0079 N75-17210 TRACY, T.

The design of a solar cavity steam generator for THOMS, B. C. MHD energy conversion for high power electrical electrical power generation needs 08 p0190 A75-45982 07 p0124 A75-37657 THUNBORG, S. TRAM. V. V. Solar total energy program Solar stills for agricultural purposes [SAND-74-0208] 06 p0081 N75-17810 07 p0115 A75-33972 TRAUGER, D. B.

Nuclear reactor process heat capabilities, potential, and economics
[CONF-741032-1] 07 p0131 TIBBETTS, J. G. Evaluation of advanced lift concepts and fuel conservative short-haul aircraft, volume 1 [NASA-CR-137525] 06 p0096 N75-20291 07 p0131 N75-22112 TRAXLER, R. W. Petroleum degradation in low temperature marine Evaluation of advanced lift concepts and fuel conservative short-haul aircraft, volume 2
[NASA-CR-137526] 06 p0097 N75-20292 and estuarine environments TIBDEMAN, L. [AD-A007588] 07 p0146 N75-24191 Hovel materials for power systems. Part 3: TREADWELL, G. W. Selective emitters for energy conversion [AD-784449] Design analysis of asymmetric solar receivers [SAND-74-0124] 06 p0076 N7 05 p0026 N75-10608 06 p0076 N75-16986 TRBITÈL, R. TIEDENANN, J. B. A heat pump powered by natural thermal gradients 05 p0006 A75-10550 The economics of nuclear power 06 p0047 A75-22734 TIEB. C. L. TRELA, W. J. Thermal performance characteristics of heat pipes 06 p0046 A75-21465 Blectrochemical heat engines for direct electric power generation and energy storage
[AIAA PAPER 75-1237] 08 p0182 A75-45649 TILTON, J. R.
US energy R and D policy: The role of economics
[RFF-WORKING-PAPER-EN-4] 06 p0080 N75-1 TRILLING, C. A. 06 p0080 N75-17783 Coal gasification by Atomics International's Rockgas process
[ASBE PAPER 74-WA/PWR-11] TIMBREAUS, K. D. Cryogenic Engineering Conference, Georgia Institute of Technology, Atlanta, Ga., August 8-10, 1973, Proceedings 05 p0018 A75-16883 TRIBBLE, L. C.
Ocean thermal energy conversion system evaluation
[AIAA PAPER 75-616] 06 p0064 A75-29 08 p0173 A75-43976 06 p0064 A75-29115 TRIMBER, D. S.
Application of heat pipes to solar collectors TIEGEY, G. L.
Coal structure and reactivity [TID-26637] 06 p0097 N75-20805 08 p0195 A75-46045 TRIPP, R.
60 watt hydride-air fuel cell system
05 TITTERINGTON, W. Hydrogen generation by solid-polymer electrolyte water electrolysis 05 p0008 A75-10567 08 p0177 A75~44777 TROITSKIY, A. A. Scientific research in power engineering TOBIE, D. J. 08 p0205 N75-30648 [JPRS-65422] Progress in coal gasification TRUKHOV, V. S. 05 p0013 A75-12993 Design of a tubular heat collector for a solar Consideration of ultra-high temperature nuclear power installation with a parabolocylindric heat sources for MHD conversion systems
[AIAA PAPER 75-1258] 08 p0182 A75-45659 concentrator 05 p0020 A75-17069 TODD, J. S.
Solar 10 kW turboalternator silent power program
[AD-A006549] 08 p0203 N75-29555 Prospects for using dynamic thermocompression converter in solar power plants 05 p0020 A75-17076 TOILIEV, K. TRUSCELLO, V. Theoretical determination of the temperature in a Performance testing of thermoelectric generators at JPL solar water heater /steady state/ 07 p0112 A75-31513 05 p0002 A75-10503 TRUSCRLLO, V. C.
Two-watt radioisotope power generators for Theoretical research on the operation of a solar water heater and comparison with experimental data 07 p0112 A75-31515 underwater applications TOLSTIKOV, E. 05 p0007 A75-10556 Exploration of Antarctica: Past and present [BLL-m-23343-(5828.4P)] 06 p0080 N75-17722 TUDOR. J. J. Design study for a coal-fueled closed cycle gas TOBLIESOB, S. V.

Evaluation of fixed bed, low BTU coal gasification
systems for retrefitting power plants
[PB-241672/5]

08 p0211 N75-326 turbine system for MIUS applications 08 p0187 A75-45948 TUNNAB. B. G. where the boilers are: A survey of electric utility boilers with potential capacity for 08 p0211 N75-32602 burning solid waste as fuel [PB-239392/4] Thermodynamic considerations of 'solid state 07 p0143 #75-24135 engines' based on thermoelastic martensitic transformations and the shape memory effect TURBYFILL, B. O.
Technical and economic evaluation of solar heating 06 p0045 A75-19631

and cooling of buildings

Report and recommendations of the Solar Energy Data Workshop

TURCHAB, M. J.
Nickel-cadmium cells
[NASA-CR-143715]

[PB-238066/5]

TURNER, C.

ICHAIS, M. Solar production of electrical energy 07 p0112 A75-31588

08 p0184 A75-45924

TOUCHARD, W. A., JR.
A large mechanical contracting corporation solar

heats its own offices

3-55

08 p0184 A75-45921

07 p0128 #75-21792

06 p0089 #75-18757

			•
·	`.	- .	
TURSUBBARV, I. A.		VANCE, P. R.	
Prospects for using dynamic the		A systems approach to innovat	ive solutions to the
converter in solar power plan		energy problem	000043 #35 33505
TVBRIANOVICH, B. V.	05 p0020 A75-17076	[PB-242189/9] VANDOMELEN, B. H.	08 p0213 N75-33505
A technique for calibrating pho-	tometric curves	Review of thermal battery tec	hnology
obtained in solar concentrator		[SLA-74-5381]	06 p0076 H75-16989
	08 p0180 A75-45060	VANSTON, J. H., JR.	
TWORBLY, P. D.		Technology assessment of port	
Investment possibility of finance	cial institutions	[NASA-CR-137655]	07 p0160 H75-27565
in solar heating	07 -0455 975-36514	VANT-HULL, L. L.	
[PB-239756/0] TIMEB, W. B.	07 p0155 N75-26511	A tower-top point focus solar	08 p0174 A75-44753
Atlantic outer continental shelf	energy resources:	Solar thermal power systems be	
An economic analysis		transmission	
[COM-75-10330/9]	07 p0152 N75-26484	[PB-237005/4]	06 p0088 875-18742
		VARGO, D. J.	-
11 .		Wind energy developments in the	
gpn, 7		Wind oneses desclopments in Al	05 p0020 A75-17503
URDA, K. Superconducting synchronous mach	ine	<pre>Wind energy developments in ti [NASA-TM-X-71634]</pre>	05 p0033 N75-13380
	06 p0061 A75-27967	VARTABIAN, A. V.	05 p0035 a75 13300
URDA, R.	00 P ,000 i, 21 2 1 5 0 i	A technique for calibrating p	hotometric curves
Production of hydrogen from water	er using nuclear	obtained in solar concentra-	
energy. A review	-		08 p0180 A75-45060
[JAERI-M-5642]	06 p0093 N75-19824	VASILCHEBKO, V.	
UHL, A. E.	4	II-VI photovoltaic heterojunc	tions for solar
Fuel energy systems - Conversion efficiencies	ı anu transport	energy conversion	05 p0012 A75-12734
GITTOTOHOTOS	05 p0007 A75-10554	VASILEY, A. M.	05 p0012 E15-12134
DERMACHER, J. C.	03 p000, 2.3 (033)	Investigation of photoelectric	c converter operation
Energy from urban wastes		under conditions of strong	
	05 p0006 A75-10548	•	07 p0119 A75-36015
ULLMAN		Operation of photoconverters	under conditions of
Elimination of duty on methanol	imported for	strong illumination	00 0470 175 #4570
certain uses	05 p0026 N75-10857	VASILEY, L. L.	08 p0170 A75-41538
[H-REPT-93-998] UMAROV, G. IA.	03 p0020 #75-10857	Controlled heat pipes	
Design of a tubular heat collect	or for a solar	controlled near paper	05 p0012 A75-12912
power installation with a para		VASILIEV, L. L.	•
concentrator		Progress in heat pipe and porc	ous heat exchanger
N	05 p0020 A75-17069	technology	06 -0005 175 00606
Prospects for using dynamic then converter in solar power plant		VATAVUK, W.	06 p0045 A75-20686
Converter in solar power plant	05 p0020 A75-17076	Compilation of air pollutant	emission factors.
Determination of some thermophys		second edition, supplement	
characteristics of a solar-type		[PB-235736/6]	06 p0073 N75-16.152
	07 p0116 A75-34317	VEDEL, J.	
	mnoraturo colar	CdS-Cu2S cells - An outlook fo	
Pabricating paraboloidal high-te			or terrestrial
concentrators from mollified s	ectors .	applications	
concentrators from mollified s	sectors 07 p0122 A75-37166	applications	or terrestrial 06 p0052 A75-24223
concentrators from mollified some thermophys	ectors 07 p0122 A75-37166 ical properties of		06 p0052 A75-24223
concentrators from mollified s	ectors 07 p0122 A75-37166 ical properties of	applications VBLIKHOV, B.	06 p0052 A75-24223
concentrators from mollified so Determination of some thermophys pebble-type solar heat accumul Calculation of the radiant energy	ectors 07 p0122 A75-37166 ical properties of ators 08 p0170 A75-41530 y field for a	applications VBLIKHOV, B. Man-made sun. Thermonuclear of developments [BLL-M-23333-(5828.4P)]	06 p0052 175-24223
concentrators from mollified some thermophyse pebble-type solar heat accumulation.	ectors 07 p0122 a75-37166 cical properties of ators 08 p0170 a75-41530 (y field for a ce with a carbon arc	applications VBLIKHOV, B. Man-made sun. Thermonuclear of developments [BLL-H-23333-(5828.4F)] VBNUTI, G.	06 p0052 A75-24223 engineering 06 p0091 H75-19014
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08 p0177 A75-44787

	WAIBEL, A. P.
heating and cooling and wind energy programs	A brief descript
[HASA-TH-X-71745] 07 p0154 N75-26497	exploration of
Initial comparisons of solar collector performance	
data obtained cut-of doors and with a solar	WAIDE, C. H.
simulator	Metal hydrides a
[NASA-TM-X-71626] 08 p0211 N75-32595	[BNL-18887] WAITZHAN, D. A.
VERNOW, S. M. Temperature effects in Schottky-barrier silicon	Evaluation of f
solar cells	systems for re
07 p0115 A75-34175	[PB-241672/5]
Design considerations in Schottky solar cells	WALKDEN, H. W.
08 p0188 A75-45962	Optimisation of
VEZIROGLU, T. B.	geostationary
Remote sensing applied to energy-related problems;	•
Proceedings of the Symposium-Course, Miami,	WALKER, D. H.
Pla., December 2-4, 1974	Fuel gas product
07 p0118 A75-35451	[PB-238068/1]
Hydrogen energy fundamentals; Proceedings of the	WALKER, P. L., JR.
Symposium-Course, Miami Beach, Fla., March 3-5,	The relation of
1975 08 p0171 A75-42276	liquefaction
	[PB-239261/1] WALTON, J. D.
Hydrogen energy; Proceedings of the Hydrogen Economy Miami Energy Conference, Miami Beach,	Solar power syst
Pla., March 18-20, 1974. Parts A & B	[PB-236159/0]
08 p0174 A75-44751	Solar power syst
VICKTOR, H.	[PB-239185/2]
Air conditioning of office buildings with	WALTON, W. C.
all-electric supply. Part 1: Technical	Digest of energy
conception	in Minnesota
[OA-TRANS-938-PT-1] 06 p0074 N75-16970	[PB-239961/6]
VINE, R. W.	WANIRK, R. W.
Porous matrix structures for alkaline electrolyte	Chemical to elec
fuel cells	techniques
07 p0123 A75-37243	[AD-783901]
VIHOGRADOVA, B. B.	WARD, D. S. Utilization of s
Dependence of the basic parameters of Al/x/Ga/1-x/As-GaAs solar converters on	ULTITIZACION OF S
temperature and optical intensity	Design and cons
07 p0112 A75-32824	heating and co
VISSERS, D. R.	
Development of high specific energy batteries for	WARNOCK, D. R.
electric vehicles	Multimegawatt fi
[ANL-8058] 06 p0076 N75-16990	
VLADIMIROV, Y. P.	WARREN, R. W.
Prospects for utilization of underwater houses and	Solar selective
chambers in development of marine oil deposits	powders
05 p0029 N75-11606	[ASHE PAPER 7
VOJDANI, S.	WARSHAY, H.
Purther progress in the technology of silk	Cost and size es
screened CdS solar cells 06 p0052 A75-24225	bulk energy st [NASA-TM-X-319
VOOR, P. L.	Cost and size es
Hydrogen distribution profiling	bulk energy s
Hydrogen distribution profiling 08 p0179 A75-44805	bulk energy st [NASA-TH-X-718
Hydrogen distribution profiling 08 p0179 A75-44805 Integration of photovoltaic and solar thermal energy conversion systems	bulk energy s
Hydrogen distribution profiling 08 p0179 A75-44805	bulk energy s [NASA-TH-I-718 WATERS, H. H. Conceptual desi [AIAA PAPER 7
Hydrogen distribution profiling 08 p0179 A75-44805 Integration of photovoltaic and solar theraal energy conversion systems	bulk energy so [HASA-TH-X-716 WATERS, H. H. Conceptual designated the conceptual design of short
Hydrogen distribution profiling 08 p0179 A75-44805 Integration of photovoltaic and solar thermal energy conversion systems [SAND-74-0093] 06 p0076 N75-16992 VOROTHIKOV, V. I. Determination of the surface shapes of film-type	bulk energy so [HASA-TH-I-71: WATERS, M. H. Conceptual desic [AILA PAPER 7: Design of short [SAE PAPER 750
Hydrogen distribution profiling 08 p0179 A75-44805 Integration of photovoltaic and solar thermal energy conversion systems [SAND-74-0093] VOROTHIKOV, V. I. Determination of the surface shapes of film-type solar energy concentrators with seams	bulk energy so [HASA-TH-X-71) WATERS, H. H. Conceptual design [AIAA PAPER 7: Design of short [SAE PAPER 750] WATSON, T.
Hydrogen distribution profiling 08 p0179 A75-44805 Integration of photovoltaic and solar thermal energy conversion systems [SAND-74-0093] VOROTHINOV, V. I. Determination of the surface shapes of film-type solar energy concentrators with seams 07 p0119 A75-36017	bulk energy so [NASA-TH-1-71] WATERS, H. H. Conceptual desic [AIAA PAPER 7] Design of short [SAE PAPER 75] WATSON, T. Hon-hazardous pi
Hydrogen distribution profiling 08 p0179 A75-44805 Integration of photovoltaic and solar thermal energy conversion systems (SAND-74-0093) VOROTHIKOV, V. I. Determination of the surface shapes of film-type solar energy concentrators with seams 07 p0119 A75-36017 VOSS, A.	bulk energy so [NASA-TH-I-71] WATERS, M. H. Conceptual design of short [SAB PAPER 75] WATSON, T. Hon-hazardous plattery BA-55]
Hydrogen distribution profiling 08 p0179 A75-44805 Integration of photovoltaic and solar thermal energy conversion systems [SAND-74-0093] 06 p0076 N75-16992 VOROTHIKOV, V. I. Determination of the surface shapes of film-type solar energy concentrators with seams 07 p0119 A75-36017 VOSS, A. Other primary energy resources	bulk energy so [NASA-TH-I-71: WATERS, M. H. Conceptual design of short [SAE PAPER 75: WATSON, T. Hon-hazardous pi battery BA-55: [AD-A003312]
Hydrogen distribution profiling O8 p0179 A75-44805 Integration of photovoltaic and solar thermal energy conversion systems [SAND-74-0093] VOROTHINOV, V. I. Determination of the surface shapes of film-type solar energy concentrators with seams 07 p0119 A75-36017 VOSS, A. Other primary energy resources 06 p0050 A75-23512	bulk energy st [NASA-TH-X-71: WATERS, H. H. Conceptual desic [AIAA PAPER 75: Design of short [SAE PAPER 75: WATSON, T. Hon-hazardous pi battery BA-55: [AD-A003312] WAYNAH, C. H.
Hydrogen distribution profiling 08 p0179 A75-44805 Integration of photovoltaic and solar thermal energy conversion systems (SAND-74-0093) VOROTHINGV, V. I. Determination of the surface shapes of film-type solar energy concentrators with seams 07 p0119 A75-36017 VOSS, A. Other primary energy resources 06 p0050 A75-23512 Using systems methods for analysing integrated	bulk energy st [NASA-TH-1-714 WATERS, M. H. Conceptual design [AIAA PAPER 75 Design of short [SAB PAPER 750 WATSON, T. Hon-hazardous pi battery BA-555 [AD-A003312] WATHAH, C. H. Thermodynamic co
Hydrogen distribution profiling 08 p0179 A75-44805 Integration of photovoltaic and solar thermal energy conversion systems [SAND-74-0093] VOROTHIKOV, V. I. Determination of the surface shapes of film-type solar energy concentrators with seams 07 p0119 A75-36017 VOSS, A. Other primary energy resources 06 p0050 A75-23512 Using systems methods for analysing integrated energy supply, summary	bulk energy st [NASA-TH-L-71: WATERS, M. H. Conceptual desic [AIAA PAPER 7: Design of short [SAE PAPER 75: WATSON, T. Hon-hazardous pr battery BA-55: [AD-A003312] WAYMAN, C. H. Thermodynamic co engines' baser
Hydrogen distribution profiling 08 p0179 A75-44805 Integration of photovoltaic and solar thermal energy conversion systems [SAND-74-0093] VOROTHINOV, V. I. Determination of the surface shapes of film-type solar energy concentrators with seams 07 p0119 A75-36017 VOSS, A. Other primary energy resources 06 p0050 A75-23512 Using systems methods for analysing integrated energy supply, summary [BLL-CE-TRANS-6473-(9022-09)] 07 p0153 B75-26491	bulk energy st [NASA-TH-1-714 WATERS, M. H. Conceptual design [AIAA PAPER 75 Design of short [SAB PAPER 750 WATSON, T. Hon-hazardous pi battery BA-555 [AD-A003312] WATHAH, C. H. Thermodynamic co
Hydrogen distribution profiling 08 p0179 A75-44805 Integration of photovoltaic and solar thermal energy conversion systems [SAND-74-0093] 06 p0076 N75-16992 VOROTHIKOV, V. I. Determination of the surface shapes of film-type solar energy concentrators with seams 07 p0119 A75-36017 VOSS, A. Other primary energy resources Using systems methods for analysing integrated energy supply, summary [BLL-CE-TRANS-6473-(9022.09)] 07 p0153 N75-26491 VOTH, R. O. Selected topics on hydrogen fuel	bulk energy st [NASA-TH-L-71: WATERS, M. H. Conceptual desic [AIAA PAPER 7: Design of short [SAE PAPER 75: WATSON, T. Hon-hazardous pr battery BA-55: [AD-A003312] WAYMAN, C. H. Thermodynamic co engines' baser
Hydrogen distribution profiling 08 p0179 A75-44805 Integration of photovoltaic and solar thermal energy conversion systems (SAND-74-0093) 06 p0076 N75-16992 VOROTHINOV, V. I. Determination of the surface shapes of film-type solar energy concentrators with seams 07 p0119 A75-36017 VOSS, A. Other primary energy resources 06 p0050 A75-23512 Using systems methods for analysing integrated energy supply, summary [BLL-CE-TRANS-6473-(9022.09)] 07 p0153 N75-26491 VOTE, R. O.	bulk energy st [NASA-TH-17-718 WATERS, H. H. Conceptual desic [AIAA PAPER 75 Design of short [SAE PAPER 750 WATSON, T. Hon-hazardous pi battery BA-555 [AD-A003312] WAYHAM, C. H. Thermodynamic oce engines' based transformation WEAVER, R. D. Pollution-free
Hydrogen distribution profiling 08 p0179 A75-44805 Integration of photovoltaic and solar thermal energy conversion systems [SAND-74-0093] 06 p0076 N75-16992 VOROTHIKOV, V. I. Determination of the surface shapes of film-type solar energy concentrators with seams 07 p0119 A75-36017 VOSS, A. Other primary energy resources Using systems methods for analysing integrated energy supply, summary [BLL-CE-TRANS-6473-(9022.09)] 07 p0153 N75-26491 VOTH, R. O. Selected topics on hydrogen fuel	bulk energy st [NASA-TH-1-714 WATERS, M. H. Conceptual design [AIAA PAPER 75 Design of short [SAB PAPER 75 WATSON, T. Hon-hazardous pi battery BA-55 [AD-A003312] WATHAN, C. H. Thermodynamic coengines' based transformation WEAVER, R. D. Pollution-free efform low grade
Hydrogen distribution profiling 08 p0179 A75-44805 Integration of photovoltaic and solar thermal energy conversion systems [SAND-74-0093] 06 p0076 N75-16992 VOROTHIKOV, V. I. Determination of the surface shapes of film-type solar energy concentrators with seams 07 p0119 A75-36017 VOSS, A. Other primary energy resources Using systems methods for analysing integrated energy supply, summary [BLL-CE-TRANS-6473-(9022.09)] 07 p0153 N75-26491 VOTH, R. O. Selected topics on hydrogen fuel	bulk energy st [NASA-TH-I-71] WATERS, M. H. Conceptual desic [AIAA PAPER 7] Design of short [SAE PAPER 75] WATSON, T. Non-hazardous pr battery BA-55; [AD-A003312] WAYNAN, C. H. Thermodynamic occengines' based transformation WEAVER, R. D. Pollution-free from low grade [PB-236162/4]
Hydrogen distribution profiling O8 p0179 A75-44805 Integration of photovoltaic and solar thermal energy conversion systems [SAND-74-0093] VOROTHIKOV, V. I. Determination of the surface shapes of film-type solar energy concentrators with seams 07 p0119 A75-36017 VOSS, A. Other primary energy resources Using systems methods for analysing integrated energy supply, summary [BLL-CE-TRANS-6473-(9022.09)] VOTH, R. O. Selected topics on hydrogen fuel [COM-75-10619/5] W	bulk energy si [NASA-TH-I-718 WATERS, H. H. Conceptual desic [AIAA PAPER 7: Design of short [SAE PAPER 750 WATSON, T. Non-hazardous pi battery BA-55: [AD-A003312] WAYHAM, C. H. Thermodynamic oc engines' based transformation WEAVER, R. D. Pollution-free from low grade [PB-236162/4] WEAVER, T.
Hydrogen distribution profiling O8 p0179 A75-44805 Integration of photovoltaic and solar thermal energy conversion systems (SAND-74-0093) VOROTHINOV, V. I. Determination of the surface shapes of film-type solar energy concentrators with seams 07 p0119 A75-36017 VOSS, A. Other primary energy resources Using systems methods for analysing integrated energy supply, summary (BLL-CE-TRANS-6473-(9022.09)) VOTH, R. O. Selected topics on hydrogen fuel (COM-75-10619/5) WADD, E.	bulk energy st [NASA-TH-I-714 WATERS, M. H. Conceptual desic [AIAA PAPER 7: Design of short [SAE PAPER 750 WATSON, T. Hon-hazardous pi battery BA-55: [AD-A003312] WATMAB, C. H. Thermodynamic coengines' based transformation WEAVER, R. D. Pollution-free of from low grade [PB-236162/4] WEAVER, T. Bew approaches to
Hydrogen distribution profiling 08 p0179 A75-44805 Integration of photovoltaic and solar thermal energy conversion systems (SAND-74-0093) 06 p0076 N75-16992 VOROTHIKOV, V. I. Determination of the surface shapes of film-type solar energy concentrators with seams 07 p0119 A75-36017 VOSS, A. Other primary energy resources Using systems methods for analysing integrated energy supply, summary [BLL-CE-TRANS-6473-(9022.09)] 07 p0153 N75-26491 VOTE, B. O. Selected topics on hydrogen fuel [COM-75-10619/5] 08 p0207 N75-31575 W WADE, E. Solar cell and array standardization for Air Force	bulk energy st [NASA-TH-1-714 WATERS, M. H. Conceptual desic [AIAA PAPER 7: Design of short [SAE PAPER 750 WATSON, T. Non-hazardous pr battery BA-555; [AD-A003312] WAYNAN, C. H. Thermodynamic comengines' based transformation WEAVER, R. D. Pollution-free of from low grade [PB-236162/4] WEAVER, T. Hew approaches to plants
Hydrogen distribution profiling O8 p0179 A75-44805 Integration of photovoltaic and solar thermal energy conversion systems (SAND-74-0093) VOROTHIKOV, V. I. Determination of the surface shapes of film-type solar energy concentrators with seams 07 p0119 A75-36017 VOSS, A. Other primary energy resources O6 p0050 A75-23512 Using systems methods for analysing integrated energy supply, summary (BLL-CE-TRANS-6473-(9022.09)) VOTE, B. O. Selected topics on hydrogen fuel (COM-75-10619/5) WADE, E. Solar cell and array standardization for Air Force spacecraft	bulk energy st [NASA-TH-7-718 WATERS, H. H. Conceptual desic [AIAN PAPER 7: Design of short [SAE PAPER 750 WATSON, T. Hon-hazardous pi hattery BA-55: [AD-A003312] WAYHAM, C. H. Thermodynamic oc engines' based transformation WEAVER, R. D. Pollution-free from low grade [PB-236162/4] WEAVER, T. Bew approaches in plants [UCEL-75443]
Integration of photovoltaic and solar thermal energy conversion systems (SAND-74-0093) 06 p0076 N75-16992 VOROTHINOY, V. I. Determination of the surface shapes of film-type solar energy concentrators with seams 07 p0119 A75-36017 VOSS, A. Other primary energy resources Using systems methods for analysing integrated energy supply, summary [BLL-CE-TRANS-6473-(9022.09)] 07 p0153 N75-26491 VOTH, B. O. Selected topics on hydrogen fuel [COM-75-10619/5] 08 p0207 N75-31575 W WADE, E. Solar cell and array standardization for Air Force spacecraft 05 p0002 A75-10486	bulk energy st [NASA-TH-I-714 WATERS, M. H. Conceptual desic [AIAA PAPER 7: Design of short [SAE PAPER 750 WATSON, T. Hon-hazardous pi battery BA-55: [AD-A003312] WATMAB, C. H. Thermodynamic coengines' based transformation WEAVER, R. D. Pollution-free from low grade [PB-236162/4] WEAVER, T. Hew approaches to plants [UCRI-75443] WEBSTER, D. S.
Integration of photovoltaic and solar thermal energy conversion systems (SAND-74-0093) 06 p0076 N75-16992 VOROTHIKOV, V. I. Determination of the surface shapes of film-type solar energy concentrators with seams 07 p0119 A75-36017 VOSS, A. Other primary energy resources Using systems methods for analysing integrated energy supply, summary [BLL-CE-TRANS-6473-(9022.09)] 07 p0153 N75-26491 VOTE, R. O. Selected topics on hydrogen fuel [COM-75-10619/5] 08 p0207 N75-31575 W WADE, E. Solar cell and array standardization for Air Force spacecraft 05 p0002 A75-10486	bulk energy st [NASA-TH-7-718 WATERS, H. H. Conceptual desic [AIAN PAPER 7: Design of short [SAE PAPER 750 WATSON, T. Hon-hazardous pi hattery BA-55: [AD-A003312] WAYHAM, C. H. Thermodynamic oc engines' based transformation WEAVER, R. D. Pollution-free from low grade [PB-236162/4] WEAVER, T. Bew approaches in plants [UCEL-75443]
Integration of photovoltaic and solar thermal energy conversion systems (SAND-74-0093) 06 p0076 N75-16992 VOROTHINOY, V. I. Determination of the surface shapes of film-type solar energy concentrators with seams 07 p0119 A75-36017 VOSS, A. Other primary energy resources Using systems methods for analysing integrated energy supply, summary [BLL-CE-TRANS-6473-(9022.09)] 07 p0153 N75-26491 VOTH, B. O. Selected topics on hydrogen fuel [COM-75-10619/5] 08 p0207 N75-31575 W WADE, E. Solar cell and array standardization for Air Force spacecraft 05 p0002 A75-10486	bulk energy st [NASA-TH-I-714 WATERS, M. H. Conceptual desig [AIAA PAPER 7: Design of short [SAB PAPER 75: WATSON, T. Hon-hazardous pr battery BA-55: [AD-A003312] WATHAN, C. H. Thermodynamic co engines' based transformation WEAVER, R. D. Pollution-free of from low grade [PB-236162/4] WEAVER, T. Hew approaches of plants [UCRL-75443] WEBSTER, D. S. Bigh energy bate
Hydrogen distribution profiling O8 p0179 A75-44805 Integration of photovoltaic and solar thermal energy conversion systems (SAND-74-0093) 06 p0076 N75-16992 VOROTHIKOV, V. I. Determination of the surface shapes of film-type solar energy concentrators with seams 07 p0119 A75-36017 VOSS, A. Other primary energy resources O6 p0050 A75-23512 Using systems methods for analysing integrated energy supply, summary (BLL-CE-TRANS-6473-(9022.09)) 07 p0153 N75-26491 VOTE, R. O. Selected topics on hydrogen fuel (COM-75-10619/5) 08 p0207 N75-31575 W WADE, E. Solar cell and array standardization for Air Force spacecraft 05 p0002 A75-10486 WADE, G. L. Use of low grade solid fuels in gas turbines (ASME PAPER 74-WA/EHER-5) 05 p0016 A75-16837 WADE, W. B.	bulk energy st [NASA-TH-17-11 WATERS, M. H. Conceptual desig [AIAA PAPER 7: Design of short [SAB PAPER 75: WATSON, T. Hon-hazardous pr battery BA-55: [AD-A003312] WATHAN, C. H. Thermodynamic of engines' based transformation WEAVER, R. D. Pollution-free of from low grade [PB-236162/4] WEAVER, T. Hew approaches of plants [UCRL-75443] WEBSTER, D. S. Bigh energy batt Laboratory [ANL-8064] Development of l
Hydrogen distribution profiling O8 p0179 A75-44805 Integration of photovoltaic and solar thermal energy conversion systems (SAND-74-0093) VOROTHIKOV, V. I. Determination of the surface shapes of film-type solar energy concentrators with seams 07 p0119 A75-36017 VOSS, A. Other primary energy resources O6 p0050 A75-23512 Using systems methods for analysing integrated energy supply, summary (BLL-CE-TRANS-6473-(9022.09)) VOTE, B. O. Selected topics on hydrogen fuel (COM-75-10619/5) WADE, E. Solar cell and array standardization for Air Force spacecraft O5 p0002 A75-10486 WADE, G. L. Use of low grade solid fuels in gas turbines (ASME PAPER 74-WA/ENER-5) TADE, W. H. Basic research needs for tertiary oil recovery:	bulk energy si [NASA-TH-7-718 WATERS, H. H. Conceptual desic [AIAN PAPER 7: Design of short [SAE PAPER 750 WATSON, T. Non-hazardous pi battery BA-55: [AD-A003312] WAYNAM, C. H. Thermodynamic oc engines' base transformation WEAVER, R. D. Pollution-free from low grade [PB-236162/4] WEAVER, T. Hew approaches in plants [UCRL-75443] WEBSTER, D. S. High energy batt Laboratory [ANL-8064] Development of i electric vehice
Hydrogen distribution profiling Integration of photovoltaic and solar thermal energy conversion systems (SAND-74-0093) 06 p0076 N75-16992 VOROTHINOY, V. I. Determination of the surface shapes of film-type solar energy concentrators with seams 07 p0119 A75-36017 VOSS, A. Other primary energy resources 06 p0050 A75-23512 Using systems methods for analysing integrated energy supply, summary [BLL-CE-TRANS-6473-(9022.09)] 07 p0153 N75-26491 VOTH, B. O. Selected topics on hydrogen fuel [COM-75-10619/5] 08 p0207 N75-31575 W WADE, E. Solar cell and array standardization for Air Porce spacecraft 05 p0002 A75-10486 WADE, G. L. Use of low grade solid fuels in gas turbines (ASME PAPER 74-WA/ENER-5) 05 p0016 A75-16837 WADE, W. B. Basic research needs for tertiary oil recovery: Proceedings of a National Science Foundation	bulk energy st [NASA-TH-1-714 WATERS, M. H. Conceptual desic [AIAA PAPER 7: Design of short [SAE PAPER 750 WATSON, T. Hon-hazardous pi battery BA-55: [AD-A003312] WATHAN, C. H. Thermodynamic coengines' based transformation WEAVER, R. D. Pollution-free from low grade [PB-236162/4] WEAVER, T. Hew approaches to plants [UCRL-75443] WEBSTER, D. S. Bigh energy batt Laboratory [ANL-8064] Development of lelectric vehic [ANL-8058]
Integration of photovoltaic and solar thermal energy conversion systems [SAND-74-0093] 06 p0076 N75-16992 VOROTHIKOV, V. I. Determination of the surface shapes of film-type solar energy concentrators with seams 07 p0119 A75-36017 VOSS, A. Other primary energy resources 06 p0050 A75-23512 Using systems methods for analysing integrated energy supply, summary [BLL-CE-TRANS-6473-(9022.09)] 07 p0153 N75-26491 VOTE, R. O. Selected topics on hydrogen fuel [COM-75-10619/5] 08 p0207 N75-31575 W WADE, E. Solar cell and array standardization for Air Force spacecraft 05 p0002 A75-10486 WADE, G. L. Use of low grade solid fuels in gas turbines [ASME PAPER 74-WA/ENEE-5] 05 p0016 A75-16837 WADE, W. H. Basic research needs for tertiary oil recovery: Proceedings of a National Science Foundation WOCKShop	bulk energy st [NASA-TH-1-714 WATERS, M. H. Conceptual desig [AIAA PAPER 7: Design of short [SAB PAPER 75: WATSON, T. Hon-hazardous pi battery BA-55: [AD-A003312] WATHAH, C. H. Thermodynamic co engines' based transformation WEAVER, R. D. Pollution-free of from low grade [PB-236162/4] WEAVER, T. Hew approaches i plants [UCRL-75443] WEBSTER, D. S. High energy batt Laboratory [ANL-8054] Development of l electric vehic [ANL-8058] WEHLAGE, E. P.
Hydrogen distribution profiling O8 p0179 A75-44805 Integration of photovoltaic and solar thermal energy conversion systems (SAND-74-0093) VOROTHIKOV, V. I. Determination of the surface shapes of film-type solar energy concentrators with seams 07 p0119 A75-36017 VOSS, A. Other primary energy resources O6 p0050 A75-23512 Using systems methods for analysing integrated energy supply, summary (BLL-CE-TRANS-6473-(9022.09)) VOTE, B. O. Selected topics on hydrogen fuel (COM-75-10619/5) WADE, E. Solar cell and array standardization for Air Force spacecraft O5 p0002 A75-10486 WADE, G. L. Use of low grade solid fuels in gas turbines (ASHE PAPER 74-WA/ENEE-5) Basic research needs for tertiary oil recovery: Proceedings of a National Science Foundation workshop (PB-236726/6) 06 p0066 B75-16072	bulk energy s: [NASA-TH-7-718 WATERS, H. H. Conceptual desic [AIAN PAPER 7: Design of short [SAE PAPER 750 WATSON, T. Non-hazardous pi battery BA-55: [AD-A003312] WAYNAM, C. H. Thermodynamic ocengines' based transformation WEAVER, R. D. Pollution-free from low grade [PB-236162/4] WEAVER, T. Hew approaches in plants [UCEL-75443] WEBSTER, D. S. High energy batt Laboratory [ANL-8064] Development of i electric vehic [ANL-8058] WEHLAGE, E. P. The role of heat
Integration of photovoltaic and solar thermal energy conversion systems (SAND-74-0093) 06 p0076 N75-16992 VOROTHINOY, V. I. Determination of the surface shapes of film-type solar energy concentrators with seams 07 p0119 A75-36017 VOSS, A. Other primary energy resources 06 p0050 A75-23512 Using systems methods for analysing integrated energy supply, summary [BLL-CE-TRANS-6473-(9022.09)] 07 p0153 N75-26491 VOTH, R. O. Selected topics on hydrogen fuel [COM-75-10619/5] 08 p0207 N75-31575 WADE, E. Solar cell and array standardization for Air Porce spacecraft 05 p0002 A75-10486 VADB, G. L. Use of low grade solid fuels in gas turbines [ASHE PAPER 74-WA/ENER-5] 05 p0016 A75-16837 VADB, W. B. Basic research needs for tertiary oil recovery: Proceedings of a National Science Foundation Workshop [PB-236726/6] 06 p0066 N75-16072	bulk energy st [NASA-TH-I-714 WATERS, H. H. Conceptual desic [AIAA PAPER 75 Design of short [SAE PAPER 75 WATSON, T. Hon-hazardous pi battery BA-55; [AD-A003312] WATHAB, C. H. Thermodynamic coengines' based transformation WEAVER, R. D. Pollution-free of from low grade [PB-236162/4] WEAVER, T. Hew approaches to plants [UCRL-75443] WEBYER, T. Laboratory [ANL-8064] Development of lelectric vehic [ANL-8058] WEHLAGE, E. P. The role of heat energy problem
Hydrogen distribution profiling O8 p0179 A75-44805 Integration of photovoltaic and solar thermal energy conversion systems (SAND-74-0093) VOROTHIKOV, V. I. Determination of the surface shapes of film-type solar energy concentrators with seams 07 p0119 A75-36017 VOSS, A. Other primary energy resources O6 p0050 A75-23512 Using systems methods for analysing integrated energy supply, summary (BLL-CE-TRANS-6473-(9022.09)) VOTE, B. O. Selected topics on hydrogen fuel (COM-75-10619/5) WADE, E. Solar cell and array standardization for Air Force spacecraft O5 p0002 A75-10486 WADE, G. L. Use of low grade solid fuels in gas turbines (ASHE PAPER 74-WA/ENEE-5) Basic research needs for tertiary oil recovery: Proceedings of a National Science Foundation workshop (PB-236726/6) 06 p0066 B75-16072	bulk energy s: [NASA-TH-7-718 WATERS, H. H. Conceptual desic [AIAN PAPER 7: Design of short [SAE PAPER 750 WATSON, T. Non-hazardous pi battery BA-55: [AD-A003312] WAYNAM, C. H. Thermodynamic ocengines' based transformation WEAVER, R. D. Pollution-free from low grade [PB-236162/4] WEAVER, T. Hew approaches in plants [UCEL-75443] WEBSTER, D. S. High energy batt Laboratory [ANL-8064] Development of i electric vehic [ANL-8058] WEHLAGE, E. P. The role of heat

tion of geological and geophysical the Marysville geothermal area 06 p0099 N75-20839 as hydrogen storage media 05 p0030 N75-12440 ixed bed, low BTU coal gasification etrofitting power plants 08 p0211 N75-32602 solar cell shielding for missions 06 p0051 A75-24203 tion from solid waste 06 p0095 N75-19843 coal characteristics to coal behavior 07 p0151 N75-25327 tem and component research program
05 p0037 N75-14280 tem and component research program 07 p0136 N75-22930 y facts for water resources studies 07 p0156 N75-26515 ctromagnetic energy conversion 05 p0026 N75-10609 solar energy today 05 p0012 175-12987 truction of a residential solar ooling system 07 p0109 A75-29472 uel cell power system 07 p0124 a75-37656 surfaces made of semiconducting 05 p0017 A75-16857 4-WA/HT-13] stimates for an electrochemical torage concept 05 p0039 N75-15161 92 <u>)</u> stimates for an electrochemical torage concept 08 p0210 N75-32593 8051 gn of reduced energy transports 5-303] 06 p0047 A75-22508 haul aircraft for fuel conservation 0587] 08 p0169 A75-40502 imary lithium-organic electrolyte 90 (j̄/Ū 07 p0129 H75-21804 onsiderations of 'solid state d on thermoelastic martensitic ns and the shape memory effect 06 p0045 A75-19631 electrochemical power generation e coal 06 p0070 N75-16109 to CTR: General relativistic power 06 p0073 N75-16362 tery program at Argonne Bational 06 p0076 N75-16984 high specific energy batteries for cles 06 p0076 N75-16990 t transfer in solving geothermal ms to accelerate its effective [ASHE PAPER 75-HT-57] 08 p0196 A75-47527

WEHBER, G. K.	WEST, C. D.
Proceedings of the Solar Thermal Conversion Workshop	The Harwell thermo-mechanical generator
[PB-239277/7] Research applied to solar thermal systems [PB-241089/2] 08 p0200 N75-28543	05 p0009 A75-10579 WESTWOOD; I. J. Optimising pumped storage with tidal power in an
Research applied to solar thermal rower systems [PB-241090/0] 08 p0201 H75-28544	estuary [ASME PAPER 74-WA/PWR-7] 05 p0018 A75-1688
WBHRLE, B. D. A review of thermal battery technology	WETHORE, W. C. Puel outlook dictating technical transport research
05 p0007 A75-10557 Review of thermal battery technology	05 p0011 A75-11427
[SLA-74-5381] 06 p0076 N75-16989 WEIL, K. H.	The study of priorities in the electrical energy allocation problem
<pre>Bydrogen as a fuel [AD-A006984]</pre>	[PB-239762/8] 07 p0156 N75-26516
WBIMBBRG, F. J. Combustion R&D - Key to our energy future	The Mitre solar energy demonstration system 06 p0055 A75-24676
05 p0009 A75-10596 WEIBSCHBOTT, D. J.	WHERLOCK, T. D. Coal processing by electrofluids
Electricity conservation measures in the	[PB-236588/0] 06 p0088 N75-18743
commercial sector: The Los Angeles experience [R-1592-FEA] 05 p0034 N75-13388	WHISHAN, M. L. Waste lubricating oil research. A comparison of
WEINSTEIN, A.	bench-test properties of re-refined and virgin
Cooling by solar heat [AIAA PAPER 75-609] 06 p0062 A75-28590	lubricating oils [PB-238124/2] . 06 p0097 B75-20746
WEISBECKER, L. W.	WHITBY, R. H.
The use of hydrogen in commercial aircraft - An assessment	The fuel scene and its impact on the economics of airline operations
05 p0006 A75-10542	08 p0165 A75-39018
WELDOW, D. M. Methods of energy transfer from a magnetic energy	WHITHRY, W. T. Interferometric tuning of a 15-atm CO2 laser
storage system using a transfer capacitor and a superconducting switch	06 p0058 A75-27518
[LA-5631-MS] 05 p0032 N75-13164	WILBUR, P. J. Solar absorption air conditioning alternatives
Magnetic Energy Transfer and Storage (METS) program schedules for a Pusion Test Reactor (PTR)	08 p0167 A75-39410
[LA-5748-MS] 06 p0106 N75-21097 WELLER, S. W.	The oceanic biomass energy plantation [AIAA PAPER 75-635] 06 p0063 A75-28599
Proceedings of the Workshop on Beeds for Fundamental Research in Catalysis as Related to	WILLIAMS, D. A. A heat pump powered by natural thermal gradients
the Energy Problem [PB-236683/9] 06 p0078 N75-17006	05 p0006 A75-10550 WILLIAMS, J. H.
WELLHAM, P. An economic analysis of oil shale operations	Environmental aspects of fusion reactors 08 p0170 A75-41434
featuring gas combustion retorting	WILLIAMS, J. R.
[PB-237851/1] 06 p0093 N75-19813 WELLS, J.	Solar energy: Technology and applications 05 p0012 A75-12425
A high-speed superconducting generator 06 p0060 A75-27960	Solar heating and cooling 07 p0111 175-31269
WELLS, W. G.	Geosynchronous satellite solar power
Advanced nuclear research [GPO-41-253] 05 p0026 N75-10764	07 p0111 A75-31272 Development of a 540-sq-ft prototype faceted fixed
WENTINK, T., JR.	mirror solar concentrator
Wind power potential of Alaska. Part 1: Surface wind data from specific coastal sites	08 p0186 A75-45940 The UF6 Breeder - A solution to the problems of
[PB-238507/8] 06 p0105 N75-20885	nuclear power
WENTORF, R. H., JR. Closed loop chemical systems for energy	08 p0187 A75-45951 Comparison and evaluation of nuclear power plant
transmission, conversion and storage 05 p0005 A75-10538	options for geosynchronous power stations
WENZEL, A. B.	08 p0193 A75-46027
A practical model law for chemical explosive fracture of oil shale	Conceptual design of reduced energy transports [AIAA PAPER 75-303] 06 p0047 A75-22508
06 p0078 N75-17023	Air transportation energy consumption - Yesterday,
WERNER, L. B. Geothermal research and development program of the	today, and tomorrow [AIAA PAPER 75-319] 06 p0047 A75-22515
US Atomic Energy Commission	WILLIAMS, L. O.
06 p0098 N75-20834 WERNER, R. W.	Plectrolysis of sea water 08 p0176 A75-44775
Interesting possibilities of fusion-fission	WILLIAMSON, K. D., JR.
[BNWL-SA-5069] 06 p0096 N75-20106 WENTH, G.	Cryogenics safety in a hydrogen fuel society 06 p0061 A75-27973
Rationale for setting priorities for new energy	WILSON, C. L. Multispectral data systems for energy related
technology research and development [UCRL-51511] 05 p0024 N75-10594	problems
WERTWIJE, R. Thermokinetics of a flat solar collector of	07 p0118 A75-35464 WILSON, D. R.
constant heat capacity	Development of a theoretical method for predicting
08 p0171 A75-41768 WESLING, G. C.	the performance of hydrogen-oxygen MHD generators 05 p0009 A75-10578
A potassium topping cycle for public utility power	WILSON, R. R.
plants [AIAA PAPER 75-1235] 08 p0181 A75-45647	Applied aerodynamics of wind power machines [PB-238595/3] 07 p0133 B75-22669
WEST, A. J.	WILSON, R. P.
Survey of hydrogen compatibility problems in energy storage and energy transmission	Collection and concentration of solar energy using Presnel type lenses
applications	[NASA-CR-142194] 06 p0080 N75-17784
[SAND-74-8219] 06 p0087 N75-18726	

PRESCHAL AUTHOR INDEX WULFINGHOFF, D.

WIND, C. B.	WOOD, L.
Dynamic simulation for performance analysis of solar heated and cooled buildings	Hew approaches to CTR: General relativistic power plants
[ASME PAPER 74-Wa/SOL-8] 05 p0019 A75-16891 SIMSBAC - A simulation program for solar heating	[UCRL-75443] 06 p0073 N75-16362
and cooling of buildings 06 p0061 A75-28093 New dimensions in water heating in the Northwest -	Advanced concepts in fusion-fission hybrid reactors [UCRL-75835] 07 p0131 B75-22113 WOODALL, J. H.
A study of solar energy utilization 08 p0191 A75-45995	A new concept for solar energy thermal conversion 07 p0110 A75-30368
WINTER, S. Rationale for setting priorities for new energy	WOODBURY, J. R. Continued development of energy transmission and
technology research and development [UCRL-51511] 05 p0024 N75-10594	Conversion systems [PB-236181/4] 05 p0037 N75-14278
WISTER, S. D. US energy flow charts for 1950, 1960, 1970, 1980, 1985, and 1990	WOODCOCK, G. R. Boonomics analyses of solar energy utilization 05 p0004 A75-10520
[UCRL-51487] 05 p0024 h75-10593	Derivation of a total satellite energy system [AIAA PAPER 75-640] 06 p0064 A75-29118
Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 H75-12439	Ground based solar energy technology advances 08 p0190 A75-45984
WISE, D. L. Urban waste energy resources	Orbital solar energy technology advances 08 p0192 A75-46018
[AIAA PAPER 75-632] 06 p0062 A75-28598 Fuel gas production from solid waste	WOODCOCK, W. Design and qualification of the CTS solar cell
[PB-238068/1] · 06 p0095 #75-19843	blanket
WISE, J. P. Solar cell and array standardization for hir Force	06 p0053 A75-24248 WOODDALL, J. H.
spacecraft 05 p0002 A75-10486	Technique for producing 'good' GaAs solar cells using poor-quality substrates
WISWALL, R. H. Iron titanium hydride as a source of hydrogen fuel	08 p0195 A75-46721
for stationary and automotive applications [BNL-18651] 05 p0030 N75-12441	Acoustic array methods for instrumentation of in situ coal gasification
WISWALL, B. E., JR. An engineering-scale energy storage reservoir of	[UCID-16591] 06 p0104 N75-20875 WOUTERS, L. P.
iron titanium hydride 08 p0177 A75-44784	Shallow solar pond energy conversion system: An analysis of a conceptual 10-MWe plant
Metal hydrides as hydrogen storage media [BNL-18887] 05 p0030 N75-12440	[UCRL-51533-REV-1] 05 p0028 N75-11467 WRIGHT, C. H.
Metal hydrides as a source of hydrogen fuel	Development of a process for producing an ashless,
[BHL-14804-R] 06 p0104 N75-20876 WITHERSPOOD, P. A. Theory of heat extraction from fractured hot dry	low-sulfur fuel from coal. Volume 2: Laboratory studies. Part 1: Autoclave experiments
rock 06 p0057 A75-26544	[PB-236305/9] 05 p0040 N75-15169 WRIGHT, J. J.
WITHER, J. G. Social and environmental context of the hydrogen	Natural environment design criteria for the Solar Electric Propulsion Stage (SEPS)
economy 08 p0179 A75-44807	[NASA-TM-X-64929] 07 p0138 N75-23682 WRIGHT, J. K.
WOLF, D. A. Application of heat pipes to solar collectors	Can hydrogen transmission replace electricity 08 p0165 A75-38863
08 p0195 A75-46045 Snow and ice removal from pavements using stored	Storing electrical energy on a large scale 08 p0165 A75-38864
earth energy [PB-240623/9] 07 p0162 N75-27581	The potential of natural energy sources 08 p0165 A75-38865
WOLF, M. Methods for low cost manufacture of silicon solar	Will hydrogen transmission replace electricity 08 p0172 A75-42281
arrays [ASME PAPER 74-WA/ENER-4] 05 p0016 A75-16836	WRIGHT, J. P. A flexible cryogenic heat pipe
Historic development of photovoltaic power generation	[AIAA PAPER 75-658] 07 p0114 A75-32916 WRIGHT, L. O.
06 p0051 A75-24215 Process development for low cost integrated solar	Cost and size estimates for an electrochemical bulk energy storage concept
arrays 06 p0054 A75-24259	[NASA-TM-X-3192] 05 p0039 N75-15161 Cost and size estimates for an electrochemical
Photovoltaic power 07 p0111 A75-31271	bulk energy storage concept [BASA-TM-x-71805] 08 p0210 175-32593
Outlook for Si photovoltaic devices for terrestrial solar-energy utilization	WRIGHT, R. R. Legal economic, and energy considerations in the
08 p0181 A75-45509	use of underground space
Research and development of low cost processes for integrated solar arrays [PB-239760/2] 07 p0156 N75-26519	[PB-236755/5] 06 p0080 N75-17749 WO, C. C. Solar sea power
WOLF, S. Hydrogen sponge heat pump	[PB-236997/3] 06 p0082 N75-17821
08 p0194 A75-46035	The MHD power generation system with directly fired coal
The lawrence Berkeley Laboratory geothermal	05 p0009 A75-10577
program in northern Nevada 06 p0100 N75-20845	Alternative strategies for optimizing energy
WOLVERTON, B. C. Bio-conversion of water hyacinths into methane	supply, distribution, and consumption systems on Naval bases. Volume 3: Assessment of total
gas, part 1 [NASA-TM-X-72725] 07 p0160 N75-27564	energy system applications at Naval facilities [AD-A003590] 08 p0202 N75-29550
WOOD, J. R. R. The Shell natural gas airship, and other L.T.A. activities by Aerospace Developments	
[AIAA PAPER 75-932] 07 p0121 A75-37008	

Consideration of ultra-high temperature nuclear heat sources for MHD conversion systems
[AIAA PAPER 75-1258] 08 p0182 A75-45659

YOUNG, W. E.

,	
V	
` T	
YAPPEE, B. L. Lasers investigated for space propuls	ion p0061 A75-28439
YABAGUCHI, B.	povo: 2/3 20433
Superconductive d.c. generator	p0061 A75-27961
Water-splitting system synthesized by	,-
photochemical and thermoelectric ut	ilizations of
	p0190 A75-45994
TABABOTO, B.	
	p0061 A75-27961
YANG, WJ.	
Dynamic response of solar heat storag [ASME PAPER 74-WA/HT-22] 05	p0018 A75-16867
YARYHOVYCH, M. I.	F 0 0.0 10001
Energy-related research and development United States Air Force	ent in the
	p0075 N75-16979
YASUI, R. K.	_
Status of JPL solar powered experimen	ts for
terrestrial applications	p0005 A75-10530
YASUBO, T.	P0003 E73-10330
Production of hydrogen from water usi	ng nuclear
energy. A review	_
	p0093 N75-19824
YATER, J. C. Power conversion of energy fluctuation	
	p0011 A75-11497
YEATS, P. W.	F
Efficient thermo-mechanical generation	
electricity from the heat of radioi	
	p0192 A75-46013
YEH, H. Conservation and better utilization of	f electric
power by means of thermal energy st	
solar heating	
	p0157 N75-26521
Conservation and better utilization of	
power by means of thermal energy st	orage and
solar heating, executive summary [PB-239394/0] 07	p0157 N75-26522
TEH, Y. C. M.	Po 121 B12-20222
A 15% efficient antireflection-coated	
metal-oxide-semiconductor solar cel	.1
07	DA110 175-26275

08 p0192 A75-46012

06 p0081 N75-17787

05 p0010 A75-11107

06 p0066 N75-15781

06 p0077 #75-16993

06 p0080 N75-17749

07 p0159 N75-27554

06 p0105 N75-20887

```
¥U. H.-C.
   Cooling a light industrial building in Puerto Rico
      using solar energy
[AIAA PAPER 75-612]
                                                08 p0170 A75-41178
10. W.-S.
   High efficiency power conversion cycles using
      hydrogen compressed by absorption on metal
      hydrides
                                                08 p0194 A75-46034
YUMORI, I. R.
   Seaward extension of urban systems: The feasibility of offshore coal-fired electrical
      power generation [COM-75-10592/4]
                                                08 p0208 N75-31579
YUROVSKII, A. Z.
Sulfer in coals
[TT-70-57216]
                                                07 p0155 N75-26503
                                  Z
BACKAY, V. P.
   Cryogenic properties of Pe-Hn and Pe-Hn-Cr alloys [LBL-2764] 06 p0066 H75-15
                                                06 p0066 N75-15781
BAHAVÌ, J.
   Bconomic-environmental power dispatch
                                                07 p0128 N75-21791
EAKHIDOV, R. A.
   Study of energy distribution in the field of
concentration of a solar power plant with a
hyperboloid counterreflector
   05 p0010 A75-11195
Energy distribution in the concentration field of
      a solar installation with a hyperboloidal
      counter-reflector
                                                06 p0049 A75-23407
   Solar heating and cooling of buildings using heat
      pumps /Brief survey/
  07 p0116 A75-34321
Bnergy distribution in the concentration field of
      a two-mirror device with a paraboloidal back
      reflector
                                                07 p0122 A75-37157
   Use of solar heat pumps for heating and air conditioning - A brief survey
                                               08 p0170 A75-41534
   Calculation of the radiant energy field for a biparaboloidal radiation furnace with a carbon arc
                                               08 p0170 A75-41540
EARE, R.
   Workshop in Gas-Phase Holecular Interactions and
      the Nation's Energy Problem
       [PB-236712/6]
                                               06 p0086 N75-18718 ·
EMTELEPIN, V. N.

Effect of inhomogeneity of conductivity on end
effect in a sectional MHD generator
                                               07 p0119 A75-36233
EAVRACKY, P. H.
Transparent heat-mirror films of TiO2/Ag/TiO2 for
      solar energy collection and radiation insulation
05 p0015 A75-16378
   Hydrogen as energy storage element
                                                08 p0176 A75-44772
 Site limitations on Solar Sea Power Plants
[AIAA PAPER 75-618] 06 p0062
                                               06 p0062 A75-28594
   Poam solar sea power plant
                                               07 p0124 A75~37850
   Solar sea power
[PB-235469/4]
Solar sea power
                                               05 p0038 875-14284
[PB-236997/3] 06 p0082 B
ERRHOOT, P. S.
Interfuel substitution in the consumption of
                                               06 p0082 #75-17821
      energy in the United States.
                                            Part 1:
      Residential and commercial sector
[PB-234536/1] 05 p0040 H75-1
ZHOK, V. I.
Hethod of calibrating a solar power plant with a
                                               05 p0040 N75-15178
      paraboloidal mirror
                                               07 p0116 A75-34315
ZIEGLER, J. P.
   A new concept for solar energy thermal conversion
                                               07 p0110 A75-30368
```

YEN. J. T.

YORK.

YERSHOV, A. A. Solar energy

c. 1.

YOUNG, H. W.

YOURG, N. B.

Colorado [PB-240669/2]

[PB-238082/2]

[NASA-TT-P-16155]

[WASH-1337-5-DRAFT]

[PB-236755/5]

use of underground space

Tornado-type wind energy system

IIP, P. C.
A design parameter for assessing wicking capabilities of heat pipes
[AIAA PAPER 74-1266] 05 p00

YOROTA, H. J.
Cryogenic properties of Fe-Hn and Fe-Hn-Cr alloys
[DBL-2764] 06 p0066 H75-15

Solar energy program plan for heating and cooling buildings

Legal economic, and energy considerations in the

YOUNG, L. E.
SEPS solar array design and technology evaluation
08 p0192 A75-46016

Solar energy - The physics of the greenhouse effect 07 p0120 A75-36306

Determination of carbonate minerals of Green River

formation oil shales, Piceance Creek Basin,

YOUNG, W. C.
Wisconsin superconductive energy storage project,

EIMBRE, R. P.

Benefit-cost methodology study with example application of the use of wind generators [NASA-CR-134864] 08 p0207 N75-31571

ZIMBRENAN, H. B.

The economics of coal-based synthetic gas 08 p0168 A75-39925

ZIMBERHAM, W. P.

A potassium topping cycle for public utility power plants [AIAA PAPER 75-1235] 08 p0181 A75-45647

ZOSCHAK, R. J.

A central receiver solar power plant in a hybrid mode of operation [AIAA PAPER 75-628] 06 p0062 A75-28596

ZUBALY, R.

Fuel conservation in ship operations [COM-75-10466/1] 08 p0202 N75-29270

ZUBIGLE, B. L.

Technological feasibility of alternative energy sources [AD-A005549] 08 p0199 N75-28522

ZYGIELBAUM, P. S.

Potential for large-scale energy storage in electric utility systems [ASME PAPER 74-WA/ZNER-9] 05 p0016 A75-16840

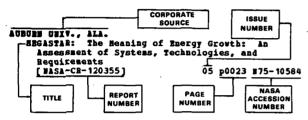
CORPORATE SOURCE INDEX

An interdisciplinary engineering approach to a

ENERGY / A Continuing Bibliography (Issue 8)

FEBRUARY 1976

Typical Corporate Source Index Listing



The title of the document is used to provide a brief description of the subject matter. The issue, page number and NASA or AIAA accession number are included in each entry to assist the user in locating the abstract in the abstract section of an individual supplement of Energy. If applicable, a report number is also included as an aid in identifying the document.

ADVANCED KINETICS, IEC., COSTA BESA, CALIF.
Chemical to electromagnetic energy conversion techniques 05 p0026 N75-10609 [AD-783901] ADVISORY GROUP FOR ARROSPACE RESEARCH AND DEVELOPMENT, PARIS (FRANCE). The 1974 AGARD Annual Meeting: The energy problem: Impacts on military research and development 06 p0075 N75-16977

ABG-TELEPOHERH, BACKNAMG (WEST GERMANY).
Analysis of technological development problems
posed by use of orbital systems for energy
conversion and transfer in and from space 08 p0199 N75-28517

ABG-TELEPUNKEN, HARBUBG (WEST GERNANY).
Solar generator and power systems for
communication satellites

08 p0206 N75-31165 ABBOJET LIQUID BOCKET CO., SACRABEBOO, CALIF.

Development and evaluation of a Stirling-Cycle

07 p0136 N75-22918

pevelopment and evaluation of a Stirling-Cy energy conversion system
[PB-239086/2] 07 p0136 N7.

BENOJET NUCLEAR CO., IDAHO FALLS, IDAHO.
Idaho geothermal R and D project report for period 16 December 1973 - 15 March 1974
[ANCR-1155] 06 p0076 N7. [ANCR-1155] 06 p0076 N75-16985 AIR FORCE ABRO PROPULSION LAB., WRIGHT-PATTERSON

AFB. ORIO. Evaluation of an icn exchange membrane fuel cell

for space power [AD-786888] 05 p0037 N75-14274 The role of computers in future propulsion

controls 07 p0137 N75-23582

AIR PORCE DEPT., WASHINGTON, D.C.
Energy-related research and development in the United States Air Porce

AIR PORCE IEST. OF TECH., WRIGHT-PATTERSON AFB, OHIO.

An interdisciplinary engineering approach to a facility design study with emphasis on energy conservation. Volume 2: Hain report text [AD-A006804]

On poly 2 N75-24129 06 p0075 N75-16979 An interdisciplinary engineering approach to a facility design study with emphasis on energy conservation. Volume 1: Executive summary [AD-A006803] 07 p0149 H75-25304

facility design study with emphasis on energy conservation. Volume 3: Appendices [AD-A006805] 07 p0149 N75-25305 AIR PORCE SYSTEMS COMMAND, WRIGHT-PATTERSON APB, OHTO. Development of solar engineering in the USSR [AD-784708] 05 p0025 B75-10597 [AD-784708]

Energy characteristics of coaxial plasma source
[AD-787419]

Erecting gas storage facilities and oil centers
[AD-A006559]

Thermal diagrams of thermoelectrical devices
[AD-787420]

Evaluation of the energy perfection of the
different forms of transport
[AD-006562]

O7 p0137 #75-23302 [AD-A006562] 07 p0137 #75-23392
AIR PRODUCTS AND CHEMICALS, INC., MARCUS HOOK, PA.
Engineering and cost study of air pollution
control for the petrochemical industry, volume
3: Ethylene dichloride manufacture by oxychlorination [PB-240492] 07 p0162 H75-27612 ALABAHA BHERGY HANAGEMENT BOARD, MONTGOMERY. Petroleum in Alabama [PB-237353/8] 06 p0085 N75-18442 Coal in Alabama [PB-236583/1] 06 p0088 N75-18736 Watural gas in Alabama [PB-236582/3] [PB-236582/3]
ALASKA UHIV., COLLEGE.
Wind power potential of Alaska. Part 1:
Surface wind data from specific coastal sites
06 p0105 B75-20885 ALLIED CHEMICAL CORP., IDAHO FALLS, IDAHO.

Possibilities for lithium borohydride recycle
[ICP-1054] 06 p0074 875-16651 AMERICAN BAR FOUNDATION, CHICAGO, ILL. Proceedings of a Workshop on Solar Energy and the Law
[PB-241051/2] 08 p0201 H75-2
AMRRICAN CYANAMID CO., STAMFORD, COMM.
Research on cadmium stannate selective optical
films for solar energy applications 08 p0201 N75-28551 PB-236208/51 06 p0071 H75-16117 AMERICAN GAS ASSOCIATION, INC., ARLINGTON, VA.
A survey of LNG technological needs in the USA:
1974 to beyond 2000 05 p0030 #75-12435 AMERICAN PUBLIC TRANSIT ASSOCIATION, WASHINGTON, D.C. Papers and proceedings of two energy crisis seminars [PB-239164/7] 07 p0156 N75-26513 AMERICAN TRANSIT ASSOCIATION, WASHINGTON, D.C. Papers and proceedings of two energy crisis seminars [PB-239164/7] 07 p0156 B75-26513 APPLIED PHYSICS LAB., JOHNS HOPKINS UNIV., SILVER SPRING, MD. Engine development program for the APL remotely piloted wehicle [AD-787507] 06 p0065 #75-15658 The multirim superflywheel [AD-A001081] 06 p0085 #75-18594 APPLIED URBANSTICS, INC., WASHINGTON, D.C.
Project conserve, a pilot project in homeowner energy conservation [PB-240407/7] ARGONNE NATIONAL LAB., ILL. Reduction of atmospheric pollution by the application of fluidized-bed combustion
[PB-235840/6] 06 p0072 N75-16151 Bigh energy battery program at Argonne National

Laboratory [ANL-8064]

06 p0076 N75-16984

Development of high specific energy batteries for electric vehicles
[AHL-8058] 06 p0076 H75-16990 Status and outlook for energy conversion via
fuel cells
[COBF-740462-1] 06 p0087 B75-18729 Development of lithium/sulfur cells for
application to electric automobiles [COMP-740805-7] 06 p0094 H75-19829
Environmental regulations and energy for home
heating [PB-240699/9] 08 p0203 N75-29587 ARISONA STATE PHRE AND ENERGY OPPICE PROPERTY.
ARISONA STATE FUEL AND EMERGY OFFICE, PHOEMIX. Putting the sun to work: A history and directory of currently available solar energy
applications [PB-238189/5] 07 p0129 N75-21810
ARIZONA STATE UNIV., TEMPE. An intercell heat pipe for fuel cell and battery
cooling [AD-782888] 05 p0027 N75-11226
Terrestrial photovoltaic power systems with sunlight concentration
[PB-236180/6] 06 p0072 N75-16120
Terrestrial photovoltaic power systems with sunlight concentration
[PB-238582/1] 06 p0105 N75-20886 Terrestrial photovoltaic power systems with
sunlight concentration
[PB-238506/0] 07 p0143 N75-24136 ARIZONA UNIV., TUCSON.
Chemical vapor deposition research for
fabrication of sclar energy convertors [PB-235481/9] 05 p0041 N75-15185
Research applied to solar-thermal power systems:
Chemical vapor deposition research for fabrication of solar energy convertors
[PB-234565/0] 05 p0041 N75-15186
Chemical vapor deposition research for fabrication of sclar energy convertors
[PB-236189/7] 06 p0072 N75-16119
Regional economics: A subset of simulation of the effects of coal-fired power development in
the four corners region 06 p0107 N75-21153
Solar photothermal power conversion 07 p0139 875-24100
Chemical wapor deposition research for
fabrication of solar energy converters [PB-238947/6] 07 p0143 N75-24137
Symposium on the Material Science Aspects of Thin Film Systems for Solar Energy Conversion
[PB-239270/2] 07 p0144 N75-24150
The impact of energy development on water resources in arid lands. Literature review
and annotated hibliography
[PB-240008/3] 07 p0157 N75-26550 ARMY AIR MOBILITY RESEARCH AND DEVELOPMENT LAB.,
CLEVELAND, OHIO.
A compressor designed for the energy research and development agency automotive gas turbine
program
[HASA-TH-X-71719] 07 p0141 H75-24116 ARBY CHEMICAL CENTRE, EDGEWOOD, HD.
Proceedings of 5th annual symposium: Energy Research and Development
[AD-A007799] 07 p0144 N75-24142
ARMY COLD REGIONS RESEARCH AND ENGINEERING LAB., HANOVER, M.H.
Management of power plant waste heat in cold regions
[AD-A003217] 06 p0104 N75-20881
ARMY ELECTRONICS COMMAND, FORT MONMOUTH, H.J. Cylindrical erbium oxide radiator structures for
thermophotovoltaic generators [AD-A001525] 07 p0129 N75-21806
AREN BLECTRONICS TECHNOLOGY AND DEVICES LAB., FORT
BOHROUTH, M.J. Wickel-zinc batteries for hybrid vehicle operation
[PB-239710/7] 07 p0156 N75-26514
ARMY FOREIGH SCIENCE AND TECHNOLOGY CRETER, CHARLOTTESVILLE, VA.
Standriged wind electric power unit
[AD-783764] 05 p0025 H75-10598 Devices based on thermoelectrical phenomena
[AD-783821] 05 p0026 H75-10836
Geothermal power station [AD-785948] 05 p0037 #75-14275
- -

```
Wind and solar power engineering 05 p0039 B75-15168
    Thermodynamic analysis and parameter optimization of a solar thermoelectric power
    unit with radiation heat dissipation
[AD-A000211]

The HHD generator: A step toward the energy
supply of tomorrow
       [ AD-A000087]
                                                   06 p0089 #75-18749
    The generator of the future
                                                  06 p0089 #75-18754
       [AD-A001515]
    Improving the oil storage system of western
       Siberia
       [AD-A002717]
                                                   06 p0092 #75-19705
    Results of work on thermoemission conversion
[AD-A002655] 07 p0131 #75-22114
Investigation of characteristics of
       magnetohydrodynamic generators in industrial
power plants
[AD-A008343]
O7 p

ARMI WAR COLL., CARLISLE BARRACKS, PA.
Oil for the free world in the 1970's
[AD-779352]
O5 p
                                                   07 p0149 N75-25307
                                                   05 p0031 H75-12448
    Economic impact on the free world of the oil crisis, October 1973 - March 1974 [AD-MO03136] 06 p0107 N75-Materials and the new dimensions of conflict,
                                                   06 p0107 N75-21156
    revised version
[AD-A004263] 07 p0154 #75-264
Technological feasibility of alternative energy
                                                   07 p0154 #75-26499
       sources
       [ AD-A005549]
                                                   08 p0199 #75-28522
    Oil and US policy
[AD-A006473]
                                                  08 p0203 N75-29558
ATOMIC BEERGY BOARD, PRETORIA (SOUTH AFRICA).

Brief examination of the status of nuclear power in the republic, using 1974 costs
       [ PEL-237E]
                                                  07 p0135 N75-22909
ATOHIC ENERGY COMMISSION, OAK RIDGE, TERM.
Solar energy: A bibliography
[TID-3351] 06 p010
[TID-3351] 06 p0103 N75-20871
ATOMIC ENERGY COMMISSION, WASHINGTON, D.C.
    Coal processing: Gasification, liquefaction
       desulfurization: A bibliography, 1930 - 1974
[TID-3349] 05 p0023 N75-10578
    Energy transportation, distribution, and storage
[WASH-1281-4] 05 p0024 875-10595
    DCTR power supply and energy storage review
       meeting
       [ WASH-1310 ]
                                                  05 p0031 N75-12445
    Huclear power growth, 1974 - 2000
[WASH-1139-74]
                                                  05 p0031 N75-12723
    Pusion power by magnetic confinement
    [WASH-1290] 05 p0031 N75-12797
Status and objective of Tokamak systems for
       fusion research
       [ WASH-1295]
                                                  05 p0035 N75-13644
    Solar energy program plan for heating and cooling buildings
[WASH-1337-5-DRAFT] 06 p0077 1
    [WASH-1337-5-DRAFT] 06 p0077 E75-16993
Geothermal research and development program of
       the US Atomic Energy Commission
                                                  06 p0098 #75-20834
    Energy R/D Data Workshop
[PB-237493/2] 07 p0130 875-2181
ATOBIC EBERGY OF CANADA LTD., CHALK RIVER (OBTARIO).
                                                  07 p0130 H75-21811
    Review of the prospects for laser induced
      thermonuclear fusion
      [ AECL-4840 ]
                                                  06 p0106 N75-21099
AUBURN UNIV., ALA.
BEGASTAR: The Beaning of Energy Growth: An
      Assessment of Systems, Technologies, and
       Requirements
                                                  05 p0023 #75-10584
      [ NASA-CR-120355 ]
    05 p0033 875-13381
    Solvent refined coal studies
[PB-238532/6] 07 pt
AUSTRALIAN INST. OP NUCLEAR SCIENCE AND
ENGINEERING, LUCAS HEIGHTS.
Ainse Engineering Conference
                                                  07 p0134 H75-22897
[COMP-740814-ABSTS] 07 p0129
AVCO-EVERETT RESEARCH LAB., EVERETT, MASS.
HHD power generation (Viking Series) with
                                                  07 p0129 N75-21801
      hydrocarbon fuels, part 3
      [ AD-A0042167
                                                  07 p0155 N75-26502
```

```
B
B & K EMGIBERRING, INC., TOWSON, ND.
ERTS-C (Landsat 3) cryogenic heat pipe
experiment definition
(NASA-CR-143797)

BARBER-COLHAN CO., IRVINE, CALIF.
Production of gaseous fuel by pyrolysis of
municipal solid waste
(NASA-CR-141791)

BATTRILE COLUMBUS LABS.. OHIO.
                                                              07 p0138 N75-23882
                                                              07 p0140 N75-24105
BATTELLE COLUMBUS LABS., OHIO.
Design installation and operation of a 25
         ton-a-day coal gasification process
development unit for the agglomerating
burner-gasification
          [PB-237625/9]
                                                              06 p0087 N75-18734
      Study of potential problems and optimum
         opportunities in retrofitting industrial processes to low and intermediate energy gas from coal
         [PB-237116/9]
                                                              06 p0088 #75-18739
      Energy R/D Data Workshop
[PB-237493/2]
A review of the Project Independence report
submitted to Office of Energy Research and
Development, National Science Foundation, 10
                                                              07 p0130 N75-21811
         January 1975 [PB-238791/8]
                                                              07 p0131 N75-21823
      Characterization of sulfur recovery from
      refinery fuel gas
[PB-239777/6] 07 p0151 N
Various research tasks related to energy
information and data activities: Task 4
                                                              07 p0151 N75-25326
      priorities analysis
[PB-240424/2] 07 p0151
Various research tasks related to energy
                                                              07 p0151 N75-25329
          information and data activities. Task 2
         national energy indexing schemes:
Characterization of problem
      [PB-240423/4] 07 p0152 N75-2
Assessment of the potential of clean fuels and
                                                             -07 p0152 N75-25774
energy technology
[PB-239970/7]

BATTELLE MEMORIAL IEST., RICHLAND, WASE.
A process for cleaning and removal of sulfur
                                                              07 p0162 N75-27583
compounds from low Btu gases
[PB-236522/9] 06 p00

BATTELLE-WORTHWEST, RICHLAND, WASH.
Methanol from forestry, aunicipal, and
agricultural organic residues
[PNULSE-5652]
                                                              06 p0065 N75-15768
                                                              06 p0085 N75-18702
         [BNWL-SA-5053]
      Coal structure and reactivity
         [TID-26637]
                                                              06 p0097 N75-20805
      The Marysville, Montana Geothermal Project
                                                              06 p0100 N75-20849
      Energy and fixed nitrogen from agricultural residues
         [BNWL-SA-5070]
                                                              06 p0103 N75-20874
BATTELLE PACIFIC HORTHEEST LABS., RICHLAED, WASH.
Interesting possibilities of fusion-fission
[BNWL-SA-5069] 06 p0096 H75-2
                                                              06 p0096 N75-20106
      Assessment of uranium and thorium resources in
         the United States and the effect of policy
         alternatives
         [PB-238658/9]
                                                              07 p0143 875-24133
      Strontium fluoride research in heat source and
         compatibility tests
         [BNWL-1845-2]
                                                              07 p0152 N75-25695
      [BNWL-1845-4] To point programs
[BNWL-1845-4] To point point programs
Strontium heat source used.

[BNWL-1845-4]

BECHTEL CORP., SAN FRANCISCO, CALIF.

Electric power generation using geothermal brine resources for a proof of concept facility

06 p0101 N75-20857
      Path to self-sufficiency directions and
         constraints
      [PB-239099] 07 p014
Path to self-sufficiency directions and
                                                              07 p0142 N75-24128
Constraints, appendices
[PB-239100/1] 07 p0145 N7
BBNDIX CORP., ANN ARBOR, MICH.
Determine utility of ERTS-1 to detect and
monitor area strip mining and reclamation
[PB-24271 07 p0158 N7
                                                              07 p0145 N75-24155
         [ E75-10327]
                                                              07 p0158 N75-27515
```

```
BERKSHIRE COUNTY REGIONAL PLANNING COMMISSION,
PITTSFIELD, MASS.
Evaluation of power facilities; A reviewer's
        handbook
        [ PB-239221/5]
                                                         07 p0146 N75-24198
BSYCHOK (HILTOW R.), IRVINE, CALIF.
Process and environmental technology for
producing SNG and liquid fuels
        [PB-242774/8]
                                                         08 p0212 N75-33491
BLACK AND VRATCH CONSULTING ENGINEERS, KANSAS CITY,
     Dynamic conversion of solar generated heat to
    electricity
[NASA-CR-134724]
[NASA-CR-134724]
Solar thermal conversion program. Central receiver POCB project, subsystem specifications studies
                                                         06 p0066 N75-16079
[PB-238002/0] 0
BOBING ABROSPACE CO., SEATTLE, WASH.
                                                         06 p0087 N75-18733
BORING ARROSPACE CO., SEATTLE, WASH.

Puture space transportation systems systems analysis study, phase 1 technical report
[WASA-CR-141856] 07 p0147 W75-24802

BORING COMMERCIAL AIRPLANE CO., SEATTLE, WASH.

Fuel conservation possibilities for terminal area compatible aircraft
        [NASA-CR-132608]
                                                         06 p0091 N75-19224
BOBING VERTOL CO., PHILADELPHIA, PA.

Documenting helicopter operations from an energy standpoint
        [ NASA-CR-132578]
                                                         06 p0084 N75-18220
BONNER AND MOORE ASSOCIATES, INC., HOUSTON, TRY.
Bonnesic system analysis of coal preconversion
        technology
        [PB-239383/3]
                                                         07 p0151 N75-25325
        CORP. SOURCE FOR BT249037DELETED
    The impact of energy shortages on the iron and steel industries
        [ PB-238749/6 ]
                                                         07 p0145 N75-24158
BOOZ-ALLEH AND HAMILTON, INC., BETHESDA, MD.
Alternative strategies for optimizing energy
supply, distribution, and consumption systems
on Maval bases. Volume 3: Assessment of
        total energy system applications at Naval facilities
        [ AD-A003590]
                                                         08 p0202 N75-29550
BOSTON COLL, CHRSTNUT HILL, MASS.
Columnar silicon film solar cells for
        terrestrial applications
        [PB-238534/2]
[PB-238539/2]
BOSTON URIV., MASS.
Photochemical conversion of solar energy
[PB-236266/3]
05 p0037 N75-14281
                                                         07 p0135 N75-22916
     [PB-236266/3] 05 p0037
Photochemical conversion of solar energy
        [PB-235474/4]
                                                         05 p0038 N75~14282
     Photochemical conversion of solar energy [PB-235503/0] 06 p0070 N75-16106
     Photochemical conversion of solar energy

Or policy N75-24132

Or policy N75-24132
BRITISH LIBRARY LENDING DIV., BOSTON SPA (ENGLAND).
    State of the art and prospects for electric vehicles
       [BLL-OA-TRANS-1250-(6196.3)] 06 p0074 N75-16712
    Lead accumulator batteries in telecomunications [BLL-TRANS-2943-(9022.81)] 06 p0074 N75-169 Energy from the earth's depths [BLL-M-23516-(5828.4F)] 06 p0074 N75-169
                                                         06 p0074 N75-16967
                                                         06 p0074 N75-16968
     Dry oil
        [BLL-M-23508-(5828.4F)]
                                                         06 p0074 N75-16969
     Utilizing fuel more efficiently in reheating and
       heat treatment furnaces [BLL-M-21957-(5828.4F)]
    [BLL-M-21957-(5828.4F)] 06 p0080 N75-17467
Exploration of Antarctica: Past and present
[BLL-M-23343-(5828.4F)] 06 p0080 N75-17722
The action of EDF in the prevention of
atmospheric polymetrs
        atmospheric pollution
        [BLL-CE-TRANS-6500-(9022.09)] 06 p0083 N75-17833
    Steps into the future. Development of the power industry in the USSR [BLL-M-23330-(5828.4F)] 06 p0085 N75-187
                                                         06 p0085 N75-18714
     Man-made sun. Thermonuclear engineering
       developments [BLL-M-23333-(5828.4P)]
                                                         06 p0091 N75-19014
     Using systems methods for analysing integrated
    energy supply, summary
[BLI-CE-TRANS-6473-(9022.09)] 07 p0153 N75-26491
Utilisation of waste heat from inductive melting installations
       [BLL-OA-TRANS-949-(6196.3)] 07 p0153 N75-26492
```

```
Solids emission from power station furnaces
[BLL-CE-TRANS-6524-(9022.09)] 07 p0157 N75-26528
The influence of the petrology of the Karagandin
         coals on their methane contents
         [BLL-RTS-9309]
                                                              07 p0158 N75-27511
      Soviet energy potential [BLL-M-23413-(5828.4F)]
                                                              08 p0199 N75-28516
BRITISH STEEL CORP., SHEPPIELD (REGLAMD).

The gasification of coal: A bibliography
      [PB-234294/7] 05 p0034 N75-13400
Coal petrography and petrology. A bibliography
         1964 - 1973
[PB-236351/3]
                                                              06 p0072 N75-16123
BROOKHAVEN NATIONAL LAB., UPTON, N.Y.
      Applications of fusion power technology to the chemical industry
         [BNL-18815]
                                                              05 p0029 N75-11730
      Metal hydrides as hydrogen storage media
[BNL-18887] 05 p0030 N75-12440
Iron titanium hydride as a source of hydrogen
         fuel for stationary and automotive applications
         [BNL-18651]
                                                              05 p0030 N75-12441
     Survey of applications of fusion power
technology to the chemical and material
processing industry
                                                            05 p0031 N75-12443
         [BNL-18866]
     Energy storage for utilities via hydrogen systems
[BNL-19266] 06 p0086 N75-18725
      Energy systems analysis and technology
         assessment program [BNL-18984]
                                                              06 p0094 N75-19831
      Hydrogen storage and production in utility systems [BNL-18920] 06 p0097 H75-20580
      Hydrogen economy: A utility perspective
      [BBL-19267] 06 p0103 H75-20870
Hydrogen storage and production in utility systems
[BBL-19249] 06 p0103 H75-20873
      Hetal hydrides as a source of hydrogen fuel
[BNL-14804-R] . 06 p0104 N75-20876
Synthetic fuels from fusion reactors
         [BNL-19351]
                                                              06 p0106 N75-21098
     Synopsis of studies on synthetic fuels production by fusion reactors
                                                              06 p0106 N75-21104
         [BNL-19336]
      Coal combustion and desulfurization in a
COAL COMBUSTION AND DESCRIPTION IN A rotating fluidized bed reactor

[BNL-19308] 07 p0129 875-21799

BUREAU OF HINES, ANCHORAGE, ALASKA.

Natural gas fields, Cook Inlet Basin, Alaska

[PB-235767/1] 06 p0066 875-16071

BUREAU OF HINES, BARTLESVILLE, OKLA.

Waste lubricating oil research. A comparison of
         bench-test properties of re-refined and virgin
         Imbricating oils
         [PB-238124/2]
                                                              06 p0097 N75-20746
BURBAU OF MINES, DALLAS, TEX.

Profitability analysis of producing crude oil by
waterflooding using a simulation technique
PB-237843/8]

BURBAU OF BIBES, GRABD FORKS, B.DAK.

Technology and use of lignite

[PB-238666/2]

BURBAU OF BIBES, LARAILE, WYO.

Preliminary evaluation of underground coal gasification at Banna, Wyoming

[BM-TPR-82]

O5 p0025 B75-10599
      [BH-TPR-82] 05 p0025 B75-10
Retorting indexes for oil-shale pyrolyses from ethylene-ethane ratios of product gases
      [PB-234050/3] 05 p0034 N75-13399
The identification of gamma-valerolactone in
     waste from an oil-shale in situ retort
[PB-240098/4] 07 p0147 875-24852
Pulsed nuclear magnetic resonance studies of oil
shales--estimation of potential oil yields
[PB-240023/2] 07 p0148 875-25283
      Shale retorting in a 150-ton batch-type pilot
         plant
[PB-240263/4]
                                                              07 p0151 N75-25328
      Determination of carbonate minerals of Green
         River formation oil shales, Piceance Creek
         Basin. Colorado
         [PB-240669/2]
     Producing SHG by hydrogasifying in situ crude
         shale oil
         [BB-240841/7]
                                                              08 p0201 N75-28548
BURBAU OF HIBES, HORGARTOWN, W.VA.
Bureau of Mines energy program,
[PB-234682/3]
                                                              05 p0040 B75-15172
```

```
Relationships of earth fracture systems to productivity of a gas storage reservoir [PB-237894/1] 06 p0089 N
                                                            06 p0089 N75-18759
      An economic analysis of oil shale operations
featuring gas combustion retorting
[PB-237851/1]
BUBEAU OP HIMES, PITTSBURGH, PA.
Degasification of the Mary Lee coalbed near Oak
Grove, Jefferson County, Alabama, by vertical
                                                            06 p0093 N75-19813
        borehole in advance of mining [BM-RI-7968]
                                                           05 p0028 N75-11462
     The reserve base of bituminous coal and anthracite for underground mining in the
         Eastern United States
      [PB-237815/6] 06 p0085 H75-18713
Methane in the Pittsburgh coalbed, Washington
        County, Pennsylvania
[PB-237848/7]
                                                            06 p0089 N75-18760
      Low-temperature evolution of hydrocarbon gases
         from coal
        [PB-238322/2]
                                                            07 p0139 N75-24074
     The mine map repository: A source of mine map
        data
        [PB-240136/2]
                                                            07 p0148 N75-25288
      Methane emission from U.S. Coal mines in 1973, a
        survey
        [PB-240154/5]
                                                            07 p0152 N75-25354
     Mass spectrometric analysis of product water
        from coal gasification [PB-240835/9]
                                                            07 p0158 N75-27120
     [PB-240033/7]
Conversion of cellulosic wastes to oil
FPR-240839/11 07 p0161 N75-27572
     In situ combustion of coal for energy
[PB-241892/9] 08
BURBAU OF MINES, SAN FRANCISCO, CALIP.
                                                            08 p0211 N75-32603
     Solvent stimulation tests in two California
        oilfields
[PB-237849/5] 06 p0090 N75-10 BUREAU OF MINES, TWIN CITIES, MINN.
Extracting minerals from geothernal brines: A
                                                           06 p0090 N75-18761
        literature study
[PB-240681/7] 08 p0202 N75-295
BUREAU OF HINES, WASKINGTON, D.C.
Bureau of Hines research 1973. Summary of
significant results in mining, metallurgy, and
                                                            08 p0202 N75-29545
        energy
[PB-234733/4]
                                                           05 p0040 N75-15171
     Bureau of Mines research programs on recycling
    Bureau of Mines research programs on recycling and disposal of mineral, metal, and energy-based wastes
[PB-227476/9]

Puel and energy data: United States by states and regions, 1972
[PB-236581/5]

The 1973 fuel and electrical energy requirements of selected mineral industries activities

07 p0134 N75-22899
Chemistry of organic sulfur compounds contained in petrolems and petrolems products, Volume 7
        in petroleums and petroleum products, Volume 7 [TT-70-57759] 07 p0138 N75-23691
     Sulfer in coals
[TT-70-57216]
                                                           07 p0155 N75-26503
     A summary of significant results in mining
        metallurgy and energy, Bureau of Bines
Research 1974
[PB-241084/2] 08 p0199 N75-28514
BUBBAU OF NATURAL GAS, WASHINGTON, D.C.
Offshore investigation: Producible shut-in
        leases, January 1974, phase 1
                                                           05 p0027 N75-11457
     Offshore investigation: Producible shut-in
leases as of January 1974, phase 2
05 p0027 N75-11458
BURBAU OF RECLAMATION, BOULDER CITY, MEV.

Overview of Reclamation's geothermal program in
        Imperial Valley, California
     06 p0098 N75-20835
Heat flow and geothermal potential of the East
Hesa KGRA, Imperial Valley, California
BUREAU OF RECLAMATION, HOLTVILLE, CALIF.
Preliminary results of geothermal desalting
operations at the East Hesa test site Imperial
        Valley, California
                                                           06 p0101 #75-20850
```

	Liquid plugging in in situ coal gasification processes
C	[UCRL-51686] 07 p0127 N75-21480
CALIPORNIA INST. OF TECH., PASADRHA.	Three-dimensional subsurface delineation via a
Caltech seminar series on energy consumption in private transportation	novel method for determining the subsurface electrical profile
[PB-235348/0] 05 p0040 N75-15179	[UCRL-51685] 07 p0127 N75-21781
Caltech seminar series on energy consumption in	Methyl alcohol production by in situ coal
private transportation: Administrative summary	gasification
[PB-235349/8] 05 p0041 #75-15184 Workshop Proceedings on Solar Cooling for	[UCID-51600] 07 p0128 N75-21797 Direct conversion of plasma energy to
buildings, held in conjunction with the	electricity for mirror fusion reactors
Semiannual Meeting of the American Society of	[UCRL-76051] 07 p0129 N75-21800
Heating, Refrigerating and Air Conditioning Engineers (ASHRAE)	Advanced concepts in fusion-fission hybrid reactors
[PB-239419/5] 07 p0144 N75-24145	[UCRL-75835] 07 p0131 N75-22113
CALIFORNIA POLYTECHNIC STATE UNIV., SAN LUIS OBISPO.	CALIFORNIA UNIV., LIVERMORE. LAWRENCE RADIATION LAB.
Research on the application of solar energy to	Use of methanol in transportation
the food drying industry [PB-238073/1] 06 p0105 N75-20888	[UCID-16528] 06 p0077 N75-16996 CALIFORNIA UNIV., RIVERSIDE.
CALIFORNIA STATE DIV. OF MASS TRANSPORTATION,	Geophysical, geochemical, and geological
SACRAMENTO.	investigations of the Dunes geothermal system,
Energy use of public transit systems [PB-241351/6] 08 p0209 N75-31962	Imperial Valley, California [IGPP-UCR-74-31] 06 p0098 N75-20836
CALIFORNIA STATE OFFICE OF SCIENCE AND TECHNOLOGY,	CARNEGIE-MELLON UNIV., PITTSBURGH, PA.
SACRAHENTO.	Solar sea power
California energy workshop: Developing a plan of action to meet the energy crisis in	[PB-235469/4] 05 p0038 N75-14284 Solar sea power
California	[PB-236997/3] 06 p0082 N75-17821
[PB-237045/0] 06 p0082 N75-17822	CENTER FOR NAVAL ANALYSES, ARLINGTON, VA.
CALIFORNIA UNIV., BERKELRY. LAWRENCE BERKELRY LAB. Cryogenic properties of Fe-Nn and Fe-Nn-Cr alloys	The economic impact of an interruption in United
[LBL-2764] 06 p0066 B75-15781	States petroleum imports: 1975 - 2000 [AD-A010914] 08 p0214 N75-33931
Comparison of computer programs used for	CHAMBER OF COMMERCE, HOUSTON, TEX.
modeling solar heating and air conditioning	Proceedings of the first 1974 Technology
systems for buildings [LBL-3066] 06 p0079 N75-17279	Transfer Conference [NASA-CR-142119] 06 p0078 N75-17188
The Lawrence Berkeley Laboratory geothermal	CHEVRON INTERNATIONAL OIL CO., INC., SAN FRANCISCO,
program in northern Nevada	CALIP.
O6 p0100 H75-20845 CALIFORNIA UNIV., LIVERMORE. LAWRENCE LIVERMORE LAB.	Cooperative efforts by industry and government to develop geothermal resources
US energy flow charts for 1950, 1960, 1970,	06 p0102 N75-20861
1980, 1985, and 1990 [UCRL-51487] 05 p0024 N75~10593	CHICAGO UNIV., ILL.
[UCRL-51487] 05 p0024 N75-10593 Rationale for setting priorities for new energy	Environmental regulations and energy for home heating
technology research and development	[PB-240699/9] 08 p0203 N75-29587
[UCRL-51511] 05 p0024 N75-10594 Review of direct energy conversion of ion beams:	CITY OF BURBAHK, CALIF. A city invests in its future
Experimental results and reactor applications	06 p0102 N75-20862
[UCRL-75600] 05 p0028 N75-11466	COLORADO SCHOOL OF MINES, GOLDEN.
Shallow solar pond energy conversion system: An analysis of a conceptual 10-NWe plant	The Colorado School of Mines Nevada geothermal study
[UCRL-51533-REV-1] 05 p0028 N75-11467	06 p0099 N75-20837
Outlook for fusion energy sources: Remaining	COLORADO SPRINGS DEPT. OF PUBLIC UTILITIES, COLO.
technological hurdles [UCRL-75418] 05 p0029 N75-11745	Assessment of a single family residence solar heating system in a suburban development setting
Revised cost estimate for the LLL in situ coal	[PB-240784/9] 08 p0203 N75-29552
gasification concept	Assessment of a single family residence solar
[UCRL-51578] 05 p0039 M75-15166 DART: A simulation code for a direct energy	heating system in a suburban development setting [PB-240553/8] 08 p0203 N75-29570
converter for fusion reactors	COLORADO STATE UNIV., PORT COLLINS.
[UCRL-51557] 05 p0043 N75-15462	Primary data on economic activity and water use
NEC in situ oil shale program [UCID-16520] 06 p0068 N75-16090	in prototype oil shale development areas of Colorado: An initial inquiry
New approaches to CTR: General relativistic	[PB-236039/4] 05 p0037 N75-14277
power plants	Solar thermal electric power systems
[UCRL-75443] 06 p0073 N75-16362 Materials screening program for the LLL	[PB-235475/1] 05 p0038 N75-14283 Solar thermal electric power systems
geothermal project	[PB-236368/7] 06 p0071 N75-16118
[UCRL-75353] 06 p0082 h75-17815	Design and construction of a residential solar
LLL-50HIO solar process heat project [UCID-16630-74-1] 06 p0093 N75-19827	heating and cooling system [PB-237042/7] 06 p0082 N75-17823
Practure-induced permeability: Present	COLUMBIA UNIV., NEW YORK.
situation and prospects for coal	Workshop in Gas-Phase Molecular Interactions and
[UCID-16593] 06 p0094 N75-19830	the Nation's Energy Problem [PB-236712/6] 06 p0086 N75-18718
Environmental aspects of methanol as vehicular fuel: Health and environmental effects	[PB-236712/6] 06 p0086 N75-18718 COMBUSTION ENGINEERING, INC., WINDSOR, CONN.
[UCRL-76076] 06 p0095 N75-19867	Low-BTU gasification of coal for electric power
Methodical approach to temperature and pressure	generation 06 n0088 N75-18700
measurements for in situ energy-recovery . processes	[PB-236972/6] 06 p0088 N75-18740 COMBUSTION POWER CO., INC., MENLO PARK, CALIP.
[UCID-16631] 06 p0097 N75-20693	Energy conversion from coal utilizing CPU-400
The total flow concept for geothermal energy	technology 06 n0068 N75-16093
conversion 06 p0100 N75-20846	[PB-235817/4] 06 p0068 N75~16093 Energy conversion from coal utilizing CPU-400
Acoustic array methods for instrumentation of in	technology
situ coal gasification [UCID-16591] 06 p0104 N75-20875	[PB-237028/6] 06 p0083 N75-17828
[003.] 00 Po (04 H/2 200/2]	

COMITATO BAZIONALE PER L'EMERGIA MUCLEARE, ROME	Oversight: Bandatory petroleum allocation
(ITALY).	programs, part 1
Beneficial uses of waste heat [RT/PROT-(74)10] 06 p0068 #75-16091	[GPO-30-060] 05 p0039 B75-15158
[RT/PROT-(74)10] 06 p0068 875-16091 COMMERCE DEPT., WASHINGTON, D.C.	Oversight: Mandatory petroleum allocation programs, part 2
Connerce today, volume 5, number 10	[GPO-31-519] 05 p0039 #75-15159
[COM-74-50944/10] 07 p0152 #75-25775	Prototype oil shale leasing program
COMBERCE TECHNICAL ADVISORY BOARD, WASHINGTON, D.C. Review of Project Independence Blueprint: Panel	[GPO-28-686] 05 p0039 H75-15160 An assessment and analysis of the energy emergency
subcommittee reports on FEA-interagency task	[GPO-25-382] 06 p0066 #75-16076
forces	Market performance and competition in the
[COM-75-10500/7] 08 p0203 875-29553	petroleum industry, part 1 [GPO-28-503] 06 p0066 N75-16077
COMMITTEE OF COMPERENCE (U. S. CONGRESS). Energy Reorganization Act of 1974	[GPO-28-503] 06 p0066 B75-16077 Oversight: Handatory petroleum allocation
[S-RBPT-93-1252] 07 p0142 R75-24123	programs
Special Energy Research and Development	[GPO-31-027] 06 p0081 #75-17806
Appropriation Act, 1975 [PUB-LAW-93-322] 08 p0209 N75-31957	COMMITTEE ON INTERSTATE AND FOREIGN COMMERCE (U. S. HOUSE).
COMMITTEE ON APPROPRIATIONS (U. S. HOUSE).	Independent truckers and the energy crisis
Public works for water and power development and	[GPO-31-412] 05 p0023 H75-10581
Atomic Energy Commission Appropriation Bill,	Study of potential for motor vehicle fuel
1975. Part 6: Tennessee Valley Authority [GP0-32-403] 05 p0026 N75-10859	economy improvement. Fuel economy test procedure panel report no. 6
COMMITTEE ON BANKING AND CURRENCY (U. S. HOUSE).	[PB-241776/4] 08 p0210 H75-32470
The economics of energy and natural resource	Study of potential for motor vehicle fuel
pricing [GPO-48-071] 07 p0141 N75-24115	economy improvement. Technology panel report no. 4
COMMITTEE ON COMMERCE (U. S. SENATE).	[PB-241774/9] 08 p0210 H75-32471
Limit lead in gasoline	COMMITTEE ON LABOR AND PUBLIC WELFARE (U. S. SENATE).
[GPO-29-660] 05 p0023 N75-10259	Bffects of energy crisis on education, 1974
Development of oil and gas on the Continental Shelf	[GPO-27-765] 05 p0026 M75-10850 Effects of the energy crisis on employment
[GPO-31-891] 06 p0075 N75-16973	dislocation, 1974
Oil and gas development and coastal zone	[GPO-35-761] 08 p0208 H75-31918
management [GPO-37-347] 08 p0206 N75-31556	COMMITTEE OF PUBLIC WORKS (U. S. SEWATE). Puel availability and allocation in the United
Outer continental shelf oil and gas leasing off	States
southern California: Analysis of issues	[GPO-31-711] 06 p0067 B75-16081
[GPO-41-659] 08 p0209 H75-31958	Transportation and the new energy policies:
Onter continental shelf oil and gas development and the coastal zone	Truck sizes and weights, part 2 [GPO-29-802] 06 p0073 #75-16410
[GPO-39-356] 08 p0209 N75-31959	The need for a national materials policy, part 1
Science and Technology Applications Act of 1974	[GPO-39-885] 08 p0209 N75-31954
[GPO-41-407] 08 p0209 B75-31961 Study of potential for motor vehicle fuel	The need for a national materials policy, part 2 [GPO-40-687] 08 p0209 N75-31955
economy improvement. Fuel economy test	The need for a national materials policy, part 3
procedure panel report no. 6	[GPO-40-687] 08 p0209 N75-31956
[PB-241776/4] 08 p0210 N75-32470	COMMITTEE OF SCIENCE AND ASTRONAUTICS (U. S. HOUSE).
Study of potential for motor vehicle fuel economy improvement. Technology panel report	Research, development, and the energy crisis [GPO-27-032] 05 p0023 N75-10580
no. 4	Advanced nuclear research
[PB-241774/9] 08 p0210 N75-32471	[GPO-41-253] 05 p0026 N75-10764
COMMITTEE ON PINANCE (U. S. SENATE). World oil developments and US oil import policies	Bioconversion [GPO-37-403] 05 p0028 N75-11463
[GPO-22-893] 07 p0148 N75-25294	Solar sea thermal energy
COMMITTEE ON POREIGN BELATIONS (U. S. SENATE).	[GPO-37-476] 05 p0030 H75-12430
Energy and foreign policy [GPO-22-562] 07 p0142 B75-24125	Energy and environmental standards [GPO-37-171] 05 p0030 H75-12431
COMMITTEE ON GOVERNMENT OPERATIONS (U. S. SENATE).	Solar photovoltaic energy
Energy Reorganization Act of 1974	[GPO-39-576] 05 p0032 #75-13379
[S-REPT-93-980] 07 p0142 N75-24124 Current energy shortages oversight series: 0il	Wind energy [GPO-37-390] 05 p0033 N75-13387
brokers, part 7	Conservation and efficient use of energy
[GPO-32-607] 07 p0161 B75-27576	[H-REPT-93-1634] 05 p0036 H75-14265
To establish an Energy Research and Development Administration and a Nuclear Energy Commission	Energy from US and Canadian tar sands: Technical, environmental, economic,
[GPO-28-963] 08 p0209 N75-31960	legislative, and policy aspects
COMMITTEE ON INTERIOR AND INSULAR APPAIRS (U. S.	[GPO-43-005] 06 p0067 H75-16083
HOUSE).	Synthetic Liquid Fuel Research and Development Act of 1974
Oil shale development, part 2 [GPO-30-368]	[GPO-44-818] 06 p0103 H75-20867
Providing for a mational fuels and energy	Solar Energy Research, Development, and
conservation policy, establishing an office of	Demonstration Act of 1974
energy conservation in the Department of the Interior, and for other purposes	[GPO-39-827] 07 p0149 H75-25299 Energy policy and resource management
[H-REPT-93-1546] 08 p0208 N75-31953	[GPO-33-634] 07 p0149 H75-25300
COMMITTEE ON INTERIOR AND INSULAR APPAIRS (U. S.	Energy legislation
SEWATE). Economic impact of the oil shale industry in	[GPO-33-571] 07 p0149 N75-25301 Solar Energy Research, Development, and
western Colorado	Demonstration Act of 1974
[GPO-28-608] . 05 p0024 N75-10588	[GPO-39-827] 08 p0207 H75-31567
National Crude Oil Refinery Development Act,	COMMITTEE ON SCIENCE AND TECHNOLOGY (U. S. HOUSE). Solar Heating and Cooling Demonstration Act of
part 2 [GPO-35-578] 05 p0027 N75-10860	1974: Oversight hearings
The Bational Coal Conversion Act and the	[GPO-55-414] 08 p0212 #75-33495
National Crude Oil Refinery Development Act	COMMITTEE OH WAYS AND MEANS (U. S. SENATE). Elimination of duty on methanol imported for
[GPO-28-964] 05 p0027 N75-10861	
The prospects for gasoline availability: 1974	certain uses

```
COMPTROLLER GREERAL OF THE UNITED STATES,
                                                                                        DURE UNIV., DURHAM, N.C.
Design of energy storage reactors for dc-to-dc
WASSINGTON, D.C.
Progress and problems in developing nuclear and
                                                                                               converters
       other experimental techniques for recovering
                                                                                               [ HASA-CR-143327]
                                                                                        DIWATECH B/D CO., CAMBBIDGE, MASS.

Puel gas production from solid waste
[PB-238068/1] 06 pc
       natural gas in the Rocky Mountain area [B-164105] 06 p0075
                                                   06 p0075 N75-16975
COUNCTICUT UNIV., STORRS.

Electric power generation utilizing a heat pipe
                                                                                                                                            06 p0095 N75-19843
                                                                                        DYNATHERM CORP., COCKEYSVILLE, ND.

Show and ice removal from pavements using stored
       turbine-generator
                                                   07 p0139 N75-24096
                                                                                               earth energy [PB-240623/9]
COSTISESTAL OIL CO., HOUSTON, TEX.
                                                                                                                                            07 p0162 N75-27581
                                                                                            Project Rio Blanco data report: Production
testing (RB-E-01), November 1973 and January -
Pebruary 1974
       [NVO-148]
                                                   06 p0094 N75-19833
CORNELL UNIV., ITHACA, N.Y.
    Atlantic outer continental shelf energy
                                                                                                                               Ε
       resources: An economic analysis
       [COM-75-10330/9]
                                                  07 p0152 N75-26484
                                                                                        BASON OIL CO., OKLAHOMA CITY, OKLA.
Evaluation of the suitability of Skylab data for
COUNCIL ON ENVIRONMENTAL QUALITY, WASHINGTON, D.C.
    Energy and the environment: Electric power 05 p0030 N75-12438
                                                                                               the purpose of petroleum exploration [275-10257] 07 p01
                                                                                                                                           07 p0147 N75-25237
                                                                                        EIC, INC., MEUTON, MASS.
Sulfur-based lithium-organic electrolyte
    OCS oil and gas: An environmental assessment,
                                                                                        secondary batteries
[AD-A003309] 06 p0104 N75-20882
ELECTRIC POWER RESEARCH INST., PALO ALTO, CALIF.
                                                   06 p0083 N75-17836
    OCS oil and gas: An environmental assessment,
       Volume 1
                                                                                             Conference proceedings: Power Generation-Clean
                                                    06 p0083 N75-17837
                                                                                               Fuels Today
[PB-237661/4]
    OCS oil and gas: An environmental assessment,
       Volume 2
                                                                                                                                            06 p0087 N75-18735
                                                                                             Conference proceedings, Steam Power Plant Workshop
[PB-239514/3] 07 p0144 N75-24148
                                                   06 p0084 N75-17838
    OCS oil and gas: An environmental assessment,
                                                                                             Uranium resources to meet long term uranium
       volume 4
                                                                                             requirements
[PB-239515/0] 08 p0
Evaluation of fixed bed, low BTU coal
    06 p0084 N75-17839 OCS oil and gas: An environmental assessment,
                                                                                                                                           08 p0199 N75-28508
06 p0084 N75-17840 CUERAN ASSOCIATES, INC., NORTHAMPTON, MASS. Evaluation of power facilities; A reviewer's
                                                                                               gasification systems for retrofitting power
                                                                                                plants
                                                                                               [PB-241672/5]
                                                                                                                                           08 p0211 N75-32602
                                                                                        BLECTRICITY COUNCIL, LONDON (ENGLAND).
Air conditioning of office buildings with
       handbook
       [PB-239221/5] .
                                                   07 p0146 N75-24198
                                                                                               all-electric supply. Part 1: Technical
                                                                                               conception
                                      D
                                                                                               [OA-TRANS-938-PT-1]
                                                                                                                                           06 p0074 N75-16970
DATA RESOURCES, INC., LEXINGTON, MASS.
A study of the demand for gasoline
[PB-235254/0]
DEFENSE DOCUMENTATION CENTER, ALEXANDRIA, VA.
                                                                                        Heat pumps in large buildings
[OA-TRANS-939] O6 p0078 N75-171
ELECTROTECHNICAL LAB., TOKYO (JAPAN).
Studies on improvement of the characteristics of
                                                                                                                                           06 p0078 N75-17184
                                                   06 p0070 N75-16105
Energy conversion
[AD-A009600]

DELAWARE UNIV., HEWARK.
Direct solar energy conversion for large scale
                                                                                               MHD power generating channel
                                                   08 p0208 N75-31580
                                                                                        [REPT-749] 07 p0148 N75-25293 ENERGY AND ENVIRONMENTAL ANALYSIS, INC., ABLINGTON,
       terrestrial use
[PB-236193/9]
                                                                                            Projected regional energy availability in 1985
[AD-A008938] 08 p0205 %75-30659
                                                   06 p0071 N75-16115
                                                                                               [AD-A008938]
                                                                                        [AD-A008938]

EHBRGY RESBARCH CORP., BETHEL, CONN.

Electrolyte for hydrocarbon air fuel cells

[AD-A007220]

ENBRGY RESOURCES CONSERVATION BOARD, CALGARY
    Environmental aspects of cadmium sulfide usage
       in solar energy conversion. Part 1:
Toxicological and environmental health
       Toxicological and environments considerations, a bibliography
06 p0105 N75-20884
                                                                                        (ALBERTA) .
    Direct solar energy conversion for large scale
                                                                                            Conservation in Alberta, 1973
terrestial use
[PB-241007/4] 08 p0201 N7

DENVER RESEARCH INST., COLO.
Applications of aerospace technology in the
                                                                                                                                           07 p0158 N75-27532
                                                                                        ENVIRONMENTAL PROTECTION AGENCY, ADA, OKLA.
                                                   08 p0201 N75-28545
                                                                                            Pollutional problems and research needs for an oil shale industry
                                                                                               [PB-236608/6]
     electric power industry
06 p0079 N75-17197
DEVELOPMENT PLANNING AND RESEARCH ASSOCIATES, INC.,
                                                                                        ENVIRONMENTAL PROTECTION AGENCY, ANN ARBOR, MICH.
Technological improvements to automobile fuel
consumption. Volume 1: Executive summary
MANHATTAB, KANS.
Industrial energy study of selected food
                                                                                            O7 p0132 N75-22478

consumption. Volume 2A: Sections 1 through 23

[PB-238678/7] Technological improvements to automobile fuel consumption. Volume 2B: Sections 24 and 25 and appendixes A through I

[PB-238679/5] A study of technol
       industries
[PB-237316/5] 06 p0083 N75-17827
DORNIER-SYSTEM G.H.B.E., PRIEDRICHSHAPEN (WEST
GRRHAWY) .
    analysis of technological development problems
       posed by use of orbital systems for energy
conversion and transfer in and from space
                                                   08 p0199 N75-28517
DOW CHEMICAL CO., PREEPORT, TEX.

Recrey consumption: Paper,
stone/clay/glass/concrete, and food industries
[PB-241926/5]
08 p0211 N75-326
                                                                                               automotive fuel consumption. Volume 1:
                                                                                            Executive summary
[PB-238693/6] 07 p0132
A study of technological improvements in
                                                                                                                                           07 p0132 N75-22481
                                                   08 p0211 N75-32607
Energy consumption: The primary metals and petroleum industries
[PB-241990/1]
DERIEL UNIV., PHILADELPHIA, PA.
Utilization analysis of energy systems
                                                                                               automobile fuel consumption. Volume 2:
                                                                                               Comprehensive discussion
                                                   08 p0213 N75-33503
                                                                                            [PB-238694/4] 07 p0132 N75-22482
A study of technological improvements in
                                                                                               automobile fuel consumption. Volume 3A:
      [PB-239291/8]
                                                   07 p0144 N75-24144
                                                                                               Appendixes 1 - 111
```

[PB-238695/1]

07 p0133 N75-22483

CORPORATE SOURCE INDEX

Evaluation of pollution control in fossil fuel conversion processes. Liquefaction: Section A study of technological improvements in automobile fuel consumption. Volume 3B: Appendixes 4 - 7 2. SEC process [PB-241792/1] [PE-238696/9] 07 p0133 N75-22484
ENVIRONMENTAL PROTECTION AGENCY, CORVALLIS, OREG.
The bioenvironmental impact of air pollution 08 p0212 N75-32627 from fossil-fuel power plants [PB-237720/8] 06 p0090 N75-18782 PAIRCHILD SPACE AND ELECTRONICS CO., GERNANTONN, MD. SENSE 2: Space applications of nuclear power.

Volume 1: Commercial communications satellite
[AEC-SMS-3063-3-VOL-1] 06 p0065 %75-157 ENVIRONMENTAL PROTECTION AGENCY, RESEARCH TRIANGLE PARK, B.C.
Compilation of air pollutant emission factors, second edition, supplement no. 3
[PR-235736/6] 06 p0073 N75-16152 06 p0065 N75-15742 PEDERAL ENERGY ADMINISTRATION, WASHINGTON, D.C. Project Independence Inspection and maintenance of light-duty 05 p0029 N75-12428 gasoline powered motor vehicles: A guide for implementation Industrial energy study of the hydraulic cement industry (PB-237142/5] [PB-236587/2] 06 p0090 N75-18784 06 p0087 #75-18730 Report to congress on petrochemicals [PB-238064/0] 06 p Background information for standards of performance: Coal preparation plants.
2: Summary and test data 06 p0097 N75-20478 Retrofitting existing housing for energy conservation: An economic analysis
[COM-75-50049/6] 07 p0135 N75-22914
Five year program planning document for end use
energy conservation, research, development, [PB-237696/0] 06 p0091 N75-18797 Report to Congress on control of sulfur oxides
[PB-241021/5] 08 p0204 N75-29597
ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. The Environmental protection agency industrial and demonstration [PB-240406/9] 07 p0152 N75-25331 Solar energy projects of the Federal Government [PB-241620/4] 08 p0208 N75-31582 technology transfer program 06 p0078 N75-17193 Study of potential for motor vehicle fuel FEDERAL POWER COMMISSION, WASHINGTON, D.C.
offshore investigation: Producible shut-in
leases as of January 1974 (second phase) economy improvement. Fuel economy test procedure panel report no. 6
[PB-241776/4] 08 p0210 N75-32470 05 p0040 N75-15174 Study of potential for motor vehicle fuel economy improvement. Technology panel report [PB-234490/1] Total energy supply and demand, volume 1, chapter 6 no. 4 [PB-241774/9] 08 p0210 N75 ESSO RESEARCH AND ENGINEERING CO., LINDEN, N.J. 06 p0067 N75-16082 08 p0210 N75-32471 A realistic view of US natural gas supply [PB-238964/1] 07 p0134 875-22898 [PB-238964/1] 07 p0134 N7
Measure for reducing energy consumption for Photochemical conversion of solar energy
[PB-235474/4] 05 p0038 N75-14282
Evaluation of pollution control in fossil fuel
conversion processess. Gasification, section homeowners and renters [PB-240472/1] 08 p0201 N75-28546 1: Synthane processes.
[PB-237113/6]

ESSO RESEARCH CENTER, ABINGDON (ENGLAND).
Chemically active fluid-bed process for sulphur removal during gasification of heavy fuel oil, Natural Gas Act, 1 March 1974 08 p0204 N75-30646 06 p0095 N75-19879 PEDERAL TRADE COMMISSION, WASHINGTON, D.C. Oversight: Mandatory petroleum allocation programs
[GPO-31-027] 06 p0081 N75-1
PLOSIDA UNIV., GAINESVILLE.
Energy required to develop power in the United 06 p0081 N75~17806 phase 2 [PB-240632/0] 07 p0159 N75-27556 EUROPEAN SPACE AGENCY, PARIS (FRANCE).
Reflector-absorber systems for solar thermionic States 05 p0032 N75-13378 converters Formulation of a data base for the analysis, evaluation and selection of a low temperature [ESRO-TT-123] 06 p0104 N75-20878 Problems of the future and potentialities of solar powered air conditioning system
[PB-238683/7] 07 p0136 875-22928
PLUOR UTAH, SAH MATEO, CALIF.
Economic system analysis of coal preconversion
technology
[PB-239383/3] 07 p0151 875-25325 system engineering [ESRO-TT-110] 06 p0107 N75-21218 On the application of hydrogen as a fuel for automotive vehicles
[ESRO-TT-132]

EXION RESEARCH AND ENGINEERING CO., LINDEN, N.J.
Peasibility study of alternative fuels for PMC CORP., PRINCETON, N.J. Char oil energy development [PB-233263/3] automotive transportation. Volume 1: 05 p0025 #75-10603 Executive summary [PB-235581/6] 05 p0041 N75-15187 Char oil energy development [PB-234018/0] 05 p0040 N75-151 FOSTER ASSOCIATES, INC., WASHINGTON, D.C. Prospective regional markets for coal conversion plant products projected to 1980 and 1985. Peasibility study of alternative fuels for 05 p0040 N75-15173 automotive transportation. Volume 2: Technical section [PB-235582/4] 05 p0041 N75-15188 Peasibility study of alternative fuels and Volume 1: Market analysis [PB-236631/8] 06 p0071 N75-16113 automotive transportation. Volume 3: Prospective regional markets for coal conversion Appendices [PB-235583/2] plant products projected to 1980 and 1985.
Volume 2: Current and projected demand,
supply and price of energy in the United States
[PB-236632/6] 06 p0078 M75-17007 05 p0041 N75-15189 Reflects of changing the proportions of automotive distillate and gasoline produced by petroleum refining Prospective regional markets for coal conversion plant products projected to 1980 and 1985.
Volume 3: Current and projected demand, supply and price of energy in the United States, [PB-236900/7] 06 p0085 N75-18443 Evaluation of pollution control in fossil fuel conversion processes: Gasification. Section 1: Lurgi process [PB-237694/5] 06 p0096 N75-19880 Evaluation of pollution control in fossil fuel [PB-237694/5] schedules [PB-236633/4] 06 p0078 W FOSTER WHEELER CORP., LIVINGSTON, W.J. Solar Power Array for the Concentration of conversion processes. Liquefaction, section
1: COED process
[PB-240371/5]

Evaluation of pollution control in fossil fuel
conversion processes: Gasification. Section
1: CO2 acceptor process
[PB-241141/1] 06 p0078 N75-17008 Solar Power ALLO, The Bhergy (SPACE)
[PB-236247/3]
[UB-236247/3]
Summary of results of solar power arrays for the concentration of energy study
[UB-238003/8]
[UB-238003/8]
[UB-238003/8] [PB-241141/1] 08 p0204 N75-29596

G GCA CORP., BEDFORD, HASS.
Waste automotive lubricating oil reuse as a fuel
[PB-241357/3] 08 p0204 N75-303 08 p0204 N75-30331 GBBERAL ELECTRIC CO., CINCINNATI, OHIO.
Study of the costs and benefits of composite
materials in advanced turbofan engines [NASA-CR-134696]
Potassium topping cycles for stationary power
[NASA-CR-2518]
O7 p0135 N75-22906
Development of low emission porous plate
combustor for automotive gas turbine and
Rankine cycle engines
[PB-240776/5]
O7 p0162 N75-27619
GEBERAL ELECTRIC CO., PHILADELPHIA, PA.
Solar heating and cooling of buildings, phase O:
Feasibility and planning study. Volume 3, book
1, appendix A, task 1: Development of
requirements. Appendix B, task 2: Systems
definition [NASA-CR-134696] 06 p0073 N75-16637 [PB-235433/0] 05 p0042 N75-15191
Solar heating and cooling of buildings. Phase 0:
Peasibility and planning study. Volume 1:
[PB-235431/4] 06 p0069 N75-16101 Solar heating and cooling of buildings. Phase 0: Peasibility and planning study. Volume 2: Technical report [PB-235432/2] 06 p0069 M75-16102 Solar heating and cooling of buildings. Phase O. Feasibility and planning study. Volume 3, book 2, appendix c, task 3: Assessment of capture potential. Appendix d, task 4: Social and environmental study. Social and environmental study
[PB-235434/8] 06 p0070 N75-16108
Multi-hundred watt radioisotope thermoelectric generator program, part 1
[GESP-7107-PT-1]
Bulti-hundred watt radioisotope thermoelectric 06 p0092 N75-19354 generator program, part 2
[GSSP-7107-PT-2] 06 p0092 !
Evaluation of a fossil fuel fired ceramic regenerative heat exchanger 06 p0092 N75-19355 [PB-236346/3] Solar heating and cooling of buildings study conducted for department of the Army. Volume
1: Executive summary and implementation plans
[AD-A002576] 06 p0104 B75-20879 Solar heating and cooling of buildings study conducted for Department of the Army. 2: Technical report [AD-A002563] 06 p0104 N75-20880 [AD-A002563]
Solar heating experiment on the Grover Cleveland School, Boston, Massachusetts
[PB-239516/8]
GENERAL ELECTRIC CO., SCHENECTADY, N.Y.
Long term power system dynamics. Volume 1:
Summary and technical report
[PB-240799/7]
Long term power system dynamics. Volume 2:
Long-term power system dynamics simulation
program 07 p0155 N75-26505 07 p0161 N75-27573 program [PB-240800/3] 07 p0161 N75-27574 GENERAL RESEARCH CORP., SANTA BARBARA, CALIF.

Impact of future use of electric cars in the Los
Angeles region. Volume 1: Executive summary
and technical report [PB-238877/5] 07 p0131 N75-22199 Impact of future use of electric cars in the los Angeles region. Volume 2: Task reports on electric car characterization and baseline projections [PB-238878/3] 07 p0131 N75-22200 Impact of future use of electric cars in the Los Impact of future use of electric cars in the Los Angeles region. Volume 3: Task reports on impact and usage analysis
[PB-238879/1] 07 p0131 N75-2220
GEOLOGICAL SURVEY, DENVER, COLO.
Average oil yeild tables for oil shale sequences in cores from the Uinta Basin, Utah, that average 15, 20, 25, 30, 35, and 40 gallons per 107 p0131 N75-22201

ton

[PB-236068/3] 06
GEOLOGICAL SURVEY, BEHLO PARK, CALIF.

Leasing of federal geothermal resources

06 p0072 N75-16124

06 p0099 N75-20841

GEOLOGICAL SURVEY, RESTOR, VA. Geothermal reservoir simulation 06 p0101 N75-20852 Relationships between bidding and hydrocarbon production of the Federal Outer Continental Shelf (through 1970) [PB-238188/] 07 p0127 N75-2176 GEOLOGICAL SURVEY, SACRAMENTO, CALIP. Heasuring ground movement in geothermal areas of Imperial Valley, California 07 p0127 N75-21788 06 p0099 N75-20842 GEORGIA INST. OF TECH., ATLANTA.

Solar heating and cooling experiment for a school in Atlanta [PB-240611/4] 07 p0155 N75-26510 Benefit-cost methodology study with example application of the use of wind generators application of the use of wind generators
[NASA-CR-134864] 08 p0207 N75-3157
GILBERT ASSOCIATES, INC., BEADING, PA.
Low Btu gasification high temperature-low
temperature H2S removal comparison effect on
overall thermal efficiency in a combined cycle 08 p0207 N75-31571 power plant
[PB-235780/4]
[PB-235780/4]
[OBDIAN ASSOCIATES, INC., NEW YORK.
Where the boilers are: A survey of electric
utility boilers with potential capacity for 06 p0072 N75-16125 burning solid waste as fuel
[PB-239392/4] 07 p
GRUMMAN ARROSPACE CORP., BETHPAGE, N.Y. 07 p0143 N75-24135 Heat pipe manufacturing study [NASA-CR-139140] 05 p0023 N75-10347 [NASA-CR-139140]

Deployable heat pipe radiator
[NASA-CR-143863]

GULF GENERAL ATORIC, SAN DIRGO, CALIF.

Application study of a nuclear coal solution
gasification process for Oklahoma coal, volume 1
[PB-236156/6]

Deployable for the process for Oklahoma coal, volume 1
[PB-236156/6]

Deployable for the process for Oklahoma coal, volume 1
[PB-236156/6]

Deployable for the process for Oklahoma coal, volume 1
[PB-236156/6]

Deployable for the process for Oklahoma coal, volume 1
[PB-236156/6] Radioisotope space power generator

[GA-A-12848] 05 p0

GUYOL (NATHANIEL B.), SAN RAPAEL, CALIF.
The approaching energy crisis: A calif 05 p0038 N75-14832 A call for action 05 p0030 N75-12432 HABILTON STANDARD DIV., UNITED AIRCRAFT CORP., HABILITUM STANDARD DITY, USLIED ALBERT COMI.,
WINDSOR LOCKS, CONN.
Pyrolysis system evaluation study
[NASA-CR-141664] 06 p0086 N75-18722 HAMPTON INST., VA.
Space and energy conservation housing prototype unit development [NASA-CR-143201] 07 p0160 N75-2750
HANDENSMINISTERIET, COPENHAGEN (DENHARK).
Coordinated extension of power plants in the
1980's. A statement submitted to the Ministry 07 p0160 N75-27567 of Commerce, Shipping, and Industry by the Energy Committee of the Power Plants [NP-20023] 06 p0067 N75-06 p0067 N75-16088 HAWAII UNIV., HONOLULU. Hawaii geothermal project 06 p0099 N75-20840 An evaluation of oceanographic and socioeconomic

aspects of a nearshore ocean thermal energy conversion pilot plant in subtropical Hawaiian waters [PB-242167/5] 08 p0213 N75-3
HELIO ASSOCIATES, IHC., TUCSON, ARIZ.
Air-stable selective surfaces for solar energy 08 p0213 N75-33509 collectors [PB-236196/2] 06 p0071 N75-16116 HERBERT H. LEHMANN COLL., BRONI, N.Y.
The energy crisis and decision making in the family [PB-238783/5] [PB-238783/5] 06 p0106 N75-21028
HITTHAN ASSOCIATES, INC., COLUMBIA, HD.

Puel and energy consumption in the coal industries
[PB-237151/6] 06 p0088 N75-18744
Assessment of the Rankine cycle for potential
application to solar powered cooling of
buildings [PB-238069/9] 06 p0089 N75-18755 Environmental impacts, efficiency, and cost of energy supply and end use, volume 2 [PB-239159] 07 p0 07 p0149 N75-25306

```
HOLT (BEE) CO., PASADENA, CALIF.
Field surveillance and enforcement guide for
                                                                                                                              INDIANA UNIV., BLOOMINGTON.
Proceedings of the Workshop on Bio-Solar
           petroleum refineries
                                                                                                                                        Conversion
           TPB-236669/8]
                                                                                                                                        [ PB-236142/6]
                                                                          06 p0090 #75-18786
                                                                                                                                                                                                      06 p0069 N75-16096
                                                                                                                              INDISTRIAL RESEARCH INST., INC., HEW YORK.

Institutional and legal constraints to
cooperative energy research and development
[PB-240929/0]
08 p0200 H75-28530
INSTITUT PRANCO-ALLEMAND DE RECHERCHES, ST. LOUIS
       Investment and operating costs of binary cycle
           geothermal power plants
                                                                          06 p010.1 N75-20855
HOBEYWELL, INC., MINNEAPOLIS, MINN.

Dynamic Conversion of solar generated heat to
      electricity
[MASA-CR-134724]
Solar thermal conversion program. Central receiver POCE project, subsystem specifications studies

OR 22202403 07 06 p0087 87
                                                                                                                               (PRANCE) .
                                                                                                                                    Progress of ISL research on energy conversion in ferroelectric ceramics of the type Ph(ZrLxTix)03 [ISL-29/74] 08 p0208 H75-31910
                                                                          06 p0066 N75-16079
                                                                                                                              INSTITUTE POR DEPRESE ANALYSES, ARLIEGTON, VA.
                                                                                                                             Institute For Derrass Analysis, Archiveron, VA.

Intermediate-term energy programs to protect
against crude-petroleum import interruptions:
Peasible alternatives, program costs, and
operational methods of funding
[PB-237209/2]
06 p0083 N75-17826
INSTITUTE FOR RAPID TRANSIT, WASHINGTON, D.C.
Papers and proceedings of two energy crisis
       [PB-238062/0] 06 p0087 N75-18733
Development of flat-plate solar collectors for
the heating and cooling of buildings
[NASA-CR-134804] 07 p0154 N75-26495
       Design and test report for transportable solar
          laboratory program [PB-240609/8]
                                                                          07 p0156 N75-26512
       Research applied to solar thermal systems
                                                                                                                                        seminars
                                                                                                                                                                                                      07 p0156 N75-26513
                                                                                                                                        [ PB-239164/7]
          [PB-241089/2]
                                                                          08 p0200 N75-28543
Research applied to solar thermal power systems
[PB-241090/0] 08 p0201 N75-28544
HOUSTON UNIV., TRI.
                                                                                                                              INSTITUTE OF GAS TECHNOLOGY, CHICAGO, ILL.
Study of industrial uses of energy relative to
environmental effects
      STON UNIV., TRI.
Energy recovery from solid waste
06 p0079 N75-17200
                                                                                                                                        [ PB-237215/9]
                                                                                                                                                                                                      06 p0084 N75-17853
                                                                                                                              Hydrogen production from coal [NASA-CR-142816] 07 pt INTERAGENCY WORKING GROUP ON HEALTH AND
      Economic modeling and energy policy planning 06 p0079 N75-17210 The evaluation of surface geometry modification to improve the directional selectivity of
                                                                                                                                                                                                     07 p0141 N75-24113
                                                                                                                             BEVARONMENTAL EFFECTS OF REERGY USE, WASHINGTON, D.C.

Report of the Interagency Working Group on

health and environmental effects of energy use

[PB-237937/8] 06 p0084 H75-17858

INTERNATIONAL RESEARCH AND TECHNOLOGY CORP.,
          solar energy collectors [PB-236412/3]
                                                                         06 p0083 N75-17830
       Solar thermal power systems based on optical
           transmission
                                                                                                                              ARLINGTON, VA.
          [PB-237005/4]
                                                                         06 p0088 N75-18742
                                                                                                                                    Data base for the industrial energy study of the
      Energy recovery from solid waste.
Summary report
                                                                                                                                        industrial chemicals group
                                                                               Volume 1:
                                                                                                                             [PB-237845/3] 06 p0087 N75-18732 INTERNATIONAL RESEARCH AND TECHNOLOGY CORP.,
           [NASA-CR-2525]
                                                                         06 p0098 N75-20830
      The evaluation of surface geometry modification to improve the directional selectivity of
                                                                                                                              WASHINGTON, D.C.
Industrial energy study of the Industrial
          solar energy collectors
[PB-238509/4]
                                                                                                                             chemicals group
[PB-236322/4]
06 p0071 H75-16111
INTERSOCIETY LIMISON CONNITTEE ON THE ENVIRONMENT.
      [PB-238509/4] 07 p0130 N75-21822 Energy recovery from solid waste. Volume 2:
Energy recovery from solid waste. Volume 2:
Technical report
[NASA-CR-2526]
HUDSON INST., IBC., CROTON-ON-HUDSON, H.Y.
Energy and security: Implications for American policy
                                                                                                                                   Proceedings of the New York State Assembly/AISLE Conference on Energy and the Environment,
                                                                                                                             Volume 1
[PB-237936/0] 06
INTERTECHNOLOGY CORP., WARRESTON, VA.
                                                                                                                                                                                                     06 p0091 N75-18801.
          (AD-785084)
                                                                                                                                    The energy plantation
                                                                         05 p0032 N75-12857
                                                                                                                                                                                                      07 p0139 875-24103
      A study of energy systems command, control and
communication for energy crisis management
                                                                                                                             O7 p0139 B75-24103
Solar energy school heating augmentation
experiment. Design, construction and
construction and initial operation
[PB-239397/3]
OWA STATE UNIV. OF SCIENCE AND TECHNOLOGY, AMES.
Coal processing by electrofluids
[PB-236588/0]
O6 p0088 B75-18743
ISTITUTO SUPERIORE DI SANITA, ROME (ITALY).
Problems in electric power production
[ISS-T-73/16]
O7 p0128 B75-21793
          [PB-239290/0]
                                                                         07 p0136 N75-22927
ILLIHOIS UNIV., CHICAGO.
Proceedings of the 2nd Annual Illinois Energy
          Conference
          [PB-240548/8]
                                                                     07 p0161 N75-27575
ILLIBOIS UNIV., URBANA.
Biological conversion of organic refuse to methane
                                                                                                                                       [ISS-T-73/16]
                                                                                                                                                                                                      07 p0128 #75-21793
      [PB-235468/6] Up poor, a.s. Energy use in the commercial and industrial sectors of the US economy, 1963

(PB-235487/6] 06 p0070 M75-16104
                                                                                                                             JAPAN ATOMIC BHERGY RESEARCH INST., TOKYO.
                                                                                                                                    Production of hydrogen from water using nuclear
      The oxidation of ethylene in automotive engine
                                                                                                                             energy. A review
[JAERI-M-5642] 06 p0093 H75-19824
JET PROPULSION LAB., CALIP. INST. OF TECH., PASADENA.
Power processor design considerations for a
      exhaust gas; an experimental investigation
07 p0138 N75-23719
US energy and fuel demand to 1985, a composite
     US energy and fuel demand to 1985, a composite projection by user within Petroleum Administration for Defense (PAD) districts [PB-239343/7] 07 p0151 N75-25322 Energy intensity of barge and rail freight hauling [PB-240012/5] 08 p0202 N75-29269 Proceedings of the Workshop on Research Needs Related to Water for Energy [PB-241346/6] 08 p0208 N75-31581 PREMIAL COURTY DEED OF PUBLIC NORES PL CHATPO
                                                                                                                                   solar electric propulsion spacecraft
[NASA-CR-140842] 05 p0029 N75-12064
Workshop proceedings: Photovoltaic conversion
                                                                                                                                   Workshop proceedings: Photovoltaic conversion of solar energy for terrestrial applications. Volume 1: Working group and panel reports [NASA-CR-138209] 06 p0069 N75-16097 Workshop proceedings: Photovoltaic conversion of solar energy for terrestrial applications. Volume 2: Invited papers [NASA-CR-138193] 06 p0069 N75-16098 Photovoltaic conversion of solar energy for Terrestrial Applications. Volume 1: Working group and manel reports
[PB-241346/6] 08 p0208 B75-31581 IMPERIAL COUNTY DEPT. OF PUBLIC WORKS, EL CENTRO,
CALTE
      Inc.
Imperial Valley's proposal to develop a guide
for geothermal development within its county
06 p0100 N75-20844
                                                                                                                                       group and panel reports
[PB-236163/2]
                                                                                                                                                                                                     06 p0072 N75-16121
INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CENTRE,
                                                                                                                                   Photovoltaic conversion of solar energy for terrestrial applications. Volume 2: Invited
      Chemistry of organic sulfur compounds contained
```

papers [PB-236164/0]

06 p0072 \$75-16122

in petroleums and petroleum products, Volume 7
[TT-70-57759] 07 p0138 N75~23691

	•
Low to high temperature energy conversion system	Report of the Wind Power Committee
[NASA-CASE-NPO-13510-1] 06 p0074 N75-16972	[NASA-TT-F-16062] 05 p0039 N75-15154
Assessment of the technology required to develop photovoltaic power system for large scale	Wind power machines [NASA-TT-F-16195] 06 p0080 N75-17786
national energy applications	Solar energy
[NSF/RA/N-74-072] 06 p0080 N75-17785	[NASA-TT-P-16155] 06 p0081 N75-17787
Proceedings of the Conference on Research for the Development of Geothernal Energy Resources	Wind motors: Theory, construction, assembly and use in drawing water and generating electricity
[NASA-CR-142556] 06 p0098 N75-20831	[NASA-TT-P-16201] 06 p0093 N75-19821
Helical rotary screw expander power system	The USA: The scientific and technical
06 p0101 N75~20856	revolution and trends in foreign policy
Solar powered pump [NASA-CASE-NPO-13567-1] 07 p0133 N75-22746	[MASA-TT-F-16102] 06 p0096 M75-20160 Wind power installations. Present condition and
Stirling cycle engine and refrigeration systems	possible lines of development
[NASA-CASE-NPO-13613-1] 07 p0133 N75-22747	[NASA-TT-F-16204] 07 p0128 N75-21796
The detection of geothermal areas from Skylab thermal data	A direct voltage converter without transformer [NASA-TT-F-16174] 07 p0133 N75-22584
. [NASA-CR-143133] 07 p0158 H75-27540	Wind engines and wind installations
Solar pond	[NASA-TT-F-16170] 07 p0135 N75-22904
[NASA-CASE-NPO-13581-1] 07 p0160 N75-27560 Low cost solar energy collection system	Carbon isotopes in oil-gas geology
[NASA-CASE-NPO-13579-1] 08 p0199 N75-28519	[HASA-TT-F-682] 07 p0160 H75-27563 KELL, ALTERMAN, RUBSTEIN, AND THOMAS, PORTLAND, OREG.
Electric power generation system directory from	Power shortage contingency program for the
laser power	Pacific Northwest. Legislative, regulatory
[NASA-CASE-NPO-13308-1] 08 p0204 N75-30524 JOINT COMMITTE ON ATOMIC ENERGY (U. S. CONGRESS).	and institutional aspects [PB-241323/5] 08 p0211 N75-32601
Development, growth, and state of the nuclear	KELLOGG (H. W.) CO., HOUSTON, TRI.
industry	A SASOL type process for gasoline, methanol,
[GPO-33-873] 05 p0038 N75-15150 Solar energy research and development	SNG, and low-Btu gas from coal [PB-237670/5] 06 p0095 N75-19838
[GPO-40-684] 07 p0139 N75-24104	[PB-237670/5] 06 p0095 N75-19838 Changes in the global energy balance
JOINT ECONOMIC COMMITTEE (U. S. CONGRESS).	[PB-238075/6] 06 p0106 N75-20936
Energy imports and the US balance of payments	Identification and characterization of the use
[GPO-28-965] 07 p0141 N75-24114 Energy statistics	of mixed conventional and waste fuels [PB-241821/8] 08 p0211 N75-32606
[GPO-37-143] 08 p0210 N75-32587	KENTRON HAWAII LTD., HOUSTON, TEX.
JOINT PUBLICATIONS RESEARCH SERVICE, ARLINGTON, VA.	Procedure for preparation for shipment of
How spacecraft are fueled [JPRS-63514] 05 p0027 N75-10983	natural gas storage vessel [NASA-CR-141455] 05 p0036 N75-14135
Further development of scientific research in	RENTUCKY UNIV., LEXINGTON.
the field of geology and of the survey and	Synthetic oil from coal
exploration of petroleum and gas [JPRS-63414] 05 p0027 N75-11410	[PB-234460/4] 05 p0040 H75-15176 KERNFORSCHUNGSANLAGE, JUELICH (WEST GERMAN).
[01ks 03414] 05 poot: 215 (1410	
Prospects for utilization of underwater houses	Technological and commercial possibilities which
Prospects for utilization of underwater houses and chambers in development of marine oil	Technological and commercial possibilities which result by using a high temperature reactor for
and chambers in development of marine oil deposits	result by using a high temperature reactor for the future supply of mineral oil in the FRG
and chambers in development of marine oil deposits 05 p0029 N75-11606	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470
and chambers in development of marine oil deposits	result by using a high temperature reactor for the future supply of mineral oil in the FRG
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 N75-17790	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 N75-17790 Prospects for magnetohydrodynamic electric power	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNFORSCHUNGSZENTRUM, KARLSRUHE (WEST GERMANY).
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 N75-17790	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 N75-17790 Prospects for magnetohydrodynamic electric power plants in power engineering 06 p0081 N75-17791 Some developments of industrial	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-BG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNFORSCHUNGSZENTRUM, KARLSRUHE (WEST GERMANY). Bnergy and the environment in Baden-Wuerttemberg
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] Prospects for magnetohydrodynamic electric power plants in power engineering 06 p0081 N75-17791 Some developments of industrial magnetohydrodynamic electric power plants	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-BG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNFORSCHUNGSZENTRUM, KARLSRUHE (WEST GERMANY). Bnergy and the environment in Baden-Wuerttemberg
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 N75-17790 Prospects for magnetohydrodynamic electric power plants in power engineering 06 p0081 N75-17791 Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17792 Experience in the first step of the mastery of	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNFORSCHUNGSZENTRUM, KARLSRUHE (WEST GERMANY). Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] Prospects for magnetohydrodynamic electric power plants in power engineering 06 p0081 N75-17791 Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17792 Experience in the first step of the mastery of the U-25 device	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNFORSCHUNGSZENTRUM, KARLSRUHE (WEST GERMANY). Energy and the environment in Baden-Nuerttemberg [KFK-1966-UF] 05 p0030 N75-12439
and chambers in development of marine oil deposits 05 p0029 N75-11606 First Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 N75-17790 Prospects for magnetohydrodynamic electric power plants in power engineering 06 p0081 N75-17791 Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17792 Experience in the first step of the mastery of the U-25 device 06 p0081 N75-17793	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNFORSCHUNGSZENTRUH, KARLSRUHE (WEST GERMANY). Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439
and chambers in development of marine oil deposits 05 p0029 N75-11606 First Joint Soviet-American Colloquium on the Problems of MRD Energy Conversion [JPRS-63794] Prospects for magnetohydrodynamic electric power plants in power engineering Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17791 Experience in the first step of the mastery of the U-25 device 06 p0081 N75-17793 Electronic model of the U-25 device 06 p0081 N75-17794	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNFORSCHUNGSZENTRUM, KARLSRUHE (WEST GERMANY). Energy and the environment in Baden-Nuerttemberg [KFK-1966-UF] 05 p0030 N75-12439
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 N75-17790 Prospects for magnetohydrodynamic electric power plants in power engineering 06 p0081 N75-17791 Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17792 Experience in the first step of the mastery of the U-25 device 06 p0081 N75-17793 Electronic model of the U-25 device 06 p0081 N75-17794 Scientific research seeks new sources of energy	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNFORSCHUNGSZENTRUH, KARLSRUHE (WEST GERMANY). Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 LIBRARY OF CONGRESS, WASHINGTON, D.C. The prospects for gasoline availability: 1974 [GFO-34-969] 05 p0039 N75-15155 Energy from US and Canadian tar sands: Technical, environmental, economic, legislatire, and policy aspects
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 N75-17790 Prospects for magnetohydrodynamic electric power plants in power engineering 06 p0081 N75-17791 Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17792 Experience in the first step of the mastery of the U-25 device 06 p0081 N75-17793 Electronic model of the U-25 device 06 p0081 N75-17794 Scientific research seeks new sources of energy 06 p0107 N75-21216	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNFORSCHUNGSZENTRUM, KARLSRUHE (WEST GERMANY). Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 LIBRARY OF CONGRESS, WASHINGTON, D.C. The prospects for gasoline availability: 1974 [GPO-34-969] Energy from US and Canadian tar sands: Technical, environmental, economic, legislative, and policy aspects [GPO-43-005] 06 p0067 N75-16083
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 N75-17790 Prospects for magnetohydrodynamic electric power plants in power engineering 06 p0081 N75-17791 Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17792 Experience in the first step of the mastery of the U-25 device 06 p0081 N75-17793 Electronic model of the U-25 device 06 p0081 N75-17794 Scientific research seeks new sources of energy	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNFORSCHUNGSZENTRUH, KARLSRUHE (WEST GERMANY). Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 LIBRARY OF CONGRESS, WASHINGTON, D.C. The prospects for gasoline availability: 1974 [GFO-34-969] 05 p0039 N75-15155 Energy from US and Canadian tar sands: Technical, environmental, economic, legislatire, and policy aspects
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 N75-17790 Prospects for magnetohydrodynamic electric power plants in power engineering 06 p0081 N75-17791 Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17792 Experience in the first step of the mastery of the U-25 device 06 p0081 N75-17793 Electronic model of the U-25 device 06 p0081 N75-17794 Scientific research seeks new sources of energy 06 p0107 N75-21216 Insufficient utilization of scientific advances 07 p0137 N75-23365 Propulsion units for high speed ships	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNFORSCHUNGSZENTRUM, KARLSRUHE (WEST GERMANY). Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 LIBRARY OF CONGRESS, WASHINGTON, D.C. The prospects for gasoline availability: 1974 [GPO-34-969] 05 p0039 N75-15155 Energy from US and Canadian tar sands: Technical, environmental, economic, legislative, and policy aspects [GPO-43-005] 06 p0067 N75-16083 Development of oil and gas on the Continental Shelf [GPO-31-891] 06 p0075 N75-16973
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 N75-17790 Prospects for magnetohydrodynamic electric power plants in power engineering 06 p0081 N75-17791 Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17792 Experience in the first step of the mastery of the U-25 device 06 p0081 N75-17793 Electronic model of the U-25 device 06 p0081 N75-17794 Scientific research seeks new sources of energy 06 p0107 N75-21216 Insufficient utilization of scientific advances 07 p0137 N75-23365 Propulsion units for high speed ships [JPRS-64897] 07 p0148 N75-25295	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNFORSCHUNGSZENTRUM, KARLSRUHE (WEST GERMANY). Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 LIBRARY OF CONGRESS, WASHINGTON, D.C. The prospects for gasoline availability: 1974 [GPO-34-969] 05 p0039 N75-15155 Energy from US and Canadian tar sands: Technical, environmental, economic, legislative, and policy aspects [GPO-43-005] 06 p0067 N75-16083 Development of oil and gas on the Continental Shelf [GPO-31-891] 06 p0075 N75-16973 Energy policy and resource management
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 N75-17790 Prospects for magnetohydrodynamic electric power plants in power engineering 06 p0081 N75-17791 Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17792 Experience in the first step of the mastery of the U-25 device 06 p0081 N75-17793 Electronic model of the U-25 device 06 p0081 N75-17794 Scientific research seeks new sources of energy 06 p0107 N75-21216 Insufficient utilization of scientific advances 07 p0137 N75-23365 Propulsion units for high speed ships	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNFORSCHUNGSZENTRUM, KARLSRUHE (WEST GERMANY). Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 LIBRARY OF CONGRESS, WASHINGTON, D.C. The prospects for gasoline availability: 1974 [GPO-34-969] 05 p0039 N75-15155 Energy from US and Canadian tar sands: Technical, environmental, economic, legislative, and policy aspects [GPO-43-005] 06 p0067 N75-16083 Development of oil and gas on the Continental Shelf [GPO-31-891] 06 p0075 N75-16973 Energy policy and resource management [GPO-33-634] 07 p0149 N75-25300
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 N75-17790 Prospects for magnetohydrodynamic electric power plants in power engineering 06 p0081 N75-17791 Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17792 Experience in the first step of the mastery of the U-25 device 06 p0081 N75-17793 Electronic model of the U-25 device 06 p0081 N75-17794 Scientific research seeks new sources of energy 06 p0107 N75-21216 Insufficient utilization of scientific advances 07 p0137 N75-23365 Propulsion units for high speed ships [JPRS-64897] 07 p0148 N75-25295 Scientific research in power engineering [JPRS-65422] 08 p0205 N75-30648	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNFORSCHUNGSZENTRUM, KARLSRUHE (WEST GERMANY). Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 LIBRARY OF CONGRESS, WASHINGTON, D.C. The prospects for gasoline availability: 1974 [GF0-34-969] 05 p0039 N75-15155 Energy from US and Canadian tar sands: Technical, environmental, economic, legislative, and policy aspects [GF0-43-005] 06 p0067 N75-16083 Development of oil and gas on the Continental Shelf [GF0-31-891] 06 p0075 N75-16973 Energy policy and resource management [GF0-31-634] 07 p0149 N75-25300 LITTLE (ARTHUR D.), INC., CAMBRIDGE, MASS. Impact of motor gasoline lead additive
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 N75-17790 Prospects for magnetohydrodynamic electric power plants in power engineering 06 p0081 N75-17791 Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17792 Experience in the first step of the mastery of the U-25 device 06 p0081 N75-17793 Electronic model of the U-25 device 06 p0081 N75-17794 Scientific research seeks new sources of energy 06 p0107 N75-21216 Insufficient utilization of scientific advances 07 p0137 N75-23365 Propulsion units for high speed ships [JPRS-64897] Scientific research in power engineering	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNFORSCHUNGSZENTRUH, KARLSRUHE (WEST GERMANI). Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 LIBRARY OF CONGRESS, WASHINGTON, D.C. The prospects for gasoline availability: 1974 [GF0-34-969] 05 p0039 N75-15155 Energy from US and Canadian tar sands: Technical, environmental, economic, legislative, and policy aspects [GF0-43-005] 06 p0067 N75-16083 Development of oil and gas on the Continental Shelf [GF0-31-891] 06 p0075 N75-16973 Energy policy and resource management [GF0-33-634] 07 p0149 N75-25300 LITTLE (ARTHUR D.), INC., CAMBRIDGE, MASS. Impact of motor gasoline lead additive regulations on petroleum refineries and energy
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 N75-17790 Prospects for magnetohydrodynamic electric power plants in power engineering 06 p0081 N75-17791 Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17792 Experience in the first step of the mastery of the U-25 device 06 p0081 N75-17793 Electronic model of the U-25 device 06 p0081 N75-17794 Scientific research seeks new sources of energy 06 p0107 N75-21216 Insufficient utilization of scientific advances 07 p0137 N75-23365 Propulsion units for high speed ships [JPRS-64897] 07 p0148 N75-25295 Scientific research in power engineering [JPRS-65422] 08 p0205 N75-30648	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNFORSCHUNGSZENTRUM, KARLSRUHE (WEST GERMANY). Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 LIBRARY OF CONGRESS, WASHINGTON, D.C. The prospects for gasoline availability: 1974 [GPO-34-969] 05 p0039 N75-15155 Energy from US and Canadian tar sands: Technical, environmental, economic, legislative, and policy aspects [GPO-43-005] 06 p0067 N75-16083 Development of oil and gas on the Continental Shelf [GPO-31-891] 06 p0075 N75-16973 Energy policy and resource management [GPO-33-634] 07 p0149 N75-25300 LITTLE (ARTHUR D.), INC., CAMBRIDGE, MASS. Impact of motor gasoline lead additive regulations on petroleum refineries and energy resources, 1974-1980, phase 1
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 N75-17790 Prospects for magnetohydrodynamic electric power plants in power engineering 06 p0081 N75-17791 Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17792 Experience in the first step of the mastery of the U-25 device 06 p0081 N75-17793 Electronic model of the U-25 device 06 p0081 N75-17794 Scientific research seeks new sources of energy 06 p0107 N75-21216 Insufficient utilization of scientific advances 07 p0137 N75-23365 Propulsion units for high speed ships [JPRS-64897] Scientific research in power engineering [JPRS-65422] KANHER (LEO) ASSOCIATES, REDHOOD CITY, CALIF. The economics of using wind power for	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNFORSCHUNGSZENTRUH, KARLSRUHE (WEST GERMANI). Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 LIBRARY OF CONGRESS, WASHINGTON, D.C. The prospects for gasoline availability: 1974 [GF0-34-969] 05 p0039 N75-15155 Energy from US and Canadian tar sands: Technical, environmental, economic, legislatire, and policy aspects [GF0-43-005] 06 p0067 N75-16083 Development of oil and gas on the Continental Shelf [GF0-31-891] 06 p0075 N75-16973 Energy policy and resource management [GF0-33-634] 07 p0149 N75-25300 LITTLE (ARTHUR D.), INC., CAMBRIDGE, MASS. Impact of motor gasoline lead additive regulations on petroleum refineries and energy resources, 1974-1980, phase 1 [PB-234185/7] Dependence of the United States on essential
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 N75-17790 Prospects for magnetohydrodynamic electric power plants in power engineering 06 p0081 N75-17791 Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17792 Experience in the first step of the mastery of the U-25 device 06 p0081 N75-17793 Electronic model of the U-25 device 06 p0081 N75-17794 Scientific research seeks new sources of energy 06 p0107 N75-21216 Insufficient utilization of scientific advances 07 p0137 N75-23365 Propulsion units for high speed ships [JPRS-64897] Scientific research in power engineering [JPRS-65422] KANHER (LEO) ASSOCIATES, REDWOOD CITY, CALIF. The economics of using wind power for electricity supply in the Netherlands and for	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNFORSCHUNGSZENTRUM, KARLSRUHE (WEST GERMANY). Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 LIBRARY OF CONGRESS, WASHINGTON, D.C. The prospects for gasoline availability: 1974 [GPO-34-969] 05 p0039 N75-15155 Energy from US and Canadian tar sands: Technical, environmental, economic, legislative, and policy aspects [GPO-43-005] 06 p0067 N75-16083 Development of oil and gas on the Continental Shelf [GPO-31-891] 06 p0075 N75-16973 Energy policy and resource management [GPO-33-634] 07 p0149 N75-25300 LITTLE (ARTHUR D.), INC., CAMBRIDGE, MASS. Impact of motor gasoline lead additive regulations on petroleum refineries and energy resources, 1974-1980, phase 1 [PB-234185/7] 05 p0025 N75-10601 Dependence of the United States on essential imported materials, year 2000; volume 1
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 N75-17790 Prospects for magnetohydrodynamic electric power plants in power engineering 06 p0081 N75-17791 Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17792 Experience in the first step of the mastery of the U-25 device 06 p0081 N75-17793 Electronic model of the U-25 device 06 p0081 N75-17794 Scientific research seeks new sources of energy 06 p0107 N75-21216 Insufficient utilization of scientific advances 07 p0137 N75-23365 Propulsion units for high speed ships [JPRS-64897] Scientific research in power engineering [JPRS-65422] KANHER (LEO) ASSOCIATES, REDHOOD CITY, CALIF. The economics of using wind power for	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNFORSCHUNGSZENTRUH, KARLSRUHE (WEST GERMANI). Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 LIBRARY OF CONGRESS, WASHINGTON, D.C. The prospects for gasoline availability: 1974 [GF0-34-969] 05 p0039 N75-15155 Energy from US and Canadian tar sands: Technical, environmental, economic, legislatire, and policy aspects [GF0-43-005] 06 p0067 N75-16083 Development of oil and gas on the Continental Shelf [GF0-31-891] 06 p0075 N75-16973 Energy policy and resource management [GF0-33-634] 07 p0149 N75-25300 LITTLE (ARTHUR D.), INC., CAMBRIDGE, MASS. Impact of motor gasoline lead additive regulations on petroleum refineries and energy resources, 1974-1980, phase 1 [PB-234185/7] Dependence of the United States on essential
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 N75-17790 Prospects for magnetohydrodynamic electric power plants in power engineering 06 p0081 N75-17791 Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17792 Experience in the first step of the mastery of the U-25 device 06 p0081 N75-17793 Electronic model of the U-25 device 06 p0081 N75-17794 Scientific research seeks new sources of energy 06 p0107 N75-21216 Insufficient utilization of scientific advances 07 p0137 N75-23365 Propulsion units for high speed ships [JPRS-64897] Scientific research in power engineering [JPRS-65422] KANHER (LEO) ASSOCIATES, REDWOOD CITY, CALIF. The economics of using wind power for electricity supply in the Netherlands and for water supply on Curacao [NASA-TT-P-15982] Utilization of solar energy	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNPORSCHUNGSZENTRUM, KARLSRUHE (WEST GERMANY). Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 LIBRARY OF CONGRESS, WASHINGTON, D.C. The prospects for gasoline availability: 1974 [GPO-34-969] 05 p0039 N75-15155 Energy from US and Canadian tar sands: Technical, environmental, economic, legislative, and policy aspects [GPO-43-005] 06 p0067 N75-16083 Development of oil and gas on the Continental Shelf [GPO-31-891] 06 p0075 N75-16973 Energy policy and resource management [GPO-33-634] 07 p0149 N75-25300 LITTLE (ARTHUR D.), INC., CAMBRIDGE, MASS. Impact of motor gasoline lead additive regulations on petroleum refineries and energy resources, 1974-1980, phase 1 [PB-234185/7] 05 p0025 N75-10601 Dependence of the United States on essential imported materials, year 2000; volume 1 [AD-N000842] 06 p0096 N75-20157 Dependence of the United States on essential imported materials, year 2000. Volume 2:
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 N75-17790 Prospects for magnetohydrodynamic electric power plants in power engineering 06 p0081 N75-17791 Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17792 Experience in the first step of the mastery of the U-25 device 06 p0081 N75-17793 Electronic model of the U-25 device 06 p0081 N75-17794 Scientific research seeks new sources of energy 06 p0107 N75-21216 Insufficient utilization of scientific advances 07 p0137 N75-23365 Propulsion units for high speed ships [JPRS-64897] Scientific research in power engineering [JPRS-65422] K KANNER (LEO) ASSOCIATES, REDWOOD CITY, CALIP. The economics of using wind power for electricity supply in the Netherlands and for water supply on Curacao [NASA-TT-P-15982] Utilization of solar energy [NASA-TT-P-16090] 05 p0033 N75-13382	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNFORSCHUNGSZENTRUM, KARLSRUHE (WEST GERMANY). Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 LIBRARY OF CONGRESS, WASHINGTON, D.C. The prospects for gasoline availability: 1974 [GPO-34-969] 05 p0039 N75-15155 Energy from US and Canadian tar sands: Technical, environmental, economic, legislative, and policy aspects [GPO-43-005] 06 p0067 N75-16083 Development of oil and gas on the Continental Shelf [GPO-31-891] 06 p0075 N75-16973 Energy policy and resource management [GPO-31-891] 07 p0149 N75-25300 LITTLE (ARTHUR D.), INC., CAMBRIDGE, MASS. Impact of motor gasoline lead additive regulations on petroleum refineries and energy resources, 1974-1980, phase 1 [PB-234185/7] 05 p0025 N75-10601 Dependence of the United States on essential imported materials, year 2000; volume 1 [AD-N00842] 06 p0096 N75-20157 Dependence of the United States on essential imported materials, year 2000. Volume 2: Appendices
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 N75-17790 Prospects for magnetohydrodynamic electric power plants in power engineering 06 p0081 N75-17791 Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17792 Experience in the first step of the mastery of the U-25 device 06 p0081 N75-17793 Electronic model of the U-25 device 06 p0081 N75-17793 Scientific research seeks new sources of energy 06 p0107 N75-21216 Insufficient utilization of scientific advances 07 p0137 N75-23365 Propulsion units for high speed ships [JPRS-64897] Scientific research in power engineering [JPRS-65422] KAMHER (LEO) ASSOCIATES, REDWOOD CITY, CALIF. The economics of using wind power for electricity supply in the Netherlands and for water supply on Curacao [NASA-TT-F-15982] Utilization of solar energy [NASA-TT-F-16090] Solar power generating systems as sources of	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNPORSCHUNGSZENTRUM, KARLSRUHE (WEST GERMANY). Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 LIBRARY OF CONGRESS, WASHINGTON, D.C. The prospects for gasoline availability: 1974 [GPO-34-969] 05 p0039 N75-15155 Energy from US and Canadian tar sands: Technical, environmental, economic, legislative, and policy aspects [GPO-43-005] 06 p0067 N75-16083 Development of oil and gas on the Continental Shelf [GPO-31-891] 06 p0075 N75-16973 Energy policy and resource management [GPO-33-634] 07 p0149 N75-25300 LITTLE (ARTHUR D.), INC., CAMBRIDGE, MASS. Impact of motor gasoline lead additive regulations on petroleum refineries and energy resources, 1974-1980, phase 1 [PB-234185/7] 05 p0025 N75-10601 Dependence of the United States on essential imported materials, year 2000; volume 1 [AD-N000842] 06 p0096 N75-20157 Dependence of the United States on essential imported materials, year 2000. Volume 2:
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 N75-17790 Prospects for magnetohydrodynamic electric power plants in power engineering 06 p0081 N75-17791 Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17792 Experience in the first step of the mastery of the U-25 device 06 p0081 N75-17793 Electronic model of the U-25 device 06 p0081 N75-17794 Scientific research seeks new sources of energy 06 p0107 N75-21216 Insufficient utilization of scientific advances 07 p0137 N75-23365 Propulsion units for high speed ships [JPRS-64897] Scientific research in power engineering [JPRS-65422] K KANHER (LEO) ASSOCIATES, REDWOOD CITY, CALIF. The economics of using wind power for electricity supply in the Netherlands and for water supply on Curacao [NASA-TT-P-15982] Utilization of solar energy [NASA-TT-P-16090] Solar power generating systems as sources of non-polluting energy (power generation in space and power generation on the ground)	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNFORSCHUNGSZENTRUM, KARLSRUHE (WEST GERMANY). Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 LIBRARY OF COMGRESS, WASHINGTON, D.C. The prospects for gasoline availability: 1974 [GPO-34-969] 05 p0039 N75-15155 Energy from US and Canadian tar sands: Technical, environmental, economic, legislative, and policy aspects [GPO-43-005] 06 p0067 N75-16083 Development of oil and gas on the Continental Shelf [GPO-31-891] 06 p0075 N75-16973 Energy policy and resource management (GPO-33-634) 07 p0149 N75-25300 LITTLE (ARTHUR D.), INC., CAMBRIDGE, MASS. Impact of motor gasoline lead additive regulations on petroleum refineries and energy resources, 1974-1980, phase 1 [PB-234185/7] 05 p0025 N75-10601 Dependence of the United States on essential imported materials, year 2000; volume 1 [AD-A000842] 06 p0096 N75-20157 Dependence of the United States on essential imported materials, year 2000. Volume 2: Appendices [AD-A000843] 06 p0096 N75-20158 A study of technological improvements in automotive fuel consumption. Volume 1:
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 N75-17790 Prospects for magnetohydrodynamic electric power plants in power engineering 06 p0081 N75-17791 Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17792 Experience in the first step of the mastery of the U-25 device 06 p0081 N75-17793 Electronic model of the U-25 device 06 p0081 N75-17794 Scientific research seeks new sources of energy 06 p0107 N75-21216 Insufficient utilization of scientific advances 07 p0137 N75-22365 Propulsion units for high speed ships [JPRS-64897] Scientific research in power engineering [JPRS-65422] KAMMBER (LEO) ASSOCIATES, REDWOOD CITY, CALIP. The economics of using wind power for electricity supply in the Netherlands and for water supply on Curacao [NASA-TT-P-15982] Utilization of sclar energy [NASA-TT-P-16090] Solar power generating systems as sources of non-polluting energy (power generation in space and power generation on the ground) [NASA-TT-P-16091] 05 p0033 N75-13383	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNFORSCHUNGSZENTRUM, KARLSRUHE (WEST GERMANI). Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 LIBRARY OF CONGRESS, WASHINGTON, D.C. The prospects for gasoline availability: 1974 [GF0-34-969] 05 p0039 N75-15155 Energy from US and Canadian tar sands: Technical, environmental, economic, legislatire, and policy aspects [GF0-43-005] 06 p0067 N75-16083 Development of oil and gas on the Continental Shelf [GF0-31-891] 06 p0075 N75-16973 Energy policy and resource management (GF0-33-634) 07 p0149 N75-25300 LITTLE (ARTHUR D.), INC., CAMBRIDGE, MASS. Impact of motor gasoline lead additive regulations on petroleum refineries and energy resources, 1974-1980, phase 1 [PB-234185/7] 05 p0025 N75-10601 Dependence of the United States on essential imported materials, year 2000; volume 1 [AD-A000842] 06 p0096 N75-20157 Dependence of the United States on essential imported materials, year 2000. Volume 2: Appendices [AD-A000843] 06 p0096 N75-20158 A study of technological improvements in automotive fuel consumption. Volume 1: Executive summary
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 N75-17790 Prospects for magnetohydrodynamic electric power plants in power engineering 06 p0081 N75-17791 Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17792 Experience in the first step of the mastery of the U-25 device 06 p0081 N75-17793 Electronic model of the U-25 device 06 p0081 N75-17794 Scientific research seeks new sources of energy 06 p0107 N75-21216 Insufficient utilization of scientific advances 07 p0137 N75-23365 Propulsion units for high speed ships [JPRS-64897] Scientific research in power engineering [JPRS-65422] K KANHER (LEO) ASSOCIATES, REDWOOD CITY, CALIF. The economics of using wind power for electricity supply in the Netherlands and for water supply on Curacao [NASA-TT-P-15982] Utilization of solar energy [NASA-TT-P-16090] Solar power generating systems as sources of non-polluting energy (power generation in space and power generation on the ground)	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNFORSCHUNGSZENTRUM, KARLSRUHE (WEST GERMANY). Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 LIBRARY OF CONGRESS, WASHINGTON, D.C. The prospects for gasoline availability: 1974 [GPO-34-969] 05 p0039 N75-15155 Energy from US and Canadian tar sands: Technical, environmental, economic, legislative, and policy aspects [GPO-43-005] 06 p0067 N75-16083 Development of oil and gas on the Continental Shelf [GPO-31-891] 06 p0075 N75-16973 Energy policy and resource management [GPO-33-634] 07 p0149 N75-25300 LITTLE (ARTHUR D.), INC., CAMBRIDGE, MASS. Impact of motor gasoline lead additive regulations on petroleum refineries and energy resources, 1974-1980, phase 1 [PB-234185/7] 05 p0025 N75-10601 Dependence of the United States on essential imported materials, year 2000; volume 1 [AD-N000842] 06 p0096 N75-20157 Dependence of the United States on essential imported materials, year 2000. Volume 2: Appendices [AD-N00843] 06 p0096 N75-20158 A study of technological improvements in automotive fuel consumption. Volume 1: Executive summary [PB-238693/6] 07 p0132 N75-22481
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 N75-17790 Prospects for magnetohydrodynamic electric power plants in power engineering 06 p0081 N75-17791 Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17792 Experience in the first step of the mastery of the U-25 device 06 p0081 N75-17793 Electronic model of the U-25 device 06 p0081 N75-17794 Scientific research seeks new sources of energy 06 p0107 N75-21216 Insufficient utilization of scientific advances 07 p0137 N75-23365 Propulsion units for high speed ships [JPRS-64897] Scientific research in power engineering [JPRS-65422] KANHER (LEO) ASSOCIATES, REDWOOD CITY, CALIP. The economics of using wind power for electricity supply in the Netherlands and for water supply on Curcaco [NASA-TT-P-16990] Utilization of sclar energy [NASA-TT-P-16991] Solar power generation in space and power generation on the ground) [NASA-TT-P-16091] UNASA-TT-P-16057] US p0033 N75-13384	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNFORSCHUNGSZENTRUM, KARLSRUHE (WEST GERMANY). Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 LIBRARY OF CONGRESS, WASHINGTON, D.C. The prospects for gasoline availability: 1974 [GF0-34-969] 05 p0039 N75-15155 Energy from US and Canadian tar sands: Technical, environmental, economic, legislative, and policy aspects [GF0-43-005] 06 p0067 N75-16083 Development of oil and gas on the Continental Shelf [GF0-31-891] 06 p0075 N75-16973 Energy policy and resource management (GF0-33-634) 07 p0149 N75-25300 LITTLE (ARTHUR D.), INC., CAMBRIDGE, MASS. Impact of motor gasoline lead additive regulations on petroleum refineries and energy resources, 1974-1980, phase 1 [PB-234185/7] Dependence of the United States on essential imported materials, year 2000; volume 1 [ND-N000842] 06 p0096 N75-20157 Dependence of the United States on essential imported materials, year 2000. Volume 2: Appendices [AD-N00843] 06 p0096 N75-20157 Dependence of the United States on essential imported materials, year 2000. Volume 2: Appendices [AD-N00843] 07 p0132 N75-22481 A study of technological improvements in automotive fuel consumption. Volume 1: Executive summary [PB-238693/6] 07 p0132 N75-22481 A study of technological improvements in automobile fuel consumption. Volume 2:
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 N75-17790 Prospects for magnetohydrodynamic electric power plants in power engineering 06 p0081 N75-17791 Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17792 Experience in the first step of the mastery of the U-25 device 06 p0081 N75-17793 Electronic model of the U-25 device 06 p0081 N75-17794 Scientific research seeks new sources of energy 06 p0107 N75-21216 Insufficient utilization of scientific advances 07 p0137 N75-23365 Propulsion units for high speed ships [JPRS-64897] Scientific research in power engineering [JPRS-65422] KANNER (LEO) ASSOCIATES, REDWOOD CITY, CALIF. The economics of using wind power for electricity supply in the Netherlands and for water supply on Curacao [NASA-TT-F-15982] Utilization of solar energy [NASA-TT-F-16090] Solar power generating systems as sources of non-polluting energy (power generation in space and power generation on the ground) [NASA-TT-F-16091] Wind power projects of the Prench electrical authority [NASA-TT-F-16057] Exploiting wind power for the production of	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNFORSCHUNGSZENTRUM, KARLSRUHE (WEST GERMANY). Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 LIBRARY OF CONGRESS, WASHINGTON, D.C. The prospects for gasoline availability: 1974 [GPO-34-969] 05 p0039 N75-15155 Energy from US and Canadian tar sands: Technical, environmental, economic, legislative, and policy aspects [GPO-43-005] 06 p0067 N75-16083 Development of oil and gas on the Continental Shelf [GPO-31-891] 06 p0075 N75-16973 Energy policy and resource management [GPO-33-634] 07 p0149 N75-25300 LITTLE (ARTHUR D.), INC., CAMBRIDGE, MASS. Impact of motor gasoline lead additive regulations on petroleum refineries and energy resources, 1974-1980, phase 1 [PB-234185/7] 05 p0025 N75-10601 Dependence of the United States on essential imported materials, year 2000; volume 1 [AD-N000842] 06 p0096 N75-20157 Dependence of the United States on essential imported materials, year 2000. Volume 2: Appendices [AD-N000843] 06 p0096 N75-20158 A study of technological improvements in automotive fuel consumption. Volume 1: Executive summary [PB-238693/6] 07 p0132 N75-22481 A study of technological improvements in automobile fuel consumption. Volume 2: Comprehensive discussion
and chambers in development of marine oil deposits 05 p0029 N75-11606 Pirst Joint Soviet-American Colloquium on the Problems of MHD Energy Conversion [JPRS-63794] 06 p0081 N75-17790 Prospects for magnetohydrodynamic electric power plants in power engineering 06 p0081 N75-17791 Some developments of industrial magnetohydrodynamic electric power plants 06 p0081 N75-17792 Experience in the first step of the mastery of the U-25 device 06 p0081 N75-17793 Electronic model of the U-25 device 06 p0081 N75-17794 Scientific research seeks new sources of energy 06 p0107 N75-21216 Insufficient utilization of scientific advances 07 p0137 N75-23365 Propulsion units for high speed ships [JPRS-64897] Scientific research in power engineering [JPRS-65422] KANHER (LEO) ASSOCIATES, REDWOOD CITY, CALIP. The economics of using wind power for electricity supply in the Netherlands and for water supply on Curcaco [NASA-TT-P-16990] Utilization of sclar energy [NASA-TT-P-16991] Solar power generation in space and power generation on the ground) [NASA-TT-P-16091] UNASA-TT-P-16057] US p0033 N75-13384	result by using a high temperature reactor for the future supply of mineral oil in the FRG [JUL-1017-RG] 05 p0029 N75-11470 Nuclear district-heating and nuclear long-distance energy [JUL-1077] 06 p0093 N75-19828 KERNFORSCHUNGSZENTRUM, KARLSRUHE (WEST GERMANY). Energy and the environment in Baden-Wuerttemberg [KFK-1966-UF] 05 p0030 N75-12439 LIBRARY OF CONGRESS, WASHINGTON, D.C. The prospects for gasoline availability: 1974 [GF0-34-969] 05 p0039 N75-15155 Energy from US and Canadian tar sands: Technical, environmental, economic, legislative, and policy aspects [GF0-43-005] 06 p0067 N75-16083 Development of oil and gas on the Continental Shelf [GF0-31-891] 06 p0075 N75-16973 Energy policy and resource management (GF0-33-634) 07 p0149 N75-25300 LITTLE (ARTHUR D.), INC., CAMBRIDGE, MASS. Impact of motor gasoline lead additive regulations on petroleum refineries and energy resources, 1974-1980, phase 1 [PB-234185/7] Dependence of the United States on essential imported materials, year 2000; volume 1 [ND-N000842] 06 p0096 N75-20157 Dependence of the United States on essential imported materials, year 2000. Volume 2: Appendices [AD-N00843] 06 p0096 N75-20157 Dependence of the United States on essential imported materials, year 2000. Volume 2: Appendices [AD-N00843] 07 p0132 N75-22481 A study of technological improvements in automotive fuel consumption. Volume 1: Executive summary [PB-238693/6] 07 p0132 N75-22481 A study of technological improvements in automobile fuel consumption. Volume 2:

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A study of technological improvements in
automobile fuel consumption. Volume 3A:
Appendixes 1 - 111
          [PB-238695/1]
                                                                     07 p0133 N75-22483
      A study of technological improvements in automobile fuel consumption. Volume 3B: Appendixes 4 - 7
          [PB-238696/9]
                                                                     07 p0133 N75-22484
      Peasibility study of a satellite solar power
          station
          [ NASA-CR-2357]
                                                                     07 p0138 N75-23683
     [MASA-CR-14279]
Space satellite power system
[MASA-CR-142799]
Feasibility study of solar energy utilization in
modular integrated utility systems
                                                                     07 p0139 N75-24099
          [ NASA-CR-141929]
                                                                     08 p0199 N75-28518
            overview of alternative energy sources for LDCs
                                                                     08 p0200 N75-28529
          [PB-239465/8]
      The benefits/costs of tertiary oil recovery
[PB-240463/0] 08 p0201 N75-28552
      Technology and current practices for processing,
transferring and storing liquefied natural gas
[PB-241048/8] 08 p0202 H75-292
      [PB-241048/8] 08 p0202 N75-29271
Economic impact of shortages on the fertilizer
          industry
industry
[PB-240418/4] 08 p0204 N75
LLOYD CORP., LOS ANGELES, CALIF.
Combining total energy and energy industrial
center concepts to increase utilization
                                                                     08 p0204 N75-29953
          center concepts to Include efficiency of geothermal energy 06 p0102 N75-20860
LOCKHEED AIRCRAFT CORP., BURBANK, CALIF.
Evaluation of advanced lift concepts and
          potential fuel conservation for short-haul
          aircraft
          (NASA-CR-2502]
                                                                    06 p0073 N75-16557
LOCKHERD AIRCRAFT CORP., SUMBYVALE, CALIF.
Evaluation of advanced lift concepts and fuel
conservative short-haul aircraft, volume 1
[NASA-CR-137525] 06 p0096 N75-20291
      Evaluation of advanced lift concepts and fuel conservative short-haul aircraft, volume 2 [#ASA-CR-137526] 06 p0097 N75-20292
LOCKHEED BISSILES AND SPACE CO., HUBTSVILLE, ALA.
LOCKHEED HISSILES AND SPACE CO., HUNTSVILLE, ALA.
Solar energy concentrator system for crystal
growth and zone refining in space
[NASA-CR-120623] 06 p0086 N75-18719
LOCKHEED HISSILES AND SPACE CO., PALO ALTO, CALIF.
Full-scale testing of high-voltage photocells of
fotovolt type at elevated light flux levels
08 p0210 N75-32590
LOCKBERD HISSILES AND SPACE CO., SUNNYALE, CALIF.
     Test report SEPS solar array root section model
[FASA-CR-120606] 06 p0067 N75-16
                                                                    06 p0067 N75-16085
LOCKHEBD-CALIFORNIA CO., BURBANK.
Study of active cocling for supersonic transports
[NASA-CR-132573]
LOS ALAMOS SCIENTIFIC LAB., N.MBY.
Application of technology from the Rover program
                                                                    06 p0079 N75-17336
     and related developments
[1A-5558]

O5 p0028 H75-11468

Process environment effects on heat pipes for
     fluid-bed gasification of coal
[LA-UR-74-984] 05 p0029 N75-12252
Energy storage for the electric power industry
[LA-UR-74-918] 05 p0031 N75-12447
     Superconducting magnetic energy storage [LA-UR-74-737] 05 p003
                                                                    05 p0032 N75-12814
     [LA-UB-74-737]

Methods of energy transfer from a magnetic.
energy storage system using a transfer
capacitor and a superconducting switch
[LA-5631-HS]

05 p0032 H75-13164
     [12-5631-HS] 05 p0032 H75-
Geothermal energy: A new application of rock
          mechanics
          [LA-UR-74-821]
                                                                    06 p0068 N75-16089
     Conceptual design of a heat pipe methanator
[LA-5596] 06 p0074 N75-16774
The initiatives of the Los Alamos Scientific
          Laboratory in the transfer of a new excavation
          technology
                                                                     06 p0079 ¥75-17203
     Control system design and simulation for solar
heated structures
[LA-UR-74-1085] 06 p0082 H75-1
                                                                    06 p0082 N75-17813
     Energy and cryoengineering
[LA-UR-74-741]
Prospect for geothermal power
[LA-UR-74-1111]
                                                                     06 p0082 N75~17814
```

06 p0086 N75~18723

Economic and system aspects of a superconducting magnetic energy storage device and a dc superconducting transmission line [LA-UR-74-1145] 06 p0091 06 p0091 N75-19080 Progress of the LASL dry hot rock geothernal energy project 06 p0100 H75-20848 Rock melting technology and geothermal drilling 06 p0101 N75-20851 Magnetic Energy Transfer and Storage (METS) program schedules for a Pusion Test Reactor [LA-5748-MS] 06 p0106 M75-21097
Fundamental aspects of systems for the thermochemical production of hydrogen from water [LA-UR-74-1459] 07 p0127 W75-21391

HALLORY BATTERY CO., TARRYTOWN, N.Y.

Non-hazardous primary lithium-organic
electrolyte battery BA-5590 ()/U
[AD-A003312] 07 p0129 N75-21804

HABITH HARIETTA CORP., DEBVEB, COLO.

Solar power system and component research program
[PB-236159/0] 05 p0037 N75-14280

Solar thermal subsystem specification study. Solar thermal subsystem specification study [PB-238005/3] 06 p0083 N75-1782 Solar power system and component research program [PB-238642/3] 07 p0135 N75-2291 06 p0083 N75-17829 07 p0135 N75-22915 Solar power system and component research program

[PB-239185/2] 07 p0136 N75-22930

HARTLAND UNIV., COLLEGE PARK.

Heat Pipe Symposium/Workshop

[PB-236008/9] 05 p0035 N75-14094

Proceedings of the Solar Heating and Cooling for Buildings Workshop. Part 2: Panel sessions, [PB-235483/5] 06 p0069 N75-16095 The national solar energy program 07 p0139 N75-24102 Proceedings of the Solar Thermal Conversion Workshop [PB-239277/7] 07 p0145 N75-24157 MASSACHUSETTS IEST. OF TECH., CAMBRIDGE.
Interfuel substitution in the consumption of
energy in the United States. Part 1:
Residential and commercial sector [PB-234536/1] 05 p0040 N75-15178 MIT fusion technology program [COO-2431-1] 06 p0106 #75-21101 The role for Pederal R and D on alternative automotive power systems [PB-238771/0] 07 p0137 N75-23391 [PB-2387/7/0] 0/ p013/ B/3-23391
Energy system modeling-interfuel competition
[PB-239292/6] 07 p0143 B75-24140
Energy conservation: A case study for a large
manufacturing plant
[PB-2329202/2] 07 p0151 B75-26323 [PB-239302/3] 07 p0151 N75-25323 Cycle study of a mercury-colloidal electrofluid Cycle study of a mercury-control dynamic power generator
[AD-A004814] 07 p0159 N75-27559
The OCS (Outer Continental Shelf) petroleum pie
[COM-75-10599/9] 08 p0206 N75-31562 energy needs up to 1985 [PB-242142/8] 08 p0213 N75-33506 The future of the US nuclear energy industry
[PB-242164/2] 08 p0214 N75-33511
The economics of the natural gas shortage (1960-1980) [PB-242166/7] 08 p0214 H75-33:

MASSACHUSETTS UNIV., AMMERST.

Technical and economic feasibility of the ocean thermal differences process as a solar-driven 08 p0214 N75-33932 energy process [PB-236422/2] PRE-236422/2] 06 p0077 B75-17003

Feasibility study of a 100 megawatt open cycle ocean thermal difference power plant [PB-238571/4] 07 p0130 B75-21821

Oceanic and atmospheric energy sources 07 p0139 #75-24101 Variations in heat exchanger design for ocean thermal difference power plants [PB-238572/2] 07 p0143 875-24134 preliminary technology assessment of ocean thermal gradient energy generation [PB-238646/4] 07 p0144 B75 07 p0144 B75-24147

CORPORATE SOURCE INDEX

Technical and economic feasibility of the ocean thermal differences process as a solar-driven energy process
[PB-239374/2]
Ocean thermal difference power plant turbine 07 p0150 N75-25317 design [PB-239371/8] 07 p0150 N75-25318 Heat exchangers for sea solar power plants
[PB-239369/2] 07 p0150 N75-25319 [PB-239309/Z] 07 p0150 N75-25319

Bot water hydraulics of the Gulf Stream sited OTGM
[PB-242151/9] 08 p0213 N75-33502

An analysis of the fluid motion into the
condenser intake of a 400 mW(e) ocean thermal
difference power plant [PB-242569/2] 08 p0213 N75~33508

#ATHERATICS AND COMPUTATION LAB., MCLEAR, VA.

The MCL-Thurow model supplement
[PB-241113/0] 08 p0204 N75~29952 MCDONNELL-DOUGLAS ASTRONAUTICS CO., BURTINGTON BEACH, CALIF. Solar thermal power systems based on optical [PB-237005/4] 06 p0088 N75-18742

#CDOWELL-WELLHAM ENGINEERING CO., CLEVELAND, ORIO.

Large diameter 300 PSI gasifier. Preliminary engineering report. Volume 1: Description [PB-238360/2] 06 p0105 N75-20889

#ERCHANT HABINE ACADEMY, KINGS POINT, N.Y.

Submarine tanker concepts and problems [COM-75-10009/9] 07 p0132 N75-22264

Application of superconduction transmission Application of superconducting electrical machinery to the propulsion systems of commercial vessels [COM-75-10137] 07 p0147 N75-25200 MICHIGAE OFFICE OF HIGHWAY SAFETY PLANNING, LANSING. Study on the effects of the energy crisis and 55 mph speed limit in Michigan [PB-241843/2] 08 p0212 N75~33499 MICHIGAN STATE UNIV., BAST LANSING.
Energy utilization by households and technology
assessment as a way to increase its effectiveness [HLH-2134] 06 p0097 N75-20829 MICHIGAN UNIV., ANN ARBOR.

Evaluation of coal conversion processes to provide clean fuels, part 1 PB-234202/0] 05 p0025 N75-10600 Evaluation of coal conversion processes to provide clean fuels, part 2 [PB-234203/8] 05 p0025 N75~10604 Study on the effects of the energy crisis and 55 mph speed limit in Michigan [PB-241843/2] 08 p0212 N75~33499 MINISTRY OF DEFENCE, PARIS (FRANCE). Energy problems in a global context 06 p0075 N75~16978 MINNESOTA MINING AND MFG. CO., ST. PAUL. Manportable thermoelectric generator [AD-A002042] 06 p0095 N NINESOTA UNIV., HINNEAPOLIS. Solar Power Array for the Concentration of 06 p0095 N75-19847 Energy (SPACE)
[PB-236247/31 06 p0071 N75~16114 Summary of results of solar power arrays for the concentration of energy study 06 p0089 N75-18756 [PB-238003/8] Digest of energy facts for water resources studies in Minnesota [PB-239961/6] 07 p0156 N75~26515 [PB-2399076]
Research applied to solar thermal systems
[PB-241089/2]
Research applied to solar thermal power systems
[PB-241090/0]
08 p0201 B75-28544 Regional impacts of alternative energy fuel and mineral resources [PB-239583/8] Wational materials policy allocation strategies [PB-241125/4] 08 p0205 N75-30667 [PB-240941/5] 08 p0199 N75-Materials technology in the near-term energy A regional energy information system for Minnesota: A preliminary design
[PB-241124/7] 08 p0205 N75-30944
Haster plan for REIS implementation
[PB-241126/2] 08 p0205 N75-30945 program [PB-240942/3] Solar heating/cooling of buildings: Current Design considerations for a comprehensive building community projects [PB-241117/1] regional energy information system [PB-241123/9] 08 p0206 N7
HINNESOTA UNIV., ST. PAUL.
Use of thermally enriched water for growing field crops in Hinnesota Seminar on Industrial Energy Conservation and Seminar on Solar Space Heating and Cooling [PB-241462/1] 08 p0212 N75-33498 08 p0206 N75-30946

07 p0159 N75-27549

[PB-240112]

MISSOURI UNIV., ROLLA.
Solar kine: Answer to the agricultural energy challenge of our time 06 p0086 N75-18721 Evaluation of thermal methods for recovery of viscous oils in Missouri and Kansas f PB-237831/31 06 p0090 N75-18762 MITRE CORP., BEDFORD, MASS.
Residential energy consumption and small scale options of energy systems for space heating
options of energy systems for space heating
ope-239941/81
07 p0154 N75-26501 A systems approach to innovative solutions to the energy problem [PB-242189/9] 08 p0213 N75-33505 BITRE CORP., HCLEAU, VA.
Program plan for environmental effects of energy
[PB-235115/3] 05 p0040 N75-15177 A comparative analysis of the energy consumption for several urban passenger ground transportation systems [PB-238041/8] 06 p0107 N75-21160 National energy flow accounts [PB-239275/1] 07 p0146 N75-24539 An analysis of constraints on increased coal production [PB-240613/0] 07 p0157 N75-26525 Transportation energy conservation: A program plan of policy-oriented research [PB-240734/4] 08 08 p0200 N75-28528 [PB-240/34/4] 00 pu200 m/3-20320

MITRE CORP., WASHINGTON, D.C.

Japanese/United States Symposium on Solar Energy
systems. Volume 1: Summary of proceedings
[MTR-6284-VOL-1] 05 p0036 N75-14264 HOWSANTO RESEARCH CORP., DAYTON, OHIO.

Effect of gas turbine efficiency and fuel cost
on cost of producing electric power

[PB-234159/2] 05 p0034 N75-13397 Efficiencies in power generation [PB-234160/0]
MOUND LAB., MIAMISBURG, OHIO.
Advanced heat source concepts 05 p0034 N75-13398 05 p0024 N75-10591 NATIONAL ACADEMY OF ENGINEERING, WASHINGTON, D.C. Evaluation of coal-gasification technology.

Part 1: Pipeline-W quality gas Part 1: Pipel [PB-234036/2] 05 p0034 N75-13396 [PB-234036/2] 05 p0034 N75-13396
Evaluation of coal-gassification technology.
Part 2: Low and intermediate BTU fuel gases
[PB-234042/0] 05 p0036 N75-14273
HATIONAL ACADENY OF SCIENCES - NATIONAL RESEARCH
COUNCIL, WASHINGTON, D.C.
Evaluating integrated utility systems
[PB-238765/2] 07 p0136 N75-22925 Mineral resources and the environment [PB-239579/6] 07 p0 07 p0153 N75-26486 Mineral resources and the environment. Appendix to section 1: Report of panel on materials conservation through technology [PB-239580/4] 07 p0153 N75-26487 [PB-239580/4] Mineral resources and the environment. Appendix to section 2: Report of panel on estimation of mineral reserves and resources [PB-239581/2] 07 p0153 N75-26488 Mineral resources and the environment. Appendix to section 3: Report of panel on the implications of mineral production for health and the continuous section for health and the continuous s and the environment [PB-239582/0] Mineral resources and the environment. Appendix to section 4: Report of panel on demand for

07 p0153 N75-26490

08 p0199 N75-28503

08 p0205 N75-30665

08 p0205 N75-30668

```
MATIONAL ARRONAUTICS AND SPACE ADMINISTRATION. AMES RESEARCH CENTER, HOFFETT PIELD, CALIP.
      Transportation vehicle energy intensities. A joint DOT/BASA reference paper [NASA-TH-X-62404] 05 p0035 B75-
                                                                    05 p0035 #75-13690
      United States transportation fuel economics
Onited States transportation rues economics
(1975 - 1995)
[BASA-TH-X-3197] 06 p0107 B75-

EATIONAL ABRONAUTICS AND SPACE ADMINISTRATION.
GODDARD SPACE FLIGHT CENTRE, GREENBELT, MD.
Exploration for fossil and nuclear fuels from
                                                                     06 p0107 B75-21154
          orbital altitudes
          [NASA-TH-X-70781]
                                                                     05 p0027 ¥75-11413
     Solar Sea Power Plants (SSPP): A critical review and survey
[NASA-TH-X-70783] 05 p0028 N
                                                                    05 p0028 N75-11459
      Remote platform rower conserving system
[NASA-CASE-GSC-11182-1] 05 p003
                                                                    05 p0032 N75-13007
      Electric power for space satellites
[NASA-TH-X-66808] 07 |
                                                                    07 p0137 N75-23678
BATIONAL ABBOHAUTICS AND SPACE ADMINISTRATION.
LYNDON B. JOHNSON SPACE CENTER, HOUSTON, TEX.
An evaluation: The potential of discarded tires
         as a source of fuel
         [ WASA-TM-X-58143 ]
                                                                    05 p0038 N75-15153
Technology survey of electrical power generation and distribution for MIUS application [MASA-TH-X-58127]
BATIOBAL ABROHAUTICS AND SPACE ADMINISTRATION.
                                                                    08 p0207 N75-31573
LANGLEY RESEARCE CENTER, LANGLEY STATION, VA.
     Puture long-range transports: Prospects for improved fuel efficiency [NASA-TH-X-72659] 06 p0079 N75-1 Synthetic fuels for ground transportation with
                                                                    06 p0079 N75-17339
         special emphasis on hydrogen [MASA-TH-X-72652]
                      TH-X-72652]
An annotated bibliography
07 p0159 R75-27557
                                                                    06 p0103 N75-20868
     Energy:
         [ NASA-TH-X-66766 ]
Energy: An annotated bibliography
[NASA-TM-X-72433] 07 p0159 N75-27558
WATIONAL ABROHAUTICS AND SPACE ADMINISTRATION.
LEWIS BESBARCH CESTER, CLEVELAND, OHIO.
    WIS RESEARCH CERTER, CLEVELAND, UNIO.

Wind energy developments in the 20th century

[NASA-TH-X-71634] 05 p0033 R75-13380

Cost and size estimates for an electrochemical

bulk energy storage concept

[NASA-TH-X-3192] 05 p0039 R75-15161

Structural analysis of wind turbine rotors for
         HSF-HASA Hod-0 wind power system
         [NASA-TH-X-3198]
                                                                   06 p0080 N75-17712
     Preliminary study of advanced turbofans for low
energy consumption
[MASA-TM-X-71663] 06 p0084 #75-18:
                                                                    06 p0084 #75-18241
     Solar collector performance evaluated outdoors at WASA-Lewis Research Center
     [NASA-TM-I-71689] 07 p0128 N7
Plans and status of the NASA-Lewis Research
                                                                   07 p0128 N75-21794
         Center wind energy project [NASA-TM-X-71701]
     [NASA-TM-X-71701] 07 p0128 N75-21795
DOT/NASA comparative assessment of Brayton
    DOT/NASA comparative assessment of Brayton engines for guideway vehicles and busses. volume 2: Analysis and results [NASA-SP-354-VOL-2] O7 p0133 N75-22745 Summary of high efficiency silicon solar cell meeting held at NASA-Lewis [NASA-TH-X-71729] O7 p0138 N75-23681 Aerodynamic design of a free power turbing for a
     Aerodynamic design of a free power turbine for a 75 KW gas turbine automotive engine
[HASA-TH-X-71714] 07 p0140 H75-24106
The high intensity solar cell: Key to low cost
     photovoltaic power
[NASA-TH-X-71718] 07 p0140 N75-24108
The effect of sunshine testing on terrestrial
         solar cell system components
    [HASA-TH-X-71722] 07 p0140 H75-24109
Cost competitiveness of a solar cell array power source for ATS-6 educational TV terminal [HASA-TH-X-71720] 07 p0140 H75-24110
     Outdoor flat-plate collector performance
         prediction from solar simulator test data
[HASA-TE-X-71707] 07 p0140 H75-24111
     A compressor designed for the energy research
         and development agency automotive gas turbine
         program
    [HASA-TH-X-71719] 07 p0141 H75-241
Standardized solar simulator tests of flat plate
                                                                   07 p0141 N75-24116
         solar collectors. 1: Soltex collector with
        two transparent covers [NASA-TM-X-71738]
                                                                   07 p0141 #75-24118
```

```
V-grooved silicon solar cells
[NASA-TH-I-71715]
                                                     07 p0141 B75-24119
     reliminary study of advanced turboprops for low energy consumption
[BASA-TH-I-71740] 07 p0146 B75-2473
                                                     07 p0146 #75-24739
     [ MASA-TH-T-71740] U7 p0146 W75-24739

Turbine design and application, volume 3
[ WASA-SP-290-VOL-3] 07 p0147 W75-24741

Summary of BASA Lewis Research Center solar
heating and cooling and wind energy programs
[ WASA-TH-T-71745] 07 p0154 W75-26497

Potential structural material problems in a
       hydrogen energy system [BASA-TH-X-71752]
                                                     07 p0154 H75-26500
     The long term energy problem and aeronautics
                                                     08 p0202 N75-29012
     The 100 kW experimental wind turbine generator
       project
        ( NAŠA-TM-X-71758)
                                                     08 p0202 N75-29546
     Liquid-metal binary cycles for stationary power [NASA-TN-D-7955] 08 p0205 N75-30649
     Puel-conservative engine technology
     08 p0206 N75-31074 Solar collector performance evaluation with the
       BASA-Lewis solar simulator-results for an all-glass-evacuated-tubular selectively-coated
        collector with a diffuse reflector
                                                   08 p0207 N75-31568
       [ NASA-TH-X-71695 ]
     The NASA-Lewis/ERDA solar heating and cooling
       technology program
[NASA-TH-X-71800]
                                                     08 p0210 N75-32592
     Cost and size estimates for an electrochemical
     bulk energy storage concept
[MASA-TH-X-71805] 08 p0210 H75-.
Preliminary results of the large experimental
                                                     08 p0210 N75-32593
        wind turbine phase of the national wind energy
        program
     [MASA-TH-X-71796] 08 p0210 875-32594
Initial comparisons of solar collector
        performance data obtained out-of doors and
       with a solar simulator [NASA-TH-X-71626]
                                                     08 p0211 N75-32595
     Incorporating energy conservation techniques in
the operation of existing LeRC R and D
facilities
       [ WASA-TM-X-71813 ]
                                                    08 p0212 N75-33494
BATIONAL ABROWAUTICS AND SPACE ADMINISTRATION.
MARSHALL SPACE PLIGHT CENTER, HUNTSVILLE, ALA
    Solar energy absorber [NASA-CASE-MFS-22743-1]
                                                    05 p0024 N75-10585
     Solar energy trap
[BASA-CASE-BFS-22744-1] 05 p0024 W
Analytical description of the modern steam
                                                    05 p0024 #75-10586
       automobile
       [NASA-TH-X-72199]
                                                    05 p0035 N75-14134
    Photovoltaic cell array [WASA-CASE-MPS-22458-1]
                                                    07 p0134 N75-22900
     Solar residential heating and cooling system
       development test program [WASA-TM-X-64924]
                                                    07 p0135 H75-22903
     Batural environment design criteria for the Solar Electric Propulsion Stage (SBPS)
[#ASA-TH-X-64929] 07 p0138 #75-23682
    The development of a solar residential heating
       and cooling system [MASA-CR-142728]
                                                    07 p0140 N75-24107
    Mechanical thermal motor
       [ WASA-CASE-MFS-23062-1]
                                                    07 p0160 #75-27561
    Pluid manifold design for a solar energy storage
       tank
       [ WASA-TH-X-64940 ]
                                                    07 p0160 N75-27562
Solar energy power system
[MASA-CASE-BFS-21628-2] 08 p0202 N75-29548
WATIONAL ARROHAUTICS AND SPACE ADMINISTRATION.
WATIONAL SPACE TECHNOLOGY LABS., BAY SAINT LOUIS,
HISS.
    Bio-conversion of water hyacinths into methane
       gas, part 1 [ BASA-TM-X-72725 ]
                                                    07 p0160 N75-27564
HATIONAL ARROWAUTICS AND SPACE ADMINISTRATION.
PASADENA OPPICE, CALIF.
Low to high temperature energy conversion system
                                                    06 p0074 N75-16972
       [ NASA-CASE-NPO-13510-1]
    Solar powered pump
[#ASA-CASE-MPO-13567-1] 07 p0133 M75-22
Stirling cycle engine and refrigeration systems
[#ASA-CASE-MPO-13613-1] 07 p0133 M75-22
                                                    07 p0133 N75-22746
                                                    07 p0133 975-22747
    Solar pond [NASA-CASE-NPO-13581-1]
                                                    07 p0160 N75-27560
```

```
Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] . 08 p0199 N75-28519
Electric power generation system directory from
         laser power
[NASA-CASE-NPO-13308-1]
                                                                 08 p0204 N75-30524
NATIONAL APROBAUTICS AND SPACE ADMINISTRATION,
WASHINGTON, D.C.
Our prodigal sun
     Nuclear system that burns its own wastes shows
         promise
      [NASA-MENS-RELEASE-/>-44]
Research and technology operating plan summary:
Fiscal year 1975 research and technology program
f NASA-TH-X-70410]
06 p0096 N75-20155
         [NASA-NEWS-RELEASE-75-44]
                                                                 06 p0085 N75-18716
[NASA-TH-X-70410] 06 p0096 N75-20155
HATIOHAL AEROSPACE LAE., AMSTERDAM (METHERLANDS).
Impact of future fuels on military aero-engines
06 p0075 N75-16981
HATIOHAL BUREAU OF STANDARDS, BOULDER, COLO.
Hydrogen future fuel: A literature survey
issued quarterly, issue no. 6
05 p0027 N75-11110
                                                                 05 p0027 N75-11110
      Hydrogen-future fuel-A bibliography (with
Hydrogen-ruture ruel-A bibliography (With emphasis on cryogenic technology)
[COM-75-10289/7] 07 p0155 N7
Selected topics on hydrogen fuel
[COM-75-10619/5] 08 p0207 N7
NATIONAL BURBAU OF STANDARDS, WASHINGTON, D.C.
Energy R/D Data Workshop
[PB-237493/2] 07 p0130 N7
                                                                 07 p0155 N75-26509
                                                                 08 p0207 N75-31575
                                                                 07 p0130 N75-21811
      Retrofitting existing housing for energy
     conservation: An economic analysis
[COM-75-50049/6] 07 p0135 N75-22914
Marine pollution monitoring (petroleum):
Proceedings of a Symposium and Workshop held
     at the National Bureau of Standards
[COM-75-50071/0] 07 p0146 N75-24183
Method of testing for rating solar collectors
based on thermal performance
         [CON-75-10276/4]
                                                                 07 p0150 N75-25321
     Dimensions/NBS, volume 59, number 2, February 1975 (COM-75-50141/02) 07 p0151 N75-25330 National Bureau of Standards annual report: Fiscal year 1974 [COM-75-10465/3] 08 p0206 N75-30948
     [COM-75-10465/3] 08 p0206 N75-30948
The NBS computerized carpool matching system:
User's guide

[COH-75-10691/4] 08 p0214 N75-33749

NATIONAL CENTER FOR ENERGY MANAGEMENT AND POWER,
PHILADELPHIA, PA.

Latent heat and sensible heat storage for solar
         heating systems
[PB-236190/5]
                                                                 06 p0077 N75-17005
      Technology for the conversion of solar energy to
         fuel gas
[PB-238103/6]
                                                                 06 p0104 N75-20883
      Technology for the conversion of solar energy to
         fuel gas
[PB-238545/8]
                                                                 07 p0136 N75-22919
     Electric power rights: One approach to rationing [PB-238537/5] 07 p0143 N75-24138 An approach to the power shortage problem:
         Optimal allocation of existing excess reserves through interregional transmission
     [PB-238578/9] 07 p0144 N75-24151
The residential user and the electrical load
         factor
         [PB-238535/9]
                                                                 07 p0145 N75-24152
      Interim standard for solar collectors, first
         draft
         [PB-239757/8]
                                                                 07 p0150 N75-25313
      Conservation and better utilization of electric
         power by means of thermal energy storage and solar heating. Solar collector performance
         studies
         [PB-239355/1]
                                                                 07 p0150 N75-25320
     Preliminary investigation into regulatory powers and policies on electric utility peak load
     [PB-239761/0] 07 p0151 N75-25324
Research on solar cell arrays and electric energy
[PB-239338/7] 07 p0155 N75-26504
Investment possibility of financial institutions
in solar heating
[PB-239756/0]
         [PB-239756/0]
                                                                 07 p0155 N75-26511
```

```
The study of priorities in the electrical energy allocation problem
      [PB-239762/8] 07 p0156 N75-26516
An analysis of the potential for shifting
         electric power demand within daily load
         requirement
         [ PB-239764/4 ]
                                                              07 p0156 N75-26517
      The prospects of energy demand scheduling
        [PB-239763/6]
                                                              07 p0156 N75-26518
      Research and development of low cost processes for integrated solar arrays
         [PB-239760/2]
                                                              07 p0156 N75-26519
     Solar collector performance studies
[PB-239758/6]
07 p0156 N75-26520
Conservation and better utilization of electric
         power by means of thermal energy storage and
         solar heating
     [PB-239395/7] 07 p0157 N75-26521
Conservation and better utilization of electric
power by means of thermal energy storage and
         [PB-239395/7]
         power by means of thermal submary solar heating, executive submary 07 p0157 N75-26522
         [PB-239394/0]
     [PB-239394/0] 07 p0157 #75-26522
Energy rationing and energy conservation:
Foundations for a social policy
[PB-239766] 07 p0162 N75-27579
The problem of peak load pricing subject to rate
         of return constraint [PB-239765]
                                                             07 p0163 N75-27964
      Integrated solar powered climate conditioning
         systems
SYSTEMS
[PB-239759/4] 08 p0200 N75-28527
NATIONAL COMMUNICATIONS SYSTEM, ARLINGTON, VA.
Legal economic, and energy considerations in the use of underground space
[PB-236755/5]
06 p0080 N75-17749
NATIONAL ENVIRONMENTAL RESEARCH CENTER, LAS VEGAS,
     Radiological surveillance program for the project Gasbuggy production test, 15 May - 6 November 1973 [NBRC-LV-539-30] 06 p0073 N75-10
                                                             06 p0073 N75-16337
NATIONAL GAS TURBINE ESTABLISHMENT, PYESTOCK
 (BNGLAND) .
      Energy resources and utilization
                                                              06 p0075 N75-16983
WATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION,
SILVER SPRING, ND.
Report and recommendations of the Solar Energy
Data Workshop
[PB-238066/5] 06 p0089 N75-18757
Waste heat disposal from nuclear power plants
[COM-75-10407/5] 07 p0158 N75-27324
WATIONAL PLANNING ASSOCIATION, WASHINGTON, D.C.
     Demand for scientific and technical manpower in
energy-related industries: United States
1970-1985
        [ PB-240865 ]
                                                             08 p0201 N75-28964
NATIONAL RESEARCH DEVELOPMENT CORP., LONDON
 (ENGLAND) .
      Pressurised fluidized bed combustion
        [PB-236498/2]
                                                             06 p0065 N75-15769
      Pressurized fluidized bed combustion
[PB-235591/5] 06 p0065 N75-15772
NATIONAL SCIENCE POUNDATION, WASHINGTON, D.C.
The National Geothermal Energy Research Program
                                                             06 p0098 N75-20832
     The NSP/RANN FY 1975 program for geothermal resources research and technology 06 p0098 N75-20833
      Proceedings of the Conference on Energy
        Conservation in Commercial, Residential and Industrial Buildings
        [PB-240306/1]
                                                             .08 p0200 N75-28539
BATIONAL TRANSPORTATION CRUTER, PITTSBURGE, PA.
Project Clean Air 1972, LNG conversion of GH-71 series diesel engine [PB-236585/6] 06 p0090 N75-1874 NATO COMMITTEE ON THE CHALLENGES OF MODERN SOCIETY,
                                                             06 p0090 N75-18783
BRUSSELS (BELGIUM).

Air pollution: Conference on Low Pollution
Power Systems Development
[PB-240564/5]

07 p0162 N7
                                                             07 p0162 N75-27618
NAVAL ACADEMY, ANNAPOLIS, MD.

Converting cellulosic waste to fuel: A
literature review
[AD-A009400] 08 p0211 N75-33
NAVAL AIR SYSTEMS COMMAND, WASHINGTON, D.C.
Energy conversion. 1: Non-propulsive aspects
[AD-A000077] 06 p0079 N75-13
                                                             08 p0211 N75-32596
```

06 p0079 N75-17454

WAVAL CIVIL ENGINEERING LAB., PORT HUENERE, CALIF. Comparative performance characteristics of cylindrical parabolic focusing and flat plate Heat transfer design and proof tests of a [CONF-741104-3] 06 p0103 N75-20872
Ruclear reactor process heat capabilities,
potential, and economics
[CONF-741032-1] 07 p0131 N75-22112
Study of the application of HTGR to a petroleum
refinery petrochemical complex
[CONF-741144-1] 07 p0142 N75-24126
HSF-RANN energy abstracts radioisotope thermoelectric generator [AD-A002218] 06 p0093 solar energy collectors [CONF-741104-3] [AD-A002218] 06 p0092 N75-19608 WAVAL INTELLIGENCE SUPPORT CENTER, WASHINGTON, D.C. Thermodynamics of liquid metal MHD converters 07 p0144 N75-24141 [AD-A007415] A short handbook on fuels [AD-A004358] 07 p0158 N75-27170 WAVAL POSTGRADUATE SCHOOL, HORTEREY, CALIF. MSF-RANN energy abstracts. A journal of energy research [ORNL-EIS-74-52-VOL-2-NO-6] Electrical energy allocations at Mavy and Marine A monthly abstract Corps bases [AD-A009821] 08 p0211 N75-32598 07 p0146 N75-24532 OCEAN SYSTEMS, INC., RESTON, VA.
At-sea testing of a high seas oil recovery system
[AD-A006938] 07 p0136 N75-2295 WEDERLANDS SCHEEPS-STUDIECENTRUM THO, DELPT. On the potentialities of polyphenylene oxide (PPO) as a wet-insulation material for cargo tanks of LNG-carriers 07 p0136 N75-22953 OCEANIC POUNDATION, WAIHANALO, HAWAII. [REPT-194-M] Seaward extension of urban systems: 05 p0035 N75-14002 MEW SOUTH WALES UNIV., KENSINGTON (AUSTRALIA).

Comparison of the environmental aspects of
nuclear and fossil fueled power stations feasibility of offshore coal-fired electrical power generation [COM-75-10592/4] 08 p0208 N75-31579 [CONF-740555-1] OFFICE OF OIL AND GAS, WASHINGTON, D.C. 06 p0077 N75-16995 BEW YORK STATE ASSEMBLY SCIENTIFIC STAPP, ALBANY.
Economic and energy conservation relationship
relevant to state of New York building design
and contract awards Vulnerability of natural gas systems [AD-A007583] 07 p0144 H75-24143 OFFICE OF THE CHIEF OF ENGINEERS (ARMY), WASHINGTON, D.C. 06 p0082 N75-17824 [PB-237006/2] Army installation energy requirements in CONUS ORLAHO HA INDUSTRIAL DEVELOPHENT AND PARK PLANNING,
OKLAHO HA CITY. Use of solar energy in buildings in New York state
[PB-236974/2] 06 p0083 N75-17825
Proceedings of the New York State Assembly/AISLE Conference on Energy and the Environment, Application study of a nuclear coal solution Volume 1 gasification process for Oklahoma coal, volume 1 [PB-236156/6] 05 p0037 N75-14279 [PB-237936/0] 06 p0091 N75-18801 NEW YORK STATE ATOMIC AND SPACE DEVELOPMENT OKLANOMA STATE UNIV., STILLWATER.

Development of an electrical generator and
electrolysis cell for a wind energy conversion AUTHORITY, N.Y.
Study of an integrated power, water and wastewater utility complex svstem [PB-239408/8] 07 p0157 N75-26523 [PB-239272/8] 07 p0150 N75-25315 OKLABOMA UNIV., HORMAN.
Oil displacement by different surfactant and
polymer waterflood systems NORTH CAROLINA STATE DEPT. OF ADMINISTRATION, RALBIGH. A state energy management plan for North Carolina, phase 1: A quantitive description of the current situation and analysis of the 07 p0134 N75-22858 OLD DOMINION UNIV. RESEARCH FOUNDATION, HORFOLK, VA. DOMINION UNIV. RESEARCH FOUNDATION, NORFOLK, VA.
Interdisciplinary study of atmospheric processes
and constituents of the mid-Atlantic coastal
region. Attachment 3: Data set for Craney
Island oil refinery installation experiment
[NASA-CR-142823] 07 p0141 N75-24121
Interdisciplinary study of atmospheric processes
and constituents of the mid-Atlantic coastal
region. Attachment 4: Data set for
background investigation of atmospheric
constituents for Nansemond River site
[NASA-CR-142821] determinants and consequences of future energy use [PB-238197/8] 07 p0130 N75-21819 NORTHERN STATES POWER CO., MINNEAPOLIS, MINN. Solar Power Array for the Concentration of Energy (SPACE) [PB-236247/3] 06 p0071 N75-16114 Summary of results of solar power arrays for the concentration of energy study [PB-238003/8] 06 p0089 NT5-18756
HUCLEAR REGULATORY COMMISSION, WASHINGTON, D.C.
Huclear energy center site survey: Scope of work
[PB-240453/1] 07 p0152 NT5-25348 [NASA-CR-142821] 07 p0141 N75-24122 OLD DOMINION UNIV., HORFOLK, VA.
Investigation of current university research concerning energy conversion and conservation in small single-family dwellings
[NASA-CR-143430] 08 p0207 N75-31 Environmental statement related to the proposed Callaway Plant units 1 and 2. Union Electric Company docket nos. STN 50-483 and STN 50-486 [PB-240193/3] 07 p0152 N75-25349 08 p0207 N75-31570 [NASA-CR-143430]
OREGON STATE UNIV., CORVALLIS.
Applied aerodynamics of wind power machines
07 p0133 H75-22669 Animal waste conversion systems based on thermal discharge OAK RIDGE MATIONAL LAB., TENN.

Total energy use for commercial aviation in the US
[ORNL-MSF-BP-68] 05 p0023 N75-10039
NSF-Bann energy abstracts: A monthly abstract [PB-240113] 07 p0159 N75-27548 OSLO LYSVERKER (HORWAY). Oslo's future power supply NSF-Hann energy abstracts: A monthly abstract journal of energy research [ORNL-EIS-74-52-VOL-2-NO-1] 05 p0024 N75-10592 NSF-BANN energy abstracts. A monthly abstract journal of energy research, volume 2, no. 4 [ORNL-EIS-74-52-VOL-2-4] 05 p0029 N75-11469 [NP-20121] 06 p0067 N75-16087 PACIFIC GAS AND BLECTRIC CO., SAN RAMON, CALIF. Residential energy conservation [TID-26534]
BSF-BBM energy abstracts
[ORHI-EIS-74-52-VOL-2-5] The hydrogen sulfide emissions abatement program at the Geysers Geothermal Power Plant 05 p0031 N75-12442 06 p0102 875-20859 PARSONS (RALPH M.) CO., PASADERA, CALIF.
Technical evaluation services, clean liquid
and/or solid fuels from coal 06 p0068 N75-16092 Recommended research program in geothermal chemistry [PB-237216/7] [WASH-1344] 06 p0077 N75-16997 07 p0129 N75-21803 Coal refining Demonstration plant, clean boiler fuels from coal. Volume 3: Preliminary design/economics [ORNL-TR-2827] 06 p0086 N75-18724 Survey of gas and cil burners for use with analysis [PB-238529/2] HSF/RAHH-ORNL potassium boiler
[ORNL-MSF-EP-45]
Operational, maintenance, and environmental
problems associated with a fossil fuel-fired 07 p0142 N75-24127 T, HARWICK, MITCHELL AND CO., WASHINGTON, I Industrial energy studies of ground freight transportation, volume 1 06 p0087 N75-18728

[PB-236016/2]

06 p0069 N75-16099

potassium steam binary vapor cycle
[ORNL-MSP-EP-30] 06 p0090 M75-18769

Industrial energy studies of ground freight transportation. Volume 2: Appendices [PB-236017/0] 06 p0069 N75-16100 [PB-236017/0] 06 p006
PBHBSYLVANIA STATE UHIV., UHIVEBSITY PARK. Dependence of coal liquefaction behavior on coal characteristics [PB-238522/7] 07 p0130 N75 The relation of coal characteristics to coal 07 p0130 N75-21812 liquefaction behavior
[PB-239261/1] 07 p0151 N75-25
Puel use in the US electrical utility industry,
1971 - 1990 industry 07 p0 151 N75-25327 [PB-237142/5] 07 p0154 N75-26493 An agro-power-waste water complex for land disposal of waste heat and waste water [PB-239675/2] 07 p0161 N75-27570 Financial incentives and pollution control: A case study [PB-241479/5] 08 p0208 N75-31610 PENNSYLVANIA UNIV., PHILADELPHIA. [AD-784964] Economic-environmental power dispatch 07 p0128 h75-21791
PINKEL (I. IRVING), FAIRVIEW PARK, OHIO. Alternative fuels for aviation [R-1592-FEA] 06 p0075 N75-16980 PITTSBURG AND MIDWAY COAL MINING CO., KANSAS CITY, Development of a process for producing an ashless, low-sulfur fuel from coal. Volume 2: Laboratory studies. Part 1: Autoclave experiments overview [PB-236305/9] 05 p0040 N75-15169
Development of a process for producing an ashless low sulfur fuel from coal. Volume 4.
Product studies. Part 2. Annotated bibliography on mineral fiber production from coal minerals [PB-237763/0] [PB-237763/8] 06 p0095 N75-19839 Development of a process for producing an ashless, low-sulfur fuel from coal. Volume 4. Product studies. Part 3 Products from coal [PB-237764/6] 06 p0095 N75-19840
Development of a process for producing an ashless, low-sulfur fuel from coal. Volume 4.
Product studies. Part 4. Sulfur removal from use coal minerals [PB-237765/3] [PB-237765/3] 06 p0095 N75-19841
Development of a process for producing an ashless, low-sulfur fuel from coal. Volume 4.
Product studies. Part 5. Developmental and rate studies in processing of coal signal. rate studies in processing of coal minerals
[PB-237766/1] 06 p0095 N75-19842 07 p0127 N75-21790 POLISH ACADEBY OF SCIENCES, WARSAW.

Conversion of electrical energy into laser radiation energy in high pressure mixtures of molecular gases 07 p0133 N75-22722 POLITECHICO DI TORINO (ITALY).

Contribution to the improvement of the regulating process of ignition controlled engines [PUBL-165] 08 p0206 N75-31285 POPE, EVANS, AND ROBBINS, INC., ALEXANDRIA, VA.
Development of coal fired fluidized-bed boilers 06 p0065 N75-15668 [PB-235899/2] Development of coal fired fluidized-bed boilers
[PB-235898/4] 06 p0065 N75-15669
PRATT AND WHITHEY AIRCRAFT, SOUTH WINDSOR, COMM.
Development of advanced fuel cell system, phase 2
[NASA-CR-134721]
Development of advanced fuel cell system phase 3 Development of advanced fuel cell system, phase 3
[NASA-CR-134818] 07 p0154 N75-26496 PRINCETON UNIV., N.J.
Utilization of plasma exhaust energy for fuel production [COO-3028-7] 05 p0028 N75-11465 Summary report of workshop on Energy Related Basic Combustion Research [PB-236714/2] 06 p0079 N75
Stratigraphy, sedimentology and oil and gas
geology of the Lower Cretaceous in central

06 p0079 N75-17456

07 p0137 N75-22961

Alberta

PORDUE UNIV., LAPAYETTE, IND.

Novel materials for power systems. Part 3:

Selective emitters for energy conversion

05 p0026 N75-10608 QUEEN (DOUGLAS m.), INC., NEW CANAAR, CONN.
Industrial energy study of the hydraulic cement 06 p0087 N75-18730 RADIATION, INC., MELBOURNE, PLA.

Remote platform power conserving system
[NASA-CASE-GSC-11182-1] 05 p0032 N75-13007

RAND CORP., SANTA MONICA, CALIP.

Energy consumption by industries in support of national defense: An energy demand model
[AD-7040661] 05 p0031 N75-12449 [AD-784964] 05 p0031 N75-12449 Electricity conservation measures in the commercial sector: The Los Angeles experience 05 p0034 N75-13388 A USAF energy projection model
[AD-A006928] 07 p0132 N
Protecting the US petroleum market against 07 p0132 N75-22476 future denials of imports [AD-A006643]
US and Soviet MHD technology: 07 p0137 N75-23387 A Comparative [AD-A004614] U/ pulls and indirect energy demand models for DoD 08 p0214 N75-33515 RENSSELAER POLYTECHNIC INST., TROY, N.Y. Electrochemical power sources [AD-A001610] 06
RESEARCH TRIANGLE INST., DURHAM, N.C. 06 p0094 N75-19836 A state energy management plan for North Carolina, phase 1: A quantitive description of the current situation and analysis of the determinants and consequences of future energy [PB-238197/8] 07 p0130 N75-218: Symposium proceedings: Environmental Aspects of 07 p0130 N75-21819 Fuel Conversion Technology [PB-238304/0] 07 p0145 N75-24179
RESOURCES FOR THE FUTURE, INC., WASHINGTON, D.C.
US energy R and D policy: The role of economics
[RFF-WORKING-PAPER-EN-4] 06 p0080 N75-17783 [RFF-WORKING-PAPER-EM-4] 06 p0080 N75-17783
REYMOLDS, SMITE AND HILLS, JACKSONVILLE, FLA.
Energy conservation study of Veterans
Administration hospitals. Stage 1: Base line survey
[PB-241095/9] 08 p0;
Energy conservation study of Veterans 08 p0203 N75-29559 Administration hospitals. Stage 2: Operational study [PB-241096/7] 08 p0203 N75-29560 Energy Conservation study of Veterans
Administration hospitals. Stage 3: Hospital energy control system [PB-241097/5] 08 p0203 N75-29561 Energy conservation study of Veterans
Administration hospitals. Stage 4: Basic
detail data for stage 1, 2, and 3
[PB-241098/3] 08 p0203 N75-29562
RHODE ISLAND UNIV., KINGSTON.
Petroleum degradation in low temperature marine and estuarine environments [AD-A007588] 07 p0146 N75-24191 RICE UNIV., HOUSTON, TEX.
Proceedings of the Workshop on Needs for Pundamental Research in Catalysis as Related to the Energy Problem [PB-236683/9] [PB-236683/9] 06 p0078 N75-17006
ROCKWELL INTERNATIONAL CORP., DOWNEY, CALIF.

Solar electric propulsion system thermal analysis
[NASA-CR-120770] 07 p0147 N75-24842
ROCKWELL INTERNATIONAL CORP., EL SEGUNDO, CALIF.

Technology application at Rockwell International
06 p0078 N75-17189
ROYAL AIRCRAFT ESTABLISHMENT, PARNBOROUGH (ENGLAND).
A generalised analysis of the performance of a
variety of drive systems for high Reynolds
number, transonic wind tunnels
[RAE-TR-73134] 06 p0073 N75-16572

RUTGERS UNIV., NEW BRUNSWICK, N.J.
Benthal decomposition of adsorbed octadecane 06 p0106 N75-20891 SAN DIEGO GAS AND BLECTRIC CO., CALIF. San Diego Gas and Electric Company Imperial Valley geothermal activities 06 p0100 N75-20847 Utility company views of geothermal development 06 p0102 N75-20864 SANDIA LABS., ALBUQUERQUE, N. MEX. Solar incidence factor and other geometric considerations of solar energy collection
[SAND-74-26] 05 p0034 N75-13390 Solar energy: Sandia's photovoltaic research program SLA-74-281] 05 p0034 N75-13392 Axial temperature differential analysis of linear focused collectors for solar power [SLA-74-5078] 05 p0036 N75-14268 Sensible heat storage in liquids [SLL-73-0263] 06 p0074 N75-Design analysis of asymmetric solar receivers 06 p0074 N75-16773 [SAND-74-0124] 06 p0076 N75-16986 Development and performance of a miniature, high-voltage thermal battery [SLA-74-5363] 06 p0076 N75-16988 Review of thermal battery technology [SLA-74-5381] 06 p 06 p0076 N75-16989 Pellet type thermal battery [SAND-74-0007] 06 p0076 #75-16991 Integration of photovoltaic and solar thermal energy conversion systems [SAND-74-0093] 06 p0076 N75-16992 A feasibility study 06 p0077 H75-16994 Sixty minute thermal battery: [SLA-73-5888] practical model law for chemical explosive fracture of oil shale 06 p0078 N75-17023 Solar total energy program [SAND-74-0208] 06 p0081 N75-17810 In situ oil shale: A cost sensitivity analysis
[SAND-74-0146] 06 p0087 #75-18727
Bechanical properties of oil shale from Anvil Point under conditions of uniaxial compression [SAND-74-0035] 06 p0092 N75-19390
In situ oil shale conversion and recovery [SLA-74-0162] 06 p0093 N75-19825
Sizing of focused solar collector fields with specified collector tube inlet temperature [SLA-74-5288] 0 Fuel cells: Direct conversion of 06 p0094 N75-19832 electrochemical energy into electricity
[SAND-74-0125] 06 p0103 N75-20869 [SAND-74-0125] Plywheel energy systems [SAND-74-0113] 07 p0129 N75-21802 SANDIA LABS., LIVERHOBE, CALIF.
Prospects for solar energy utilization [SAND-74-8604] 05 p0034 N75-13389 Survey of hydrogen compatibility problems in energy storage and energy transmission applications [SAND-74-8219] 06 p0087 N75-18726 SCIENCE COMMUNICATION, INC., MCLEAN, VA.
Intra industry capability to substitute fuels [PB-237605/1] 06 p0093 H75-19814
SCIENTIFIC SOFTWARE CORP., ENGLEWOOD, COLO.
HER: Ultimate recovery vs rate. A reservoir simulation study. Volume 1 [PB-239767/7] 07 p0157 N75-26526 BER: Ultimate recovery vs rate. A reservoir simulation study. Volume 2: Appendices
[PB-239768/5] 07 p0157 N75-26527
SCIENTIFIC TRANSLATION SERVICE, SANTA BARBARA, CALIF. A system utilizing solar energy [NASA-TT-F-16089] 05 p0033 N75-13386 Mission and organization of the DFVLR: .Two years of integrated society of German aeronautical and space flight research [NASA-TT-F-16086] 05 p0035 05 p0035 E75-13882 Solar energy [NASA-TT-F-16092] 05 p0038 N75-15149 Hydrocarbon power fuel from the gasoline boiling [NASA-TT-P-16399] 07 p0147 N75-24957

```
SELECT COMMITTEE ON SHALL BUSINESS (U. S. HOUSE).
Energy data requirements of the Federal
Government. Part 4: Propane and crude oil;
conflicts of interest
              [GPO-41-639]
                                                                                      08 p0207 N75-31566
 SHELDAHL CO., MORTHFIELD, MINH.
Solar Power Array for the Concentration of
             Energy (SPACE)
[PB-236247/3]
                                                                                      06 p0071 H75-16114
         Summary of results of solar power arrays for the concentration of energy study
             [PB-238003/8]
  SOBOTKA AND CO., INC., NEW YORK.
        Industrial energy study of the petroleum
refining industry
[PB-238671/2] 07 p0130
                                                                                     07 p0130 H75-21818
  SOLAR, SAN DIEGO, CALIF.
        Solar 10 kW turboalternator silent power program
[AD-A006549] 08 p0203 H75-29555
 [AD-A006549] 08 polysomer [AD-A006549] 08 po
             geophysical exploration of the Marysville
             geothermal area
 06 p0099 N75-20839 SOUTHWEST RESEARCH INST., SAN ANTONIO, TEX. A practical model law for chemical explosive
             fracture of oil shale
                                                                                     06 p0078 N75-17023
         The collaborative study of RPA methods, 5, 6,
             and 7 in fossil fuel-fired steam generators
[PB-237695/2] 06 p0091 N75-18788
        Technological improvements to automobile fuel consumption. Volume 1: Executive summary
             [PB-238677/9]
                                                                                    07 p0132 N75-22478
        Technological improvements to automobile fuel
             consumption.
                                              Volume 2A: Sections 1 through 23
                                                                                    07 p0132 N75-22479
            [PB-238678/7]
        Technological improvements to automobile fuel
 consumption. Volume 2B: Sections 24 and 25
and appendixes A through I
[PB-238679/5]
SPECTROLAB, INC., SYLMAR, CALIF.
Terrestrial photovoltaic power systems with
                                                                                     07 p0132 N75-22480
            sunlight concentration [PB-236180/6]
                                                                                    06 p0072 N75-16120
        Photovoltaic solar power systems
                                                                                   07 p0139 N75-24098
 SPERRY RAND CORP., HUNTSVILLE, ALA. Photovoltaic cell array
            [ NASA-CASE-MPS-22458
                                                              -1]
                                                                                    07 p0134 N75-22900
 SPERRY RAND RESEARCH CENTER, SUDBURY, MASS.
        Geothermal down well pumping system
                                                                                    06 p0101 N75-20854
 STANFORD RESEARCH INST., MENLO PARK, CALIF.
        Effective utilization of solar energy to produce
            clean fuel [PB-233956/2]
                                                                                    05 p0026 N75-10605
        Continued development of energy transmission and
            conversion systems [PB-236181/4]
                                                                                    05 p0037 N75-14278
        Pollution-free electrochemical power generation
            from low grade coal
       [PB-236162/4] 06 p0070 N75-16
The potential for developing Alaskan coals for clean export fuels, phase 1
[PB-238539/1] 07 p0127 N75-2
                                                                                    06 p0070 N75-16109
                                                                                    07 p0127 N75-21786
        Meeting California's energy requirements, 1975 -
            2000
                                                                                   07 p0149 N75-25297
        Materials requirements for advanced energy
            systems: New fuels. Volume 3: Materials research needs in advanced energy systems
            using new fuels
            [ AD-A004550]
                                                                                   07 p0158 N75-27168
        Plausibility of a restricted energy use scenario
[COM-75-10749/0] 08 p0213 M75-335
[COM-75-10749/v]
STANFORD UNIV., CALIF.
Statistical estimation of wildcat well outcome probabilities by visual analysis of structure contour maps of Stafford County, Kansas
06 p0092 N75-19778
                                                                                   08 p0213 N75-33507
       Geothermal reservoir engineering research
06 p0101 N75-20853
       Stimulation and reservoir engineering of
            geothermal resources
            [PB-239718/0]
                                                                                   07 p0153 N75-26485
       Workshop on Fundamental Research in Homogeneous catalysis as Related to US Energy Problems
[PB-240177/6] 08 p0200 N75-28524
```

STEIN (RICHARD G.) AND ASSOCIATES, NEW YORK.	TRIAS UNIV., AUSTIR.
Research design construction and evaluation of a low energy utilization school, research phase 1	 Basic research needs for tertiary oil recovery: Proceedings of a National Science Foundation
[PB-242217/8] 08 p0213 #75-33504	Workshop
STEVERS INST. OF TECH., HOBOKER, B.J.	[PB-236726/6] 06 p0066 H75-16072
Bydrogen as a fuel	Technology assessment of portable energy RDT and P
[AD-787484] 06 p0066 N75-15818	[NASA-CR-137655] 07 p0160 N75-27565
Hydrogen as a fuel	An assessment of the applicability of high
[AD-A006984] 07 p0132 H75-22477 STORE AED WEBSTER ENGINEERING CORP., BOSTON, MASS.	voltage AC circuit breakers to inductive energy storage
Application study of a nuclear coal solution	08 p0206 N75-31341
gasification process for Oklahoma coal, volume 1	TRITRON ELECTRODICS, INC., SYLHAR, CALIF.
[PB-236156/6] 05 p0037 H75-14279	Terrestrial photovoltaic power systems with
SUN OIL CO., MARCUS HOOK, PA.	sunlight concentration
Preparation of gas turbine engine fuel from	[PB-238582/1] 06 p0105 N75-20886
synthetic crude oil derived from coal	TEXTRON, INC., SYLMAR, CALIF.
[AD-A007923] 07 p0147 H75-24966 SUNDSTRAND AVIATION-ROCKFORD, ILL.	Terrestrial photovoltaic power systems with sunlight concentration
Organic Rankine cycle silent power plant 1.5 kW,	[PB-238506/0] 07 p0143 H75-24136
28 volts dc	THE FUTURES GROUP, GLASTONBURY, CONN.
[AD-A000900] 06 p0088 N75-18745	Institutional and environmental problems in
SYRACUSE UNIV., N.Y.	geothermal resource development
Economic and energy conservation relationship	06 p0100 N75-20843
relevant to state of New York building design and contract awards	THERMO ELECTRON CORP., WALTHAM, MASS. Solar energy for process steam generation
[PB-237006/2] 06 p0082 N75-17824	[PB-238109/3] 07 p0145 N75-24154
Use of solar energy in buildings in New York state	TORONTO UNIV. (ONTARIO).
[PB-236974/2] 06 p0083 N75-17825	A review of the status of MHD power generation
Glass-Si heterojunction solar cells	technology including suggestions for a
[PB-239282/7] 07 p0145 N75-24156	Canadian MHD research program
SYSTEMS CONTROL, INC., PALO ALTO, CALIF.	[UTIAS-39] 05 p0035 N75-13641
Electric power systems analysis research [PB-239236/3] 07 p0143 N75-24139	TRANSPORTATION SYSTEMS CENTER, CAMBRIDGE, MASS. Energy statistics. A supplement to the summary
(12 203200) and and anti-	of National Transportation Statistics
T	[PB-236767/8] 07 p0130 N75-21817
	Study of potential for motor vehicle fuel
TARIFF COMMISSION, WASHINGTON, D.C.	economy improvement. Fuel economy test
World oil developments and US oil import policies [GPO-22-893] 07 p0148 B75-25294	procedure panel report no. 6
TECHNICAL RESEARCH CENTRE OF PINLAND, HELSINKI.	[PB-241776/4] 08 p0210 N75-32470 Study of potential for motor vehicle fuel
Technology and community development materials	economy improvement. Technology panel report
processing, and electrical and nuclear	no. 4
technology	[PB-241774/9] 08 p0210 N75-32471
05 p0031 N75-12695	Study of potential for motor vehicle fuel
TECHNISCHE HOCHSCHULE, DARMSTADT (WEST GERMANY).	economy improvement. Safety implications
Impact on aerodynamic design .06 p0075 N75-16982	panel report no. 2 [PB-241772/3] 08 p0212 N75-33410
TECHNISCHE UNIV., BERLIE (WEST GERMANY).	Study of potential for motor vehicle fuel
The modular solar energy satellite:	economy improvement. Truck and bus panel
Investigation on large solar cell surfaces in	report no. 7
space for the purpose of earth power supply	[PB-241777/2] 08 p0212 N75-33411
[ILR-17-1974] 05 p0036 N75-14271 Analysis of technological development problems	TRW SYSTEMS GROUP, REDONDO BEACH, CALIF.
posed by use of crbital systems for energy	Solar heating and cooling of buildings, phase O. Volume 2: Final report
conversion and transfer in and from space	[PB-235423/1] 05 p0042 N75-15190
08 p0199 N75-28517	Solar heating and cooling of buildings, phase O.
TELEDYNE ISOTOPES, TIMONIUM, MD.	Volume 3: Appendices
Economic radioisotope thermoelectric generator	[PB-235424/9] 06 p0070 N75-16103
program: Program plan [IESD-3112-3]	Solar heating and cooling of buildings, phase O. Volume 1: Executive summary
[IESD-3112-3] 05 p0034 N75-13393 Economic radioisotope thermoelectric generator	[PB-235422/3] 06 p0070 N75-16107
study program	Phase 0 study for a geothermal superheated water
[IESD-3112-1] 05 p0036 N75-14269	proof of concept facility
Economic radioisotope thermoelectric generator	06 p0102 N75-20858
study program: Appendices.	Ames Heat Pipe Experiment (AHPE) experiment
[IESD-3112-2] 05 p0036 N75-14270	description document [Nasa-CR-114413] 07 n0138 N75-23880
TRUMESSEE UNIV. SPACE INST., TULLAHORA. MHD energy conversion	[NASA-CR-114413] 07 p0138 N75-23880 Study on electrofluid dynamic power generation
[AD-785419] 05 p0032 N75-12807	[AD-A004762] 07 p0155 N75-26507
TRYAS ASH UNIV., COLLEGE STATION.	TRW SYSTEMS, REDONDO BEACH, CALIF.
Production of oil from fractured reservoirs by	Technology assessment of portable energy RDT and
water displacement	P, phase 1
07 p0127 N75-21716 TRXAS INSTRUMENTS, INC., DALLAS.	[NASA-CR-137654] 07 p0134 N75-22901
Development of low cost thin film	Technology assessment of portable energy RDT and P, phase 1
polycrystalline silicon solar cells for	[NASA-CR-137653] 07 p0134 N75-22902
terrestrial applications	TYCO LABS., INC., WALTHAM, MASS.
[PB-238505/2] 06 p0105 N75-20890	Nickel-cadmium cells
TEXAS SOUTHERN UNIV., HOUSTON.	[NASA-CR-143715] 07 p0128 N75-21792
Collection and concentration of solar energy	
using Presnel type lenses [NASA-CR-142194] 06 p0080 N75-17784	U
TEXAS UNIV., ABLINGTON.	UNION CARBIDE CORP., TONAWANDA, B.Y.
Application of fast sparse-matrix techniques and	Survey study of the efficiency and economics of
an energy estimation model for large	hydrogen liquefaction
transporation networks	[NASA-CR-132631] 07 p0133 N75-22486
08 p0201 N75-28967	UNION OIL CO. OF CALIFORNIA, SANTA ROSA.
	Geothermal steam condensate reinjection 06 p0102 N75-20863
	10 F1.12 2.0 20000

UNITED AIR LINES, INC., SAN PRANCISCO, CALIF. Puel conservation capability and effort by commercial air carriers [BASA-CR-137624] [HASA-CR-137624] 05 p0039 H75-15157 UNITED AIRCRAFT CORP., BAST HARTFORD, COHR. Peasibility demonstration of a solar powered turbocompressor air conditioning and heating system [PB-238570/6] [PB-238570/6] 07 p0130 N75-21816 Study of fuel cell powerplant with heat recovery [NASA-CR-141854] 07 p0148 N75-25296 Technical and economic feasibility of the ocean thermal differences process as a solar-driven energy process [PB-239374/2] LED-239374/2] 07 p0150 H75-25317 URBAW HASS TRANSPORTATION ADMINISTRATION, WASHINGTON, D.C. Papers and proceedings of two energy crisis seminars [PB-239164/7] 07 p0 156 H75-20 UTAH UHIV., SALT LAKE CITY. Refractory materials for coal-fueled BED power 07 p0156 N75-26513 generation FPB-239607/51 .07 p0157 N75-26524 VERSAR, INC., SPRINGFIELD, VA.
Industrial energy study of the drug
manufacturing industries for the Federal Energy Administration/US Department of Commerce [PB-238994/8] 07 p0142 H75-24130 VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG. Design optimization in underground coal systems
[PB-239075/5] 07 p0145 B75-24153
VOORHERS (ALAH M.) AND ASSOCIATES, INC., MCLEAN, VA. Guidelines to reduce energy consumption through transportation actions (PB-235983/41 06 p0068 N75-16094 WASHIEGTON UNIV., SEATTLE.

The effect of Alaskan crude oil and selected hydrocarbon compounds on embryonic development of the Pacific Oyster, Crassostrea gigas 06 p0090 875-18764 WASHINGTON UNIV., ST. LOUIS, No.
The effect of recent energy price increases on field crop production costs [PB-238659/7] 06 p0107 N75-21155 WEBB INST. OF MAVAL ARCHITECTURE, GLEN COVE, N.Y. Puel conservation in ship operations
[COM-75-10466/1] 08 po
WEST VIRGIBLA OBIV., MORGABTOWN. 08 p0202 N75-29270 The design and development of an interactive energy model [PB-236144/2] 06 p0070 N75~16110 WESTERN POREST PRODUCTS LAB., VANCOUVER (BRITISH COLUMBIA) . Energy plantations: Should we grow trees for power plant fuel
[PB-238417/0] 07 p0130 H75WESTERN GEAR COEP., LYNWOOD, CALIP.
Energy plantations: Should we grow trees for power plant fuel?
[VP-X-129] 05 p0030 H75-07 p0130 N75-21815 05 p0030 N75-12436 WESTINGHOUSE ELECTRIC CORP., BALTIMORE, MD.
Solar heating and cooling of buildings. Phase 0: Pinal report, volume 1 [PB-235427/2] [PB-235427/2] 05 p0042 N75-15192 Solar heating and cooling of buildings. Phase O: Final report. Volume 2: Appendices A-H [PB-235428/0] LEB-Z35428/0] -- appendices A-H 05 p0042 N75-15193 Solar heating and cooling of buildings. Phase 0: Pinal report. Volume 3: Appendices 0-Y [PB-Z35429/8] 05 p0002 NGC O: Plant report. Executive summary

[PB-235426/4] O5 p0042 #75-15195

Solar heating and cooling experiment for a school in Atlanta [PB-240611/4] 07 p0155 H75-26510 WESTINGHOUSE ELECTRIC CORP., BOULDER, COLO. Solar thermal electric power systems
[PB-235475/1] 05 pl
Solar thermal electric power systems 05 p0038 H75-14283

06 p0071 N75-16118

WESTINGHOUSE BLECTRIC CORP., LESTER, PA. Advanced coal gasification system for electric power generation [PB-236971/8] [PB-236971/8] 06 p0089 B75-18747 ... WESTINGHOUSE ELECTRIC CORP., MADISON, PA. Clinch River Breeder Beactor: A combined power and fuel source [CONP-740609-4] [CONF-740609-4] 05 p0038 N75-14593 WESTINGHOUSE BLECTRIC CORP., PITTSBURGE, PA. Clean power generation from coal [PB-234188/1] 05 p0035
WISCONSIN UNIV., MADISON.
Wisconsin superconductive energy storage 05 p0035 #75-13401 project, volume 1 [PB-238082/2] 06 p0105 N75-20887 Hodeling of solar heating and air conditioning [PB-239189/4] 07 p0136 N75-2 A simulation model of the development of 07 p0136 N75-22926 petroleum refining capacity [AD-A003723] 07 p0161 #75-27569 The household energy game [COM-75-10304/4] 07 p0161 N75-27578 Increased fuel economy in transportation systems by use of energy management. V General results and discussion Volume 1: [PB-240220/4] 07 p0163 #75-27970 Glass recycling and reuse
[PB-239674/5] 08 p0200
WOODS HOLE OCEABOGRAPHIC INSTITUTION, MASS. 08 p0200 N75-28536 Energy exchange at the surface of the western North Atlantic Ocean
[AD-A007296]
WYONING UNIV., LARANIE.
The direct production of hydrocarbons from 07 p0146 N75-24285 coal-steam systems
[PB-239356/9] 07 p0138 N75-23740

X

IBROX ELECTRO-OPTICAL SYSTEMS, PASADENA, CALIP.

Solar collector thermal power system. Volume 1:

Preliminary technology systems study
[AD-A000940] 06 p0091 N75-19339

Solar collector thermal power system. Volume 2:

Development, fabrication, and testing of
fifteen foot heat pipes
[AD-A000941] 06 p0091 N75-19340

Solar collector thermal power system. Volume 3:
Basic study and experimental evaluation of
thermal train components
[AD-A000942] 06 p0091 N75-19341

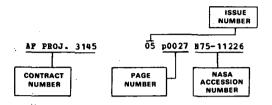
[PB-236368/7]

CONTRACT NUMBER INDEX

ENERGY / A Continuing Bibliography (Issue 8)

FEBRUARY 1976

Typical Contract Number Index Listing



Listings in this index are arranged alphanumerically by contract number. Under each contract number, the accession numbers denoting documents that have been produced as a result of research done under that contract are arranged in ascending order with the IAA accession numbers appearing first. The accession number denotes the number by which the citation is identified in either the IAA or STAR section. Preceding the accession number are the issue and page number in the particular supplement in which the citation may be found.

AP PROJ. 3145
05 p0027 N75-11226
05 p0037 N75-14274
06 p0091 N75-19339
06 p0091 N75-19340
06 p0091 N75-19341
07 p0155 N75-26502
AP PROJ. 4506
05 p0026 N75-10609.
AP PROJ. 6813
05 p0032 N75-12807
AP PROJ. 7116
07 p0155 N75-26507
07 p0159 N75-27559
AF PROJ. 9752
05 p0032 N75-12807
AP PROJECT 3012-14
05 p0018 A75-16869
AID/CSD-2584
08 p0212 N75-33498
AID/TA/C-1089
08 p0200 N75-28529
ARPA ORDER 189-1
05 p0031 N75-12449
07 p0162 N75-27901
ARPA ORDER 2338
05 p0026 N75-10608
ARPA ORDER 2484
07 p0158 N75-27168
ARPA ORDER 2615
06 p0066 N75-15818
07 p0132 N75-22477
AT (03-4) -959
05 p0002 A75-10503
AT (04-3) -943
05 p0038 N75-14832
AT (10-1)-1375
06 p0074 N75-16651
06 p0076 N75-16985
AT (11-1) -2431
06 p0106 N75-21101
AT (11-1) -3056
08 p0188 A75-45957
08 p0188 A75-45972
AT (11-1)-3073
05 p0014 A75-12996
07 p0124 A75-37836
AT (26-1) -539
06 p0073 N75-16337
AT (29-1) -789
05 p0034 N75-13389
05 p0034 N75-13390
05 p0034 N75-13392
06 p0074 N75-16773
06 p0076 N75-16986

... 3445

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06 p0076 N75-16991
          p0076 N75-16992
          p0081 N75-17810
      ۸ĸ
           p0087 N75-18726
          p0087 N75-18727
p0092 N75-19390
      06
           p0093 N75-19825
           p0103 N75-20869
      07
07 p0129 N75-21802
AT(29-2)-2831
      06 p0092 N75-19354
      06
          p0092 N75-19355
AT (29-2) -2960
05 p0003 A75-10505
AT (33-1) - 1-GEN-53
05 p0024 N75-10591
AT (45~1) - 1830
07 p0 152 N75-25695
AT (49-15) -3063
05 p0003 A75-10508
06 p0065 N75-15742
BMPT-RV11-V59/73(2) -T0-20
06 p0051 175-24216
C-5-35546
      08 p0213 N75-33507
CNES-71
      06 p0053 A75-24252
DA PROJ. 157-62704-AH-94
      07 p0 129 N75-21806
ROJ. 157-62705-AH-94
    PROJ.
    06 p0095 N75-19847
PROJ. 1T0-611023-A-34A
      07 p0136 N75-22917
    PROJ. 1T1-61102-A-34A
06 p0104 N75-20882
PROJ. 1T6-62705-A-053
      06 p0094 N75-19836
    PROJ. 4A0-62103-A-896
      06 p0104 N75-20881
    PROJ. 4A1-62121-A-896
      06 p0104 N75-20881
DA PROJ.
            4A7-62719-A-886
08 p0 205 N75-30659
DA-31-124-ARO (D) -462
07 p0161 N75-27569
DAAB07~69-C-0063
06 p0094 N75-19836
DAAB07~72-C-0317
. 05 p0008 A75-10567
DAAB07-73-C-0138
06 p0095 N75-19847
DAAB07-73-C-0227
05 p0008 A75-10565
DAAB07-73-C-0282
```

07 p0129 N75-21804

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DAAB07-74-C-0072
 06 p0104 N75-20882
DAAK02-71-C-0311
08 p0203 N75-29555
DAAK02-72-C-0472
06 p0088 N75-18745
DAAK02-73-C-0084
07 p0136 N75-22917
DAAK02-74-C-0367
08 p0186 A75-45943
DAAK02-75-C-0080
08 p0205 N75-30659
05 p0031 N75-12449

07 p0132 N75-22476

07 p0137 N75-23387

07 p0162 N75-27901

Dahc15-73-C-0246
05 p0032 N75-12857
DAHC15-73-C-0313
07 p0158 N75-27168
DAHC15-73-G-11
05 p0026 N75-10608
DI-BM-IC-8647
        06 p0077 N75-17004
 DI-BM-JO-155010
        08 p0201 N75-28552
DI-BM-SO-133081
      08 p0199 N75-28503
        06 p0069 N75-16099
06 p0069 N75-16100
DI-14-01-001-1676
07 p0161 N75-27577
DI-14-01-0001-390
07 p0130 N75-21812
DI-14-01-0001-478
06 p0065 N75-15668
06 p0065 N75-15669
DI-14-01-0001-479
DI-14-01-0001-4/9

06 p0088 N75-18743

DI-14-01-0001-496

05 p0040 N75-15169

06 p0095 N75-19839
        06 p0095 N75-19840
06 p0095 N75-19841
06 p0095 N75-19842;
p1-14-01-0001-498
05 p0025 N75-10603
DI-14-01-0001-1196
07 p0138 N75-23740
DI-14-01-0001-1652
06 p0083 N75-17827
DI-14-01-0001-1654
       06 p0071 N75-16111
06 p0087 N75-18732
DI-14-01-0001-1656
07 p0130 N75-21818
DI-14-01-0001-1657
07 p0145 k75-24158
DI-14-01-0001-1659
06 p0088 k75-18744
DI-14-01-0001-1665
06 p0087 N75-18730
DI-14-01-0001-1937
07 p0157 N75-26525
DI-14-01-0001-2051
       06 p0083 N75-17826
DI-14-01-0001-4006
05 p0037 N75-14277
DI-14-08-0001-13238
07 p0 157 N75-26526
07 p0 157 N75-26527
DI-14-31-0001-4258
07 p0157 N75-26550
DI-14-31-0001-4271
08 p0208 N75-31581
DI-14-32-001-1511
       06 p0065 N75-15772
DI-14-32-0001-1212
       05 p0040 N75-15173
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DI-14-32-0001-1213
 05 p0009 A75-10577
DI-14-32-0001-1216
       05 p0034 N75-13396
 05 p0036 N75-14273
DI-14-32-0001-1219
       05 p0037 N75-14279
 DI-14-32-0001-1223
       05 p0035 N75-13401
 DI-14-32-0001-1231
       07 p0145 N75-24153
 DI-14-32-0001-1234
07 p0129 N75-21803
07 p0142 N75-24127
 DI-14-32-0001-1236
06 p0072 N75-16125
DI-14-32-0001-1509
06 p0071 N75-16113
06 p0078 N75-17007
06 p0078 N75-17008
DI-14-32-0001-1511
       06 p0065 N75-15769
 DI-14-32-0001-1512
06 p0088 N75-18740
DI-14-32-0001-1513
       06 p0087 N75-18734
 DI-14-32-0001-1514
06 p0089 N75-18747
DI-14-32-0001-1516
       07 p0127 N75-21786
 DI-14-32-0001-1519
06 p0065 N75-15768
DI-14-32-0001-1520
07 p0151 N75-25325
DI-14-32-0001-1524
06 p0105 N75-20889
DI-14-32-0001-1533
06 p0092 N75-19599
DI-14-32-0001-1536
      06 p0068 N75-16093
06 p0083 N75-17828
DI-14-32-0001-1543
06 p0072 N75-16151
DOC-4-35596
08 p0200 N75-28530
DOT-CG-32781-A
07 p0136 N75-22953
DOT-FH-11-7413
07 p0162 N75-27581
DOT-0S-30112
07 p0163 N75-27970
DOT-OS-30119
      05 p0040 N75-15179
      05 p0041 N75-15184
DOT-05-40171
      08 p0202 N75-29271
DOT-OST-627
07 p0133 N75-22484
DOT-TSC-627
      07 p0132 N75-22481
07 p0132 N75-22482
07 p0133 N75-22483
DOT-TSC-628
      07 p0132 N75-22478
07 p0132 N75-22479
07 p0132 N75-22480
EPA-02-0629
08 p0212 N75-32627
EPA-68-01-0461
07 p0 162 N75-27619
07 p0143 N75-24135
EPA-68-01-1859
08 p0204 N75-30331
EPA-68-01-2103
07 p0131 N75-22199
07 p0131 N75-22200
07 p0131 N75-22201
EPA-68-01-2112
      05 p0041 N75-15187
          p0041 N75-15188
      05 p0041 N75-15189
```

CONTRACT NUMBER INDEX

•	COSIRACI	INUBER INDEX	• •
06 p0085 N75-18443	#A-2-4214	WAS5-23156	08 p0 190 A75-45982
EPA-68-01-2114 07 p0162 N75-27583	08 p0202 H75-29270 HASW-2481	05 p0023 875-10347 8AS7-100	07 p0136 W75-22930
EPA-68-01-2250	05 p0024 H75-10587	05 p0002 A75-10481	MSP AER74-17521-A01 08 p0213 M75-33509
08 p0208 N75-31610	05 p0033 R75-13382	05 p0002 A75-10503	HSP AG-352
EPA-68-02-0255 07 p0162 N75-27612	05 p0033 H75-13383 05 p0033 H75-13384	05 p0005 A75-10530 05 p0007 A75-10556	08 p0203 #75-29587
EPA-68-02-0300	05 p0033 N75-13385	05 p0008 A75-10571	05 p0023 B75-10039
07 p0159 N75-27556 RPA-68-02-0611	05 p0039 N75-15154	05 p0008 A75-10574	05 p0029 #75-11469
07 p0151 N75-25326	06 p0080 B75-17786 06 p0081 B75-17787	05 p0010 A75-11283 05 p0010 A75-11284	NSP AG-485 06 p0069 N75-16097
EPA-68-02-0623	06 p0093 N75-19821	07 p0119 A75-36275	06 p0069 875-16098
06 p0091 N75-18788 BPA-68-02-0629	06 p0096 #75-20160 07 p0128 #75-21796	05 p0029 #75-12064	06 p0072 N75-16121
06 p0095 H75-19879	07 p0128 #75-22584	06 p0069 H75-16097 06 p0074 H75-16972	06 p0072 B75-16122 06 p0080 B75-17785
06 p0096 N75-19880	07 p0135 H75-22904	06 p0080 N75-17785	BSP AG-493
08 p0204 #75~29596 #P1-68~02-0643	07 p0160 H75-27563 HASW-2483	06 p0098 #75-20831	07 p0150 #75-25321
06 p0084 N75~17853	05 p0033 N75-13386	07 p0133 B75-22746 07 p0133 B75-22747	NSF AG-495 06 p0089 175-18757
EPA-68-02-0645	05 p0035 N75-13882	07 p0158 N75-27540	NSP AG-502
06 p0090 N75-18786 EPA-68-02-1099	05 p0038 N75-15149 07 p0147 N75-24957	07 p0160 H75~27560	07 p0144 N75-24145
05 p0010 A75-11286	NAS1-12018	08 p0199 N75-28519 NAS8-27793	NSP AG-545 06 p0098 N75-20831
B2A-68-02-1308	08 p0171 A75-41698	07 p0114 A75-32914	NSF ATA-73-07742-A02
06 p0095 N75~19838 06 p0106 N75~20936	06 p0091 N75-19224 WAS1-13008	NAS8-29905 07 p0147 N75-25088	06 p0080 B75-17783
08 p0211 N75-32606	08 p0171 A75-41669	NAS8-30268	05 p0042 #75-15195
BPA-68-02-1320 05 p0034 N75-13397	08 p0193 A75-46028	06 p0086 N75-18719	NSF C-310
05 p0034 N75-13398	NAS 1-13142 06 p0084 N75-18220	HAS8-30315 08 p0192 A75-46016	06 p0080 H75-17749 08 p0199 H75-28503
EPA-68-02-1323	NAS1-13226	06 p0067 N75-16085	08 p0205 #75-30665
06 p0088 H75~18739 BPA-68~02-1325	06 p0079 N75-17336 NAS1-13291	NAS8-30542	08 p0205 #75-30668
07 p0145 N75~24179	05 p0010 A75-11281	07 p0147 H75-24842 HAS9-13297	HSF C-466 07 p0138 F75-23691
BPA-68-02-1329	BAS1-13395	07 p0147 #75-25237	07 p0155 #75-26503
08 p0211 H75-32607 08 p0213 H75-33503	07 p0133 N75-22486 NAS1-13620	NAS9-13413 05 p0036 N75-14135	MSF C-756
gPA-68-02-1332	07 p0 141 B75-24113	HAS9-14220	07 p0143 #75-24139 #SF C-827
05 p0025 N75~10601	NAS2-5503	07 p0148 N75-25296	06 p0062 A75-28598
EPA-68-02-1485 08 p0187 A75-45950	07 p0138 N75-23880 NAS2-6473	NAS9-14305 07 p0140 875-24105	06 p0095 #75-19843
EPA-68-03-2136	06 p0055 A75-25013	MA59-14306	08 p0174 A75-44755
08 p0212 N75~33491	NAS2-6995	06 p0086 N75-18722	06 p0100 #75-20843
07 p0149 #75~25306	06 p0073 N75-16557 06 p0096 N75-20291	NAS9-14323 07 p0147 B75-24802	NSP C-853 05 p0042 875-15190
EQC-322	06 p0097 N75-20292	NAS9-14524	06 p0070 #75-16103
.06 p0070 N75-16105 ESTEC-2198/74-AK	NAS2-7208 05 p0039 N75-15157	08 p0199 N75-28518 NATO-508	06 p0070 #75-16107
07 p0114 A75-32913	HAS2-7596	07 p0115 A75~33972	NSF C-854 05 p0019 \$75-16891
PEA-C-03-50034-00	07 p0114 A75-32915	NGL-14-001-001	05 p0042 #75-15192
06 p0093 N75~19814 PEA-C-04-50065-00	NAS2-8310 07 p0114 A75-32919	06 p0064 A75-29137 NGL-34-001-001	05 p0042 #75-15193 05 p0042 #75-15194
08 p0200 #75~28528	NAS2-8444	08 p0204 N75-30438	NSF C-855
PEA~C-50068~00 . 08 p0204 N75~29953	07 p0160 N75-27565 NAS2-8445	NGL-47-003-067	08 p0184 175-45921
PEA-14-01-0001-1715	07 p0134 H75-22901	07 p0141 875-24121 07 p0141 875-24122	05 p0042 875-15191 06 p0070 875-16108
05 p0034 N75-13388	07 p0134 H75-22902	NGR-11-002-181	BSP C-858
PTD PROJ. T74-04-03 06 p0073 N75-16368	NAS3-15339 07 p0123 A75-37243	08 p0193 A75-46027 NGR-18-001-086	05 p0019 A75-16890 08 p0194 A75-46040
07 p0135 N75~22911	06 p0067 N75-16084	05 p0005 A75-10532	06 p0089 #75-18755
p30602~72-C~0401 05 p0026 n75~10609	07 p0154 H75-26496 NAS3-16804	08 p0177 A75~44778	NSP C-867
F30602-72-C-0418	07 p0138 N75-23683	NGT-01-003-004 05 p0033 875-13381	07 p0142 875-24128 07 p0145 875-24155
05 p0018 A75-16869	HAS3-17354	8GT-01-003-044	NSP C-868
05 p0027 n75~11226 p33615-69-c~114	07 p0135 N75-22906 NAS3-17360	05 p0023 B75~10584 BGT-44~005-114	07 p0150 #75-25314 NSF C-869
07 p0159 x75~27559	07 p0124 A75-37404	07 p0 109 A75-29477	07 p0155 #75-26505
P33615-71-C-1456	NAS3-17775	08 p0176 A75-44771	MSP C-903
07 p0155 #75~26502 p33615~71~C~1591	06 p0073 N75-16637 NAS3-17827	06 p0098 N75-20830 07 p0148 N75-25292	07 p0130 #75-21816 #SP C-908
06 p0060 A75~27960	08 p0207 N75-31571	HOAA-NG-43-72	07 p0155 #75-26510
P33615~72-C~1092 06 p0091 N75~19339	NAS3-17835	08 p0206 N75~31562	BSF C-914
06 p0091 x75-19340	08 p0183 A75-45814 NAS3-17862	NOAA-04-3-158-29 08 p0208 N75-31579	07 p0131 H75-21823 07 p0143 H75-24133
06 p0091 #75-19341	07 p0154 B75-26495	NOAA-15-8118B	NSP C-957
P33615~72-C~1258 07 p0159 N75~27559	NAS3-18014 05 p0021 A75-17504	07 p0152 N75-26484 NR PROJ. 083-004	08 p0181 A75-45511
P33615-72-C-1371	06 p0066 N75-16079	07 p0146 N75-24285	HSF CG-00007 07 p0154 H75-26501
07 p0124 A75-37656	BAS3-18517	NR PROJ. 133-076	NSF DI-39519
P33615~73-C-3003 08 p0194 A75-46036	08 p0193 A75-46019 NAS3-18886	07 p0146 N75-24191 NR PROJ. 462-082	08 p0213 N75-33505 NSF EN-44166
P33615-73-C-4085	06 p0055 A75-24957	06 p0096 #75-20157	07 p0137 H75-23391
07 p0155 #75-26507 p44620-69-c-0031	NAS3-19403	06 p0096 #75~20158	NSF GP-41575
05 p0032 #75-12807	08 p0193 A75-46025 NAS5-20968	HSF AER-72-03489 08 p0188 A75-45961	06 p0049 A75-23291 MSF GI-2729
P44620-74-C-0020	07 p0138 N75-23882	HSP AER-72-03579	. 06 p0104 B75-20883
08 p0194 &75-46038 G0133100	NASS-21762 07 p0158 N75-27515	07 p0143 #75-24132 #SF ABR-73-07863A02	WSF GI-04389 06 p0107 W75-21155
06 p0090 #75~18762	NAS5-23102	07 p0124 A75-37850	06 p0107 #75-21155 #SF GI-14024
HUD~H-1875	07 p0128 N75-21792	HSP AER-74-07570	07 p0146 B75-24539
07 p0136 N75~22925	l i	06 p0062 A75-28595	

CONTRACT NUMBER INDEX

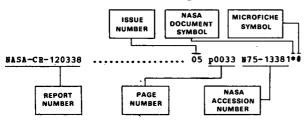
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55 P	GI-27976 05 p0007 A75-10553	07 p0112 A75-32097 05 p0038 N75-14283	NSP GI-44066 05 p0036 N75-14264	8V-1/1-V-67/74-PZ-BB-74 08 p0199 N75-28517
	.06 p0077 ¥75-17005	06 p0071 N75-16118	MSF GI-44210	SNSO-3
	07 p0136 H75-22919	NSP GI-38103	08 p0203 N75-29552	05 p0034 N75-13393
	07 p0150 N75-25320	05 p0037 N75-14281	08 p0203 N75-29570	05 p0036 N75-14269
	07 p0156 N75-26520	05 p0038 N75-14282	NSF GK-38697	05 p0036 N75-14270
	07 p0157 x75-26521	06 p0070 N75-16106	05 p0035 N75-14094	SRI PROJ. ECC-2355
	07 p0157 N75-26522	NSF GI-38319	NSF GN-42243	07 p0149 N75-25297
h2 L	GI-29729 05 p0016 A75-16836	05 p0009 A75-11069 NSF GI-38701	07 p0130 N75-21811	SRI PROJ. PYU-2580
	05 p0017 A75-16842	07 p0134 N75-22897	07 p0151 k75-25329 07 p0152 k75-25774	07 p0158 %75-27168 SWRI PROJ. 02-4003
	06 p0054 A75-24259	NSP GI-38723	NSF GP-37166	06 p0078 N75-17023
	08 p0185 A75-45936	05 p0026 N75-10605	06 p0056 A75-25831	THRC PROJECT MAG-247
, ,	07 p0143 H75-24138	NSF GI-38974	NSF GP-43738	07 p0115 A75-33972
. 1	07 p0.144 N75-24151	07 p0151 N75-25327	06 p0086 N75-18718	V-594P-454
	07 p0145 N75-24152	NSP GI-38981	NSP GP-44105	08 p0203 N75-29559
•	07 p0150 N75-25313	08 p0165 175-38958	06 p0079 N75-17456 NSF GP-44165	08 p0203 N75-29560
	07 p0155 N75-26504 07 p0155 N75-26511	06 p0105 N75-20890 NSF GI-39114	06 p0066 N75-16072	08 p0203 N75-29561
	07 p0156 N75-26516	06 p0062 A75-28594	NSF GP-44178	08 p0203 N75-29562 W-31-109-ENG-38
	07 p0156 N75-26517	07 p0124 A75-37850	06 p0078 N75-17006	06 p0076 ¥75-16984
	07 p0156 N75-26518	05 p0038 N75-14284	BSF GR-32464	06 p0076 N75-16990
	07 p0156 N75-26519	06 p0082 N75-17821	08 p0201 N75-28964	W-7405-ENG-26
	07 p0162 N75-27579	NSF GI-39150	NSF GT-32162	05 p0023 N75-10039
• •	07 p0163 N75-27964 08 p0200 N75-28527	06 p0055 A75-24750 07 p0143 N75-24140	06 p0082 N75-17824	05 p0024 N75-10592
NSP	GI-29731	NSF GI-39151	06 p0083 N75-17825 NSF GT-44112	05 p0029 N75-11469 06 p0068 N75-16092
	08 p0200 N75-28536	05 p0040 N75-15178	07 p0161 n75-27575	06 p0087 N75-18728
NSF	GI-32488	NSF GI-39191 "	NSP GY-11543	06 p0090 N75-18769
	06 p0069 N75-16095	05 p0041 N75-15183	06 p0106 N75-21028	07 p0146 #75-24532
	07 p0145 N75-24157	NSF GI-39241	NSF GZ-2932	W-7405-ENG-36
NZL	GI-32724	06 p0082 N75-17822	08 p0193 A75-46024	05 p0028 N75-11468
MSP	06 p0070 N75-16110 GI-32989A2	NSP GI-39323 07 p0136 N75-22928	NSF ISR-72-05606-A02 06 p0082 N75-17824	05 p0032 N75-12814 05 p0032 N75-13164
	08 p0203 N75-29587	NSF GI-39415	06 p0083 N75-17825	06 p0074 N75-16774
NSP	GI-34027	05 p0004 A75-10518	NSF MPS-04210	06 p0082 N75-17813
	06 p0070 N75-16109	NSF GI-39456	08 p0200 N75-28524	06 p0086 N75-18723
NSF	GI-34029	08 p0174 A75-44753	NSF PTP-74-01555	06 p0106 N75-21097
	06 p0048 175-23018	06 p0088 N75-18742	07 p0156 N75-26512	07 p0127 N75-21391
	07 p0109 A75-29474	NSF GI-39457 05 p0013 A75-12988	NSP SIA-73-07871-A02	W-7405-ENG-48
KCP	07 p0109 A75-29480 GI-34871	07 p0116 A75-34533	08 p0214 N75-33511 NSP SSH-73-07142	05 p0024 N75-10593 05 p0024 N75-10594
Bol	08 p0200 N75-28543	07 p0117 A75-34928	06 p0080 N75-17749	05 p0024 k75 10394
	08 p0201 N75-28544	. 08 p0185 A75-45931	NSF 29726	05 p0039 N75-15166
NSF	GI-34872	08 p0190 A75-45993	· 06 p0059 A75-27780	05 p0043 N75-15462
	06 p0071 N75-16115	NSF GI-39539	NSF-APR74-21034	06 p0066 N75-15781
	06 p0105 N75-20884	06 p0071 N75-16117	08 p0201 N75-28551	06 p0068 N75-16090
we p	08 p0201 N75-28545 GI-34925	NSP GI-39547 07 p0150 N75-25315	NSG-1162	06 p0077 N75-16996
No.	07 p0153 N75-26485	NSF GI-39612	07 p0160 N75-27567 NSG-1168	06 p0079 N75-17279 06 p0093 N75-19827
NSF	GI-34936	08 p0213 N75-33504	08 p0187 A75-45951	06 p0094 N7.5-19830
	08 p0214 N75-33932	NSF GI-40253	NSG-1172	06 p0097 N75-20693
NSP	GI-34975	06 p0069 N75-16096	08 p0207 N75-31570	06 p0104 N75-20875
	07 p0135 x75-22916	NSF GI-40457	NSG-7067	07 p0127 N75-21480
MSF	GI-34979	07 p0109 A75-29473	08 p0187 A75-45951	07 p0127 #75-21781
	06 p0077 N75-17003 07 p0130 N75-21821	06 p0082 n75-17823 07 p0136 n75-22926	NSG-9009 06 p0080 N75-17784	07 p0128 N75-21797 386-01-00-00-72
	07 p0143 N75-24134	NSF GI-41003	HO1-HT-2907	08 p0207 N75-31573
	07 p0144 N75-24147	07 p0113 A75-32860	05 p0037 N75-14278	506-23
	07 p0150 N75-25317	08 p0196 A75-47526	N00014-67-A-0202-0046	05 p0039 N75-15161
	07 p0150 N75-25318	06 p0083 N75-17830	08 p0193 A75-46022	770-18
	07 p0150 N75-25319	07 p0130 N75-21822	06 p0066 N75-15818	08 p0205 N75-30649
-	08 p0213 N75-33502 08 p0213 N75-33508	NSF GI-41019 06 p0071 N75-16114	07 p0132 N75-22477 N00014-68-A-0091	778-00 06 p0080 N75-17712
NSP	GI-34983	06 p0089 n75-18756	08 p0214 N75-33931	791-40-08-06
	07 p0157 N75-26524	NSF GI-41305	N00014-68-A-0215-0013	06 p0103 N75-20868
RSF	GI-34991	06 p0059 A75-27786	07 p0146 N75-24191	791-40-24-1
	05 p0017 A75-16842	05 p0037 N75-14280	N00014-70-C-0133	06 p0107 N75-21154
	06 p0104 N75-20883	06 p0083 N75-17829	06 p0056 A75-25831	791-40-2301
NSF	07 p0136 N75-22919 GI-35100	07 p0135 n75-22915 NSP GI-41306	N00014-74-C-0253 06 p0096 N75-20157	05 p0035 N75-13690 982-42-01-00-72
	07 p0161 N75-27570	08 p0167 A75-39407	06 p0096 N75-20158	05 p0038 N75+15153
NSP	GI-35179	NSF GI-41840	N00014-74-C-0262	*
	08 p0202 N75-29269	07 p0133 N75-22669	07 p0146 N75-24285	
nsp	GI-35179X	NSF GI-41894	N00014-74-C-0568	
MCP	06 p0070 N75-16104 GI-35821	06 p0072 N75-16120 06 p0105 N75-20886	07 p0147 N75-24966	•
H-1	07 p0151 N75-25322	07 p0143 N75-24136	N00014-75-C-0220 07 p0132 N75-22477	
MSP	GI-36371	NSF GI-41895	N00017-72-C-4401	
	'05 p0041 N75-15186	07 p0123 A75-37331	06 p0064 A75-29116	
HSP	GI-36598	06 p0071 N75-16116	06 p0065 N75-15658	•
-07	07 p0144 N75-24144	NSF GI-42944	06 p0085 N75-18594	
Nor	GI-36731 05 m0041 N75-15105	06 p0105 N75-20888	N00019-72-C-0340	
	05 p0041 N75-15185 06 p0072 N75-16119	NSP GI-43098 06 p0105 N75-20885	07 p0114 A75-32919 N62399-73-C-0029	
	.07 p0 143 N75-24 137	NSP GI-43795	08 p0202 N75-29550	
	GI-36731X	07 p0144 n75-24150	PHS-73-2930	•
	08 p0165 A75-38956	NSP GI-43866	07 p0136 N75-22918	•
PSP	GI-37815	06 p0099 N75-20837	PROJ. NSP/RANN	•
	05 p0018 A75-16884	NSF GI-43936	05 p0040 N75-15176	
	07 p0109 A75-29476	08 p0186 A75-45940 I	•	
	And the second s		 -	•
			•	D-3
	•			- -
			•	
			·	

REPORT/ACCESSION INDEX

ENERGY / A Continuing Bibliography (Issue 8)

FEBRUARY 1976

Typical Report/ Accession Number Index Listing



Listings in this index are arranged alphanumerically by report number. The issue and page number indicate the actual Supplement and page where the citation may be located. The accession number denotes the number by which the citation is identified. An asterisk (*) indicates that the item is a NASA report. A pound sign (#) indicates that the item is available on microfiche. A plus sign (+) indicates a document that cannot be microfiched but for which one-to-one facsimile is available.

10 0110 10031111				
A-1645		80	p0207	N75-31571*#
A-5878		06	p0 107	N75-21154+#
		•••	P	2.0 2
AD-A000077	'	06	p0079	N75-17454 #
AD-A000087			p0079	N75-18749 #
		06		
AD-A000211		-06	p0082	N75-17819 #
AD-A000842		06	p0096	N75-20157 #
AD-A000843		06	p0096	N75-20158 #
AD-A000900		06	8800q	N75-18745 #
AD-A000940		06	p0091	N75-19339 #
AD-A000941		06	p0091	N75-19340 #
AD-A000942		06	p0091	N75-19341 #
AD-A001081		06	p0085	N75-18594 #
AD-A001515		06	p0089	N75-18754 #
AD-A001525		07	p0129	N75-21806 #
AD-A001610		06	p0094	N75-19836 #
AD-A002042		06	p0095	N75-19847 #
AD-A002218		06	p0092	N75-19608 #
AD-A002563		06	p0 104	N75-20880 #
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AD-A002717				N75-19705 #
AD-A003136	***************************************	06	p0092	N75-21156 #
AD-A003217		06	p0107	
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AD-A003309		06	p0104	N75-20882 #
AD-A003312		07	p0129	N75-21804 #
AD-A003590		08	p0202	N75-29550 #
AD-A003723		07	p0 161	N75-27569 #
AD-A004216		07	p0155	N75-26502 #
AD-A004263		07	p0 154	N75-26499 #
AD-A004358		07	p0 158	¥75-27170 #
AD-A004550		07	p0158	N75-27168 #
AD-A004614		07	p0162	875-27901
AD-A004762		07	p0 155	₩75-26507 #
AD-A004814	• • • • • • • • • • • • • • • • • • • •	07	p0159	N75-27559 #
AD-A005549		08	p0199	875-28522 #
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AD-A006643		07	p0 137	N75-23387 #
AD-A006803		07	p0 149	N75-25304 #
AD-A006804		07	p0142	N75-24129 #
AD-A006805		07	p0 149	N75-25305 #
AD-A006928		07	p0132	N75-22476 #
AD-A006938		07	p0132	N75-22953 #
AD-A006984		07	p0136	N75-22477 #
AD-A007220				
AD-A007220		07	p0136	N75-22917 #
AD-A007296		07	p0146	N75-24285 #
		07	p0 144	N75-24141 #
AD-A007583		07	p0 144	N75-24143 #
AD-A007588		07	p0 146	N75-24191 #

AD-A007799	
	07 p0144 N75-24142 #
AD-A007923	
	07 p0147 N75-24966 #
AD-A008343	07 p0149 N75-25307 #
AD-A008938	08 p0205 N75-30659 #
AD-A008951	08 p0205 N75-30660 #
AD-A009600	08 p0208 N75-31580 #
AD-A009821	08 p0211 N75-32598 #
AD-A010914	08 p0214 N75-33931 #
	08 p0214 N75-33515
AD-A010968	00 P0214 N75-33513 4
AD-779352	05 p0031 N75-12448 #
AD-782888	05 p0027 N75-11226 #
AD-783764	05 p0025 N75-10598 #
TE 111111	05 p0026 N75-10836 #
AD-783901	05 p0026 N75-10609 #
AD-784449	05 p0026 N75-10608 #
AD-784708	05 p0025 N75-10597 #
AD-784964	05 p0031 N75-12449 #
AD-785084	05 p0032 N75-12857 #
AD-785419	05 p0032 N75-12807 #
AD-785948	05 p0037 N75-14275 #
AD-786844	05 p0039 N75-15168 #
	10 prob. 270 11277 2
AD-787419	06 p0073 N75-16368 #
AD-787420	07 p0135 N75-22911 #
AD-787484	06 p0066 N75-15818 #
AD-787507	06 p0065 N75-15658 #
AD 707507	00 p0003 M73 13030 F
ADL-C-74830	07 p0138 N75-23683*#
ADL-C-76732-VOL-1	06 p0096 N75-20157 #
ADL-C-76732-VOL-2	06 p0096 N75-20158 #
ADL-C-76971	08 p0202 N75-29271 #
ADL-C-77105	08 p0200 N75-28529 #
ADL-C-77382	08 p0204 N75-29953 #
ADL-C-77591	08 p0201 N75-28552 #
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ADL-78036	08 p0199 N75-28518*#
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AE-RES-74-17	07 p0152 N75-26484 #
,	•
AE-RES-74-17	07 p0152 N75-26484 # 06 p0065 N75-15742 #
,	•
,	•
AEC-SNS-3063-3-VOL-1	06 p0065 N75-15742 #
AEC-SNS-3063-3-VOL-1	06 p0106 N75-15742 #
AEC-SNS-3063-3-VOL-1	06 p0065 N75-15742 # 06 p0106 N75-21099 # 05 p0027 N75-11226 #
AEC-SNS-3063-3-VOL-1 AECL-4840 AFAPL-TE-74-5 AFAPL-TE-74-27	06 p0065 N75-15742 # 06 p0106 N75-21099 # 05 p0027 N75-11226 # 05 p0037 N75-14274 #
AEC-SNS-3063-3-VOL-1 AECL-4840 AFAPL-TE-74-5 AFAPL-TE-74-27 AFAPL-TR-74-47-PT-3	06 p0065 N75-15742 # 06 p0106 N75-21099 # 05 p0027 N75-11226 # 05 p0037 N75-14274 # 07 p0155 N75-26502 #
AEC-SNS-3063-3-VOL-1 AECL-4840 AFAPL-TE-74-5 AFAPL-TR-74-27 AFAPL-TR-74-47-PT-3 AFAPL-TR-74-89-1	06 p0065 N75-15742 # 06 p0106 N75-21099 # 05 p0027 N75-11226 # 05 p0037 N75-14274 # 07 p0155 N75-26502 # 06 p0091 N75-19339 #
AEC-SNS-3063-3-VOL-1 AECL-4840 AFAPL-TE-74-5 AFAPL-TE-74-27 AFAPL-TR-74-47-PT-3	06 p0065 N75-15742 # 06 p0106 N75-21099 # 05 p0027 N75-11226 # 05 p0037 N75-14274 # 07 p0155 N75-26502 # 06 p0091 N75-19339 #
AEC-SNS-3063-3-VOL-1 AECL-4840 AFAPL-TE-74-5 AFAPL-TE-74-27 AFAPL-TE-74-47-PT-3 AFAPL-TE-74-89-1 AFAPL-TE-74-89-2	06 p0065 N75-15742 # 06 p0106 N75-21099 # 05 p0027 N75-11226 # 05 p0037 N75-14274 # 07 p0155 N75-26502 # 06 p0091 N75-19339 # 06 p0091 N75-19340 #
AEC-SNS-3063-3-VOL-1 AECL-4840 AFAPL-TE-74-5 AFAPL-TR-74-27 AFAPL-TR-74-47-PT-3 AFAPL-TR-74-89-1	06 p0065 N75-15742 # 06 p0106 N75-21099 # 05 p0027 N75-11226 # 05 p0037 N75-14274 # 07 p0155 N75-26502 # 06 p0091 N75-19339 #
AEC-SNS-3063-3-VOL-1 AECL-4840 AFAPL-TE-74-5 AFAPL-TE-74-27 AFAPL-TR-74-47-PT-3 AFAPL-TR-74-89-1 APAPL-TR-74-89-2 AFAPL-TE-74-89-3	06 p0065 N75-15742 # 06 p0106 N75-21099 # 05 p0027 N75-11226 # 05 p0037 N75-14274 # 07 p0155 N75-26502 # 06 p0091 N75-19339 # 06 p0091 N75-19340 # 06 p0091 N75-19341 #
AEC-SNS-3063-3-VOL-1 AECL-4840 AFAPL-TE-74-5 AFAPL-TE-74-27 AFAPL-TE-74-47-PT-3 AFAPL-TE-74-89-1 AFAPL-TE-74-89-2	06 p0065 N75-15742 # 06 p0106 N75-21099 # 05 p0027 N75-11226 # 05 p0037 N75-14274 # 07 p0155 N75-26502 # 06 p0091 N75-19339 # 06 p0091 N75-19340 #
AEC-SNS-3063-3-VOL-1 AECL-4840 APAPL-TE-74-5 APAPL-TE-74-27 APAPL-TE-74-89-1 APAPL-TE-74-89-2 APAPL-TE-74-89-3 APOSR-74-1503TE	06 p0065 N75-15742 # 06 p0106 N75-21099 # 05 p0027 N75-11226 # 05 p0037 N75-14274 # 07 p0155 N75-26502 # 06 p0091 N75-19339 # 06 p0091 N75-19340 # 06 p0091 N75-19341 #
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AEC-SNS-3063-3-VOL-1 AECL-4840 APAPL-TE-74-5 AFAPL-TR-74-67 AFAPL-TR-74-47-PT-3 APAPL-TR-74-89-1 AFAPL-TR-74-89-2 AFAPL-TR-74-89-3 AFOSR-74-1503TR AIAA PAPER 74-1066 AIAA PAPER 74-1071 AIAA PAPER 74-1071 AIAA PAPER 74-1072 AIAA PAPER 74-1074 AIAA PAPER 74-1084 AIAA PAPER 74-1085 AIAA PAPER 74-1114 AIAA PAPER 74-1114 AIAA PAPER 75-30 AIAA PAPER 75-30 AIAA PAPER 75-304 AIAA PAPER 75-315 AIAA PAPER 75-315 AIAA PAPER 75-315 AIAA PAPER 75-315	06 p0065 N75-15742 # 06 p0106 N75-21099 # 05 p0027 N75-11226 # 05 p0037 N75-14274 # 07 p0155 N75-26502 # 06 p0091 N75-19339 # 06 p0091 N75-19340 # 06 p0091 N75-19341 # 05 p0002 N75-12807 # 05 p0001 A75-10262 # 05 p0001 A75-10263 # 05 p0001 A75-10264 # 05 p0001 A75-11281** 05 p0010 A75-11281** 05 p0010 A75-11284** 05 p0010 A75-11284** 05 p0010 A75-11284** 05 p0010 A75-11284** 06 p0055 A75-25005 # 06 p0047 A75-22508** 06 p0047 A75-22513 # 06 p0047 A75-22513** 06 p0047 A75-22513**
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AEC-SNS-3063-3-VOL-1 AECL-4840 APAPL-TE-74-5 AFAPL-TR-74-74-7 AFAPL-TR-74-47-PT-3 APAPL-TR-74-89-1 AFAPL-TR-74-89-2 AFAPL-TR-74-89-3 AFOSR-74-1503TR AIAA PAPER 74-1066 AIAA PAPER 74-1069 AIAA PAPER 74-1071 AIAA PAPER 74-1071 AIAA PAPER 74-1072 AIAA PAPER 74-1074 AIAA PAPER 74-1084 AIAA PAPER 74-1085 AIAA PAPER 74-1084 AIAA PAPER 74-1085 AIAA PAPER 75-304 AIAA PAPER 75-304 AIAA PAPER 75-315 AIAA PAPER 75-316 AIAA PAPER 75-316 AIAA PAPER 75-319 AIAA PAPER 75-319	06 p0065 N75-15742 # 06 p0106 N75-21099 # 05 p0027 N75-11226 # 05 p0037 N75-14274 # 07 p0155 N75-26502 # 06 p0091 N75-19339 # 06 p0091 N75-19340 # 06 p0091 N75-19340 # 07 p0001 N75-19340 # 08 p0001 N75-10262 # 08 p0001 N75-10263 # 08 p0001 N75-10263 # 09 p0001 N75-10264 # 05 p0001 N75-10263 # 05 p0001 N75-11281** 05 p0010 N75-11281** 05 p0010 N75-11284** 05 p0010 N75-11284** 05 p0010 N75-11284** 05 p0010 N75-11284** 06 p0010 N75-11284** 07 p0010 N75-11284** 08 p0010 N75-11284** 09 p0010 N75-11284** 09 p0010 N75-11284** 09 p0010 N75-122513 # 06 p0049 N75-22513 # 06 p0047 N75-22513 * 06 p0047 N75-22513** 06 p0047 N75-22513**
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AEC-SNS-3063-3-VOL-1 AECL-4840 APAPL-TE-74-5 AFAPL-TR-74-74-7 AFAPL-TR-74-47-PT-3 APAPL-TR-74-89-1 AFAPL-TR-74-89-2 AFAPL-TR-74-89-3 AFOSR-74-1503TR AIAA PAPER 74-1066 AIAA PAPER 74-1069 AIAA PAPER 74-1071 AIAA PAPER 74-1071 AIAA PAPER 74-1072 AIAA PAPER 74-1074 AIAA PAPER 74-1084 AIAA PAPER 74-1085 AIAA PAPER 74-1084 AIAA PAPER 74-1085 AIAA PAPER 75-304 AIAA PAPER 75-304 AIAA PAPER 75-315 AIAA PAPER 75-316 AIAA PAPER 75-316 AIAA PAPER 75-319 AIAA PAPER 75-319	06 p0065 N75-15742 # 06 p0106 N75-21099 # 05 p0027 N75-11226 # 05 p0037 N75-14274 # 07 p0155 N75-26502 # 06 p0091 N75-19339 # 06 p0091 N75-19340 # 06 p0091 N75-19341 # 05 p0002 N75-12807 # 05 p0001 A75-10262 # 05 p0001 A75-10263 # 05 p0001 A75-10264 # 05 p0001 A75-11281** 05 p0010 A75-11281** 05 p0010 A75-11284** 05 p0010 A75-11284** 05 p0010 A75-11284** 05 p0010 A75-11284** 06 p0055 A75-25005 # 06 p0047 A75-22513 # 06 p0047 A75-22513 * 06 p0047 A75-22513 * 06 p0047 A75-22513** 06 p0055 A75-25013** 06 p0055 A75-25013** 06 p0055 A75-22513**

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	06 p0064 A75-29116 #	ASHE PAPER 74-WA/HT-17 05 p0017 A75-16863 #
	. 06 p0062 A75-28594 #	ASME PAPER 74-WA/HT-18 05 p0017 A75-16864 #
	. 06 p0064 A75-29117 # . 06 p0062 A75-28595 #	ASHE PAPER 74-WA/HT-20 05 p0017 A75-16865 #
	06 p0062 A75-28596 #	ASHE PAPER 74-WA/HT-22 05 p0018 A75-16867 # ASHE PAPER 74-WA/HT-61 05 p0018 A75-16869 #
	06 p0062 A75-28597*#	ASHE PAPER 74-WA/PWR-1 08 p0166 A75-39349 #
AIAA PAPER 75-632	. 06 p0062 A75-28598 #	ASME PAPER 74-WA/PWR-5 05 p0018 A75-16879 #
	06 p0063 A75-28599 # 06 p0063 A75-28600 #	ASHE PAPER 74-WA/PWR-6 05 p0018 A75-16880 # ASHE PAPER 74-WA/PWR-7 05 p0018 A75-16881 #
	06 p0064 A75-29118 #	ASHE PAPER 74-WA/PWR-7 05 p0018 A75-16881 # ASHE PAPER 74-WA/PWR-10 05 p0018 A75-16882 #
AIAA PAPER 75-641	06 p0063 A75-28601*#	ASME PAPER 74-WA/PWR-11 05 p0018 A75-16883 #
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	06 p0063 A75-28603 # 06 p0063 A75-28604 #	ASHE PAPER 74-WA/SOL-2 05 p0018 A75-16885 # ASHE PAPER 74-WA/SOL-3 05 p0019 A75-16886 #
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AIAA PAPER 75-656	07 p0114 A75-32914*#	ASHE PAPER 74-WA/SOL-6 05 p0019 A75-16889 #
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	07 p0114 A75-32916 # 07 p0114 A75-32917*#	ASHE PAPER 74-WA/SOL-8 05 p0019 A75-16891 # ASHE PAPER 75-GT-50 07 p0116 A75-34607 #
	07 p0114 A75-32918 #	ASME PAPER 75-GT-67 07 p0116 A75-34620 #
AIAA PAPER 75-661	07 p0114 A75~32919*#	ASHE PAPER 75-HT-FFF 08 p0173 A75-43881 #
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	07 p0113 A75-32870*# 07 p0113 A75-32872*#	ASHE PAPER 75-HT-54 08 p0196 A75-47526 # ASHE PAPER 75-HT-57 08 p0196 A75-47527 #
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AIAA PAPER 75-739	07 p0113 A75-32861 #	ATA-EC-75-1 07 p0156 N75-26513 #
AIAA PAPER 75-740	07 p0115 A75-33758 # 07 p0113 A75-32862*#	P-160105
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AIAA PAPER 75-743	07 p0113 A75-32852 #	BECHTEL-10900-74-43-I 07 p0142 N75-24128 #
AIAA PAPER 75-923	08 p0165 A75-38868 #	BECHTEL-10900-74-43-I-APP 07 p0145 #75-24155 #
	07 p0121 175-37005 #	DTP-70-01 A7 m0150 N75-27557#4
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AIAA PAPER 75-1107	08 p0171 A75-41669*#	·
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AIAA PAPER 75-1239	08 p0182 A75-45651 #	BLL-CE-TRANS-6500- (9022.09) 06 p0083 N75-17833
AIAA PAPER 75-1246	08 p0182 A75-45656*#	BLL-CE-TRANS-6524-(9022.09) 07 p0157 N75-26528
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AICHE PAPER 16	08 p0 196 x/5-4/512 #	BLL-M-23413-(5828.4F) 08 p0199 N75-28516 BLL-M-23508-(5828.4F) 06 p0074 N75-16969
ALA-EMB-X996-149R-01	06 p0088 N75~18736 #	BLL-H-23516-(5828.4F) 06 p0074 N75-16968
ALA-EMB-X996-149R-03		DIT-03-MD3-VC-000 (6406 3)
ALA-EMB-X996-149R-04	06 pu085 N/5-18442 #	BLL-OA-TRANS-949- (6196.3) 07 p0153 N75-26492 BLL-OA-TRANS-1250- (6196.3) 06 p0074 N75-16712
ALRC-9280-74-11-10	07 p0136 N75-22918 #	522 on 1442 too (0.5005) tool to poor (4.5005)
	06 0000 000 47056 4	BLL-RTS-9309 07 p0158 N75-27511
ABS-1177	06 p0079 N75-17456 #	BLL-TRANS-2943-(9022.81) 06 p0074 N75-16967
ANCR-1155	06 p0076 N75-16985 #	Dan Innus 2343 (3022101) 00 p0074 h7,3 1030.7
1	•	BM-IC-8595 05 p0042 N75-15203 #
ANL-8058	06 p0076 N75-16990 #	BM-IC-8638
ABL-0004	06 p00/6 B/3-10964 #	BM-IC-8647
ANL/ES-CEN-F062	06 p0072 N75-16151 #	BM-IC-8651 05 p0040 N75-15172 #
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AP-42-SUPPL-3	06 p00/3 8/5-16152 #	BM-IC-8655
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APTIC-75097	08 p0204 N75-29597 #	BM-OFR-60-74 06 p0090 N75-18762 #
AR-1		BH-RI-7918 07 p0147 H75-24852 #
AR-2	07 pu 146 1175-24191 #	BM-RI-7921 05 p0034 H75-13399 # BM-RI-7952 06 p0089 N75-18759 #
ARI-74-0119	07 p0155 N75-26507 #	BE-RI-7965 07 p0139 875-24074 #
ARL-74-0127	07 p0159 N75-27559 #	BH=RI-7968 05 p0028 H75-11462 #
ASME PAPER 74-WA/ENER-2	05 20015 375-16830 #	BH-RI-7969 06 p0089 N75-18760 # BH-RI-7973 06 p0097 N75-20746 #
ASHE PAPER 74-WA/ENER-2		BH-RI-7978 06 p0090 H75-18761 #
ASHE PAPER 74-WA/ENER-4	05 p0016 A75-16836 #	BM-RI-7984 07 p0148 B75-25283 #
ASME PAPER 74-WA/ENER-5	05 p0016 A75-16837 #	BM-RI-7995
ASME PAPER 74-WA/ENER-6 ASME PAPER 74-WA/ENER-7	05 p0016 A75-16839 #	BM-RI-8011 08 p0201 N75-28548 #
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ASME PAPER 74-WA/ENER-11 ASME PAPER 74-WA/HT-12		BM-SP-1-74 05 p0040 N75-15171 # BM-SP-1-75 08 p0199 N75-28514 #
ASME PAPER 74-WA/HT-13		The second secon
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1	COMP-740805-3 05 p0036 M75-14268 #
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BH-TPR-82 05 p0025 E75-10599 #	COMP-740805-5 06 p0076 #75-16988 #
BE-TPR-84 08 p0211 B75-32603 #	COMP-740805-7 06 p0094 #75-19829 #
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BHL-18651 05 p0030 H75-12441 #	CONF-740814-ABSTS 07 p0129 #75-21801 #
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BNW-211B01284 06 p0065 N75-15768 #	CONTRIB-25 07 p0161 #75-27578 #
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BNWL-SA-5069	COO-3028-7 05 p0028 N75-11465 #
BHWL-SA-5070 06 p0103 N75-20874 #	
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BNWL-1845-2 07 p0152 H75-25695 #	
BNWL-1845-4 07 p0152 m75-25696 #	CRREL-257 06 p0104 R75-20881 #
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BR39686 06 p0073 N75-16572 #	CSSP-3705-8 08 p0213 N75-33507 #
BSR-4179 07 p0158 N75-27515**	CTAB-75-2
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CBNS-AB-1 06 p0107 N75-21155 #	
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CEL-CR-75.003-VOL-3	
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CRRL-TR-E-65-VOL-2 06 p0 104 N75-20880 #	DOC-74SD4219-VOL-2 06 p0069 N75-16102 #
	DOC-74SD4219-VOL-3-BK-1 05 p0042 H75-15191 #
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COM-75-10137 07 p0147 h75-25200 #	DOC-74SD4226-VOL-2 06 p0104 N75-20880 #
COH-75-10276/4 07 p0150 N75-25321 #	DAR MEG ARM TH 40
COM-75-10289/7 07 p0155 H75-26509 #	DOT-TSC-OST-74-12 07 p0130 N75-21817 #
COM-75-10304/4	DOT-TSC-OST-74-39-1 07 p0132 N75-22478 #
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COE-75-10466/1	DOT-TSC-OST-74-40-1 07 p0132 N75-22481 # DOT-TSC-OST-74-40-2 07 p0132 N75-22482 #
COM-75-10500/7	
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COMP-740407-4	D180-18768-1
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E-8365 07 p0141 N75-24116*#	FEA/RI-1665 06 p0087 N75-18730 #
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E-8380 07 p0154 N75-26500*#	FEA/EI-1670 06 p0069 H75-16099 #
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E-8403	PEA/EI-50034 06 p0093 H75-19814 #
E-8472 08 p0211 N75-32595*#	PEA/EI-50068 08 p0204 B75-29953 #
E-8475	FEA/PD-225-D 07 p0161 H75-27577 #
E-8478 08 p0210 N75-32592*#	PEA/PD-226-D 07 p0152 H75-25331 #
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PCOM-60-0063-P 06 m0090 P75-10036 4	PHWA-RD-75-6 07 p0162 N75-27581 #
ECOM-69-0063-F	Files ND-73-0
ECOM-73-0138-F	
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ECON-0282-73-P	PSTC-HT-23-147-74 07 p0131 N75-22114 #
ECON-4249	FSTC-HT-23-0121-75 07 p0149 N75-25307 #
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EO-SP-74026 07 p0144 N75-24142 #	
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EPA-SW-530-88C : 07 p0143 N75-24135 #	FSTC-HT-23-1592-73 06 p0082 H75-17819 #
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EPA-450/1-75-001 08 p0204 N75-29597 #	FSTC-HT-23-1824-73 05 p0025 N75-10598 #
EPA-450/2-74-005 06 p0090 N75-18784 #	FSTC-HT-23-2518-72 06 p0089 N75-18749 #
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EPA-450/2-74-021-B 06 p0091 N75-18797 #	
EPA-450/3-73-006-C-VOL-3 07 p0162 N75-27612 #	PTD-HC-23-1567-74 07 p0135 N75-22911 #
PPA-450/3-74-032-A 05 p0025 N75-10601 #	FTD-HC-23-1722-74 07 p0134 N75-22783 #
EPA-450/3-74-055 07 p0151 N75-25326 #	
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EPA-650/2-74-009-B 06 p0095 N75-19879 #	
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IAF PAPER 75-009	08 DU 18	3 A/5-45819 I			
IAF PAPER 75-027			MEA/REIS-7502	08 p0205	N75-30944 #
IAF PAPER 75-027		3 175-45822 #	HEA/REIS-7502	08 p0206	N75-30946 #
	08 p0 18	3 175-45822 #	MEA/REIS/WP-7401	08 p0206	N75-30946 #
ICBC-5	08 p0 18	3 175-45822 #	MEA/REIS/WP-7401	08 p0206 08 p0205	N75-30946 # N75-30945 #
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HSP/RABN/SE/GI-34872/PR-74-4
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MSP/RANN/SE/GI-34872/TR-73-5
                                                      ORNI-TR-2827 ............ 06 p0086 H75-18724 #
MSP/RANN/SE/GI-34975/PR-74-3
                              07 p0135 N75-22916 #
NSP/RANN/SE/GI-34979/PR-74-2
                          ... 06 p0077 H75-17003 #
.. 07 p0150 H75-25318 #
.. 07 p0150 H75-25319 #
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MSF/RANN/SE/GI-34979/TR-13-17
MSP/RANN/SE/GI-34979/TR-73/15 ..
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MSP/RANN/SE/GI~34979/TR-74-3
                              07 p0130 N75-21821 #
NSP/RANN/SE/GI-34979/TR-74/1
HSP/RANN/SE/GI-34979/TR-74/4
                              07 p0144 N75-24147 #
07 p0143 N75-24134 #
                                                     OWRT-W-180 (4258) (1) ...... 07 p0157 H75-26550 #
                              08 p0213 N75-33502 #
MSF/RANN/SE/GI-34979/TR/75/2
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                           ...
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NSP/RANN/SE/GI-34979/TR/75/3
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NSP/RANN/SE/GI-36731/PR-74-3
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                              07 p0143 N75-24137
                          ...
NSP/RANN/SE/GI-37815/PR-74-1
                              05 p0038 N75-14283
                                                     PAPER-C74-500-5 ................ 06 p0086 B75-18723 #
                           ...
NSP/RANN/SE/GI-37815/FR-74-2
                              06 p0071 N75-16118
NSP/RANN/SE/GI~38103/PR-73-4
                              05 p0038 H75-14282 #
                                                     PB-227476/9
                                                                ..... 05 p0042 N75-15203 #
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MSP/RANN/SE/GI-38103/FR-74-1
                                                     PB-233263/3
                           ...
                                                                NSF/RANN/SE/GI-38981/PR-74-3
                              06 p0105 N75-20890
                                                     PB-233956/2
                          ...
MSF/RANN/SE/GI-39114/PR-74-3
                              05 p0038 N75-14284
                                                     PB-234018/0
                                                                ..... 05 p0040 N75-15173
                          ...
HSF/RANN/SE/GI-39114/PR-74-4
NSF/RANN/SE/GI-39117/PR-74-2
HSF/RANN/SE/GI-39323/FR-74-2
                              06 p0082 #75-17821 #
                                                     PB-234036/2
                                                                ..... 05 p0034 N75-13396
                                                     PB-234042/0
                                                                05 p0041 N75-15183
                              07 p0136 N75-22928
                                                     PB-234050/3
                          ...
NSP/RANN/SE/GI~39456/PR-73-4
                              06 p0088 N75-18742 4
                                                     PB-234159/2
                          ...
NSF/RANN/SE/GI~39457/PR-74-3
NSF/RANN/SE/GI~39539/PR-74-2
NSF/RANN/SE/GI~40457/PR-74-2
                                                               07 p0150 N75-25315 #
                                                     PB-234160/0
                              06 p0071 N75-16117 #
                                                     PB-234185/7
                          ...
                              06 p0082 N75-17823
06 p0083 N75-17830
                                                     PB-234188/1
                          ...
NSP/RANN/SE/GI~41003/PR-74-2
                                                     PB-234202/0
                          . . .
                                 p0130 N75-21822 #
MSF/RANN/SE/GI-41003/PR-74-3
                              07
                                                     PB-234203/8
                                                                ..... 05 p0025 N75-10604
MSF/RANM/SE/GI-41019/PR-74-2 ... 06 p0071 M75-16114
MSF/RANM/SE/GI-41305/PR-74-2 ... 05 p0037 N75-14280
MSF/RANM/SE/GI-41894/PR-74-1 ... 06 p0105 N75-20886
                                                                05 p0034 N75-13400
05 p0040 N75-15176
                                                     PB-234294/7
                                                     PB-234460/4
NSP/RANH/SE/GI-41894/PR-74-1 ... 06 p0105 N75-20886
HSP/RANH/SE/GI-41894/PR-74-2 ... 06 p0072 N75-16120
                                                     PB-234490/1
                                                                ..... 05 p0040 N75-15174
                                                                PR-234536/1
MSF/RANN/SE/GI-41895/PR-74-3 ... 06 p0072 M75-76126 MSF/RANN/SE/GI-41895/PR-74-12 ... 06 p0071 M75-16116 MSF/RANN/SE/GI-43098 ....... 06 p0105 M75-20885
                                                     PB-234565/0
                                                     PB-234682/3
                                                                p0040 N75-15172
                                                     PB-234733/4
                                                                PB-234860/5
                                                                                   06
                                                                                     p0069 N75-16097*#
                                                                                     p0069 N75-16098*#
                                                     PB-234861/3
                                                                PB-235115/3
                                                                                     p0040 N75-15177 #
PB-235254/0
                                                                ..... 06 p0070 N75-16105
                                                     PB-235348/0
                                                                p0040 N75-15179
                                                     PB-235349/8
                                                                ..... 05 p0041 N75-15184 #
                                                     PB-235422/3
                                                                ..... 06 p0070 N75-16107
BVO-148 ..... 06 p0094 B75-19833 #
                                                     PB-235423/1
                                                                ..... 05 p0042 N75-15190
HWAG-RESEARCH-CONTRIB-245 ..... 08 p0214 N75-33931 #
                                                     PB-235424/9
                                                                ...... 06 p0070 N75-16103 #
                                                     PB-235426/4
                                                                N75-11464 ...... 08 p0211 N75-32603 #
                                                     PB-235427/2
                                                     PB-235428/0
                                                                ..... 05 p0042 N75-15193
                                                               .....05 p0042 N75-15194 #
OA-TRANS-938-PT-1 ..... 06 p0074 N75-16970 #
                                                     PB-235429/8
OA-TRANS-939 ..... 06 p0078 N75-17184 #
                                                     PB-235431/4
                                                               ..... 06 p0069 N75-16102
                                                     PB-235432/2
OCD-PS-66-100
             ..... 07 p0144 H75-24143 #
                                                     PB-235433/0
                                                               ----- 05 p0042 N75-15191
                                                     PB-235434/8
PB-235468/6
                                                               ..... 06 p0088 N75-18743 #
OCB-53-INT-10-VOL-4-PT-2 ..... 06 p0095 N75-19839
OCB-53-INT-11-VOL-4-PT-3 ..... 06 p0095 N75-19840
OCB-53-INT-11-VOL-4-PT-5 ..... 06 p0095 N75-19840
                                                                ..... 05 p0038 N75-14284
                                                     PB-235469/4
                                                     PB-235474/4
                                                               ...... 05 p0038 N75-14282
                                                     PB-235475/1
                                                                OCR-53-INT-13-VOL-4-PT-5 06 p0095 N75-19842 #
OCR-61-INT-9 07 p0130 N75-21812 #
OCR-73-INT-2 05 p0040 N75-15173 #
OCR-74-INT-1 05 p0034 N75-13396 #
OCR-74-INT-2 05 p0036 N75-14273 #
OCR-79-INT-1 06 p0072 N75-16125 #
OCR-80-P 07 p0138 N75-23740 #
                                                     PB-235481/9
                                                     PB-235483/5
                                                               ..... 06 p0069 N75-16095
                                                     PB-235487/6
                                                                ..... 06 p0070 N75-16104
                                                     PB-235503/0
                                                                ..... 06 p0070 N75-16106 #
                                                               ..... 05 p0041 B75-15187
                                                     PB-235581/6
                                                     PB-235582/4
PB-235583/2
                                                                ..... 05 p0041 N75-15189
                                                     PB-235591/5
PB-235736/6
                                                               ..... 06 p0065 N75-15772
..... 06 p0073 N75-16152
                                                               ..... 06 p0066 N75-16071
                                                     PB-235767/1
PB-235780/4
                                                               ..... 06 p0072 N75-16125
                                                               06 p0068 875-16093 8
                                                     PB-235817/4
                                                     PB-235840/6
                                                     PB-235898/4
                                                                ..... 06 p0065 N75-15669
OCR-94-INT-1 ..... 06
                                p0083 N75-17828
                                                     PB-235899/2
                                                                                   06
                                                                                     p0065 N75-15668
06 p0068 N75-16094 #
                                                     PB-235983/4
                                                     PB-236008/9
                                                               PB-236016/2
                                                     PB-236017/0
OCR-102-VOL-2 ..... 06 p0078 N75-17007 #
                                                     PB-236039/4
                                                                ..... 05 p0037 N75-14277
PB-236068/3
                                                     PB-236142/6
OCR-108-INT-1 ..... 07
                                p0127 N75-21786 #
                                                     PB-236144/2
                                                               ..... 06 p0070 H75-16110
                                                               ..... 05 p0037 875-14279
..... 05 p0037 875-14280
                                                     PB-236156/6
PB-236159/0
                                                               ..... 06 p0070 N75-16109
                                                     PB-236162/4
                                                     PB-236163/2
                                                               ..... 06 p0072 E75-16121
                                                     PB-236164/0
                                                               ...... 06 p0072 N75-16122
                                                     PB-236180/6
                                                               ..... 06 p0072 N75-16120
PB-236181/4
                                                               ..... 05 p0037 H75-14278
                                                     PB-236189/7
                                                               ...... 06 p0072 N75-16119 #
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PB-236190/5		06 p0077	N75-17005 i	* †	PB-238189/5		07 p0129	N75-21810 #
PB-236193/9		06 p0071	N75-16115 (*	PB-238197/8		07 p0130	¥75-21819 #
PB-236196/2				# 1	PB-238285/1		06 p0105	N75-20884 #
PB-236208/5					PB-238304/0		07 n0145	N75-24179 #
PB-236247/3				. 1	PB-238322/2			
		05 P007	N75-10114 (: I				
PB-236266/3	• • • • • • • • • • • • • • • • • • • •			• 1	PB-238360/2		06 pu 105	N/5-20889 #
PB-236305/9				*	PB-238417/0			
PB-236322/4		06 p0071	N75-16111 :	* !	PB-238505/2		06 p0105	N75-20890 #
PB-236346/3		06 p0092	N75-19599	# I	PB-238506/0		07 p0143	N75-24136 #
PB-236351/3				# Ì	PB-238507/8			
PB-236368/7				. I	PB-238509/4		07 50130	N75-21822 #
				: 1		***************************************	07 20130	175-21022 W
PB-236412/3	• • • • • • • • • • • • • • • • • • • •			• 1	PB-238522/7		07 po 130	8/5-21812 #
PB-236422/2	•••			•	PB-238529/2	••••••	07 p0142	N75-24127 #
PB-236498/2		06 p006	N75-15769 i	*	PB-238532/6		07 p0134	H75-22897 #
PB-236522/9		06 p0065	N75-15768	#	PB-238533/4		07 p0143	N75-24132 #
PB-236581/5		06 p0077	N75-17004	#	PB-238534/2		07 b0135	N75-22916 #
PB-236582/3				ı ì	PB-238535/9	•••••	07 50145	W75-24152 #
				I			07 -0143	775 24132 ¥
PB-236583/1	• • • • • • • • • • • • • • • • • • • •	00 P0000	1073-10730 t	:	PB-238537/5	••••	07 pv 143	N/3-24136 #
PB-236585/6	• • • • • • • • • • • • • • • • • • • •			•	PB-238539/1	.,		
PB-23658 7/ 2	• • • • • • • • • • • • • • • • • • • •			*	PB-238545/8			
PB-236588/0		06 p0088	3 N75-18743 :	*	PB-238570/6		07 p0130	N75-21816 #
PB-236608/6		06 p0084	N75-17848	.	PB-238571/4		07 p0130	N75-21821 #
PB-236631/8				.	PB-238572/2	***************************************		
PB-236632/6				i 1	PB-238578/9		07 -0144	N75-24151 4
				I			07 po 144	875-24131 V
PB-236633/4				• 1	PB-238582/1	•••••		
PB-236669/8				*	PB-238595/3			
PB-236683/9		06 p0078	N75-17006	*	PB-238642/3		07 p0135	N75-22915 *
PB-236712/6		06 p0086	N75-18718 ∜	#	PB-238646/4		07 p0144	N75-24147 #
PB-236714/2		06 p0079	N75-17456	* 1	PB-238658/9		07 p0143	N75-24133 #
PB-236726/6		06 00066	N75-16072	ا د	PB-238659/7			
PB-236755/5	•••••			<u>.</u> I	PB-238666/2			
				:			07 -0172	N75-24131 V
PB-236767/8	•••••			•	PB-238671/2	•••••		
PB-236900/7	• • • • • • • • • • • • • • • • • • • •			•	PB-238677/9			
PB-236971/8				*	PB-238678/7			
PB-236972/6		06 p0088	N75-18740 :	#	PB-238679/5		07 p0132	N75-22480 #
PB-236974/2		06 p0083	N75-17825	*	PB-238683/7		07 p0136	N75-22928 #
PB-236997/3				انت	PB-238693/6	***************************************		
PB-237005/4	•••••			<u>.</u>	PB-238694/4			
PB-237006/2		706 P0000	N75-17020	<u>.</u>			07 P0132	N75-22402 W
				:	PB-238695/1	•••••		
PB-237028/6	• • • • • • • • • • • • • • • • • • • •			• (PB-238696/9	•••••	07 p0133	N75-22484 #
PB-237042/7				*	PB-238749/6			
PB-237045/0		06 p0082	? N75-17822 ÷	#	PB-238765/2		07 p0136	N75-22925 #
PB-237113/6		06 p009	N75-19879	#. J	PB-238771/0		07 p0137	N75-23391 #
PB-237116/9				* i	PB-238783/5		06 00106	N75-21028 #
PB-237142/5		06 5008	N75-18730	انة	PB-238791/8		07 50131	N75-21923 #
	•••••	06 5000	N75-10750	:			07 -0131	N75-22400 #
PB-237151/6				: !	PB-238877/5	•••••		
PB-237209/2	• • • • • • • • • • • • • • • • • • • •			• 1	PB-238878/3	••••		
PB-237215/9	• • • • • • • • • • • • • • • • • • • •			•	PB-238879/1			
PB-237216/7		07 p0129	N75-21803 (*	PB-238947/6			
PB-237316/5		06 p0083	N75-17827 #		PB-238964/1		07 p0134	N75-22898 #
PB-237353/8				* 1	PB-238994/8	***************************************	07 p0142	N75-24130 #
PB-237493/2				•	PB-239075/5	•••••		
PB-237605/1	***************************************			الق	PB-239086/2		07 50136	N75-22918 -#
PB-237625/9				: 1			07 p0 (42	#75-24120 #
PB-237661/4				•	PB-239100/1	••••	07 p0145	N/5-24155 #
PB-237670/5				•		· · · · · · · · · · · · · · · · · · ·		
PB-237694/5		06 p0096	N75-19880 A	• [PB-239164/7	•••••	.07 p0156	N75-26513 #
PB-237695/2		06 p0091	N75-18788 (₽ [PB-239185/2		07 p0136	N75-22930 #
PB-237696/0					PB-239189/4		07 p0136	N75-22926 #
PB-237720/8	***************************************			. 1	PB-239221/5		07 50186	N75-24198 #
PB-237763/8				. 1	PB-239236/3		07 50143	175-24130 #
				. 1		*****************	07 -0151	W75-05307 A
PB-237764/6	•••••			: !	PB-239261/1	•••••	0/ pU 151	m/3-2332/ #
PB-237765/3	•••••	06 P0095	N/3-19841 1	• 1	PB-239270/2	••••		
PB-237766/1	• • • • • • • • • • • • • • • • • • • •	U6 p0095	M75-19842 4		PB-239272/8			
PB-237815/6	***************************************	06 p0085	N75-18713 (#]	PB-239275/1			
PB-237831/3	***************************************	06 p0090	N75-18762 (# !	PB-239277/7			
PB-237843/8	••••••	06 00088	N75-18738	# Î	PB-239282/7			
PB-237845/3		06 5008	N75-18732	a l	PB-239290/0			
PB-237848/7								
	••••				PB-239291/8	•••••		
PB-237849/5	***************				PB-239292/6	****		
PB-237851/1	• • • • • • • • • • • • • • • • • • • •	06 p0093	N75-19813 4	• (PB-239302/3	••••	07 p0151	N75-25323 ♥
PB-237894/1		06 p0089	N75-18759 #	*	PB-239338/7		07 p0155	N75-26504 #
PB-237936/0	• • • • • • • • • • • • • • • • • • • •			#	PB-239343/7			
PB-237937/8	•••••			.	PB-239355/1	***************************************	07 p0150	N75-25320 #
PB-238002/0	•••••			• 1	PB-239356/9		07 00139	N75-23780 #
PB-238003/8	••••••				PB-239369/2			
PB-238005/3				اية				
	• • • • • • • • • • • • • • • • • • • •	06 P0083	HIJ=1/023 N75=24444	.	PB-239371/8	••••	07 PU 150	#75_25310 #
PB-238041/8	*******	06 pu 107	#/3~Z1160 1	: 1	PB-239374/2		U/ p0150	m/3-2531/ #
PB-238064/0				•	PB-239383/3	•••••		
PB-238066/5	• • • • • • • • • • • • • • • • • • • •	06 p0089	N75-18757 (•	PB-239392/4	***************************************	07 p0143	N75-24135 #
PB-238068/1	• • • • • • • • • • • • • • • • • • • •	06 p0095	N75-19843 #	•	PB-239394/0	*******	07 p0157	N75-26522 #
PB-238069/9	• • • • • • • • • • • • • • • • • • • •			• 1	PB-239395/7	***************************************		
PB-238073/1	•••••			.	PB-239397/3	***************************************		
PB-238075/6	******************				PB-239408/8	••••••••		
PB-238082/2	***************************************				PB-239419/5	••••		
PB-238103/6	• • • • • • • • • • • • • • • • • • • •				PB-239465/8	•••••		
PB-238109/3	•••••				PB-239514/3			
PB-238124/2								
PB-238188/7					PB-239516/8			
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PB-239579/6
                                                       PB-241126/2
PB-239580/4
                                                       PB-241141/1
PB-239581/2
                                                       PB-241323/5
PB-239582/0
                                                       PB-241346/6
                                                                   ..... 08 p0208 N75-31581
                                                                   PB-239583/8
                                                       PB-241351/6
                                                       PB-241357/3
PB-239607/5
                                                                   PB-239674/5
                                                       PB-241462/1
PB-239675/2
                                                       PB-241479/5
PB-239710/7
                                                       PB-241620/4
PB-239718/0
PB-239756/0
                                                       PB-241672/5
                                                       PB-241772/3
                                                                  ...... 08 p0210 N75-32471
                                                       PB-241774/9
PB-239757/8 07 p0150 N75-25313 PB-239758/6 07 p0156 N75-26520 PB-239759/4 08 p0200 N75-28527 PB-239760/2 07 p0156 N75-26519 PB-239761/0 07 p0156 N75-26519 PB-239762/8 07 p0156 N75-26516 PB-239763/6 07 p0156 N75-26516 PB-239763/6 07 p0156 N75-26518 PB-239764/4 07 p0156 N75-26518 PB-239765 07 p0156 N75-276517 PB-239765 07 p0162 N75-276517 PB-239765 07 p0157 N75-26526 PB-239768/5 07 p0157 N75-26526 PB-239768/5 07 p0157 N75-26526 PB-239768/5 07 p0157 N75-26526 PB-239768/5 07 p0151 N75-26526 PB-239941/8 07 p0154 N75-26501
PB-239757/8
                                                                  PB-241776/4
                                                       PB-241777/2
PB-241792/1
                                                       PB-241821/8
                                                       PB-241843/2
                                                       PB-241892/9
PB-241926/5
                                                       PB-241990/1
                                                       PB-242142/8
                                                       PB-242151/9
                                                       PB-242164/2
                                                       PB-242166/7
                                                                   p0213 N75-33509
                                                       PB-242167/5
PB-242189/9
                                                       PB-242217/8
                                                                  PB-242569/2
                                                       PB-242774/8
                                                       PEL-237E ...... 07 p0135 N75-22909 #
POCR-82-INT-4 ...... 07 p0129 N75-21803 #
                                                           ..... 06 p0105 N75-20888
                                                       PUB-LAW-93-322 ...... 08 p0209 N75-31957
                                                       PUBL-165 ...... 08 p0206 N75-31285 #
                                                       QCR-54-INT-12-VOL-4-PT-4 ..... 06 p0095 N75-19841 #
QPR-1 ..... 05 p0038 N75-14283 #
                                                       QPR-1 ..... 07 p0130 N75-21816 #
                                                            ..... 07 p0150 N75-25317 #

      QPR-2
      06 p0071 N75-16118 #

      QPR-2
      06 p0097 N75-20580 #

      QPR-3
      05 p0038 N75-14284 #

PB-240564/5
           .....07 p0162 N75-27618 .....07 p0156 N75-26512
PB-240609/8
                                                       QPR-3 ..... 06 p0105 N75-20890
                                                            06 p0105 N75-20886 #
                                                       ..... 07 p0145 N75-24156
                                                       R-1404-ARPA ...... 07 p0162 N75-27901 #
                                                       RADC-TR-74-154 ........... 05 p0026 h75-10609 # 15
RAE-TR-73134 ..... 06 p0073 N75-16572 #
                                                             ..... 06 p0093 N75-19827 #

    REPT-1
    06 p0093 B75-19827 #

    REPT-2
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    REPT-749
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    REPT-4074-V0L-2
    06 p0091 B75-19340 #

    REPT-4074-V0L-3
    06 p0091 B75-19341 #

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08 p0201 N75-28551 #
08 p0199 N75-28514 #
08 p0200 N75-28543 #
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08 p0203 N75-29559 #
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           PB-241095/9
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                                                      PB-241097/5
PB-241098/3
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           ...... 08 p0204 N75-29952
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RT/PROT-(74) 10 ...... 06 p0068 H75-16091 #
                                                      R741EG418 ........... 06 p0073 N75-16637**
PB-241125/4 ..... 08 p0205 N75-30667
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S-REPT-93-980 07 p0142 H75-24124 #	TW-555
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SAE PAPER 740884 05 p0019 A75-16925	UCID-16528
SAE PAPER 740885 06 p0048 A75-22948	UCID-16591
SAE PAPER 750587 08 p0169 A75-40502*	UCID-16630-74-1 06 p0093 N75-19827 #
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SAND-74-0093 06 p0076 b75-16992 #	UCRL-51533-RBV-1 05 p0028 N75-11467 #
SAND-74-0113 07 p0129 N75-21802 #	UCRL-51557 05 p0043 H75-15462 #
SAND-74-0124	UCRL-51578
SAND-74-0146	UCRL-51685 07 p0127 N75-21781 # UCRL-51686 07 p0127 N75-21480 #
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