AEROSPACE MEDICINE AND BIOLOGY

A CONTINUING BIBLIOGRAPHY WITH INDEXES

(NASA-SP-7011(390)) AEROSPACE
MEDICINE AND BIOLOGY: A CONTINUING
BIBLIOGRAPHY WITH INDEXES
(SUPPLEMENT 390) (NASA) 53 p

N94-34602

Unclas

00/52 0015316



The NASA STI Program ... in Profile

Since its founding, NASA has been dedicated to the advancement of aeronautics and space science. The NASA Scientific and Technical Information (STI) Program plays a key part in helping NASA maintain this important role.

The NASA STI Program provides access to the NASA STI Database, the largest collection of aeronautical and space science STI in the world. The Program is also NASA's institutional mechanism for disseminating the results of its research and development activities.

Specialized services that help round out the Program's diverse offerings include creating custom thesauri, translating material to or from 34 foreign languages, building customized databases, organizing and publishing research results ... even providing videos.

For more information about the NASA STI Program, you can:

- Phone the NASA Access Help Desk at (301) 621-0390
- Fax your question to the NASA Access Help Desk at (301) 621-0134
- E-mail your question via the Internet to help@sti.nasa.gov
- Write to:

NASA Access Help Desk NASA Center for AeroSpace Information 800 Elkridge Landing Road Linthicum Heights, MD 21090-2934

AEROSPACE MEDICINE AND BIOLOGY

A CONTINUING BIBLIOGRAPHY WITH INDEXES

INTRODUCTION

This issue of *Aerospace Medicine and Biology* (NASA SP-7011) lists 102 reports, articles, and other documents recently announced in the NASA STI Database. The first issue of *Aerospace Medicine and Biology* was published in July 1964.

Accession numbers cited in this issue include:

Scientific and Technical Aerospace Reports (STAR) (N-10000 Series) Open Literature (A-10000 Series) N94-28827 — N94-31413 None in this issue

In its subject coverage, *Aerospace Medicine and Biology* concentrates on the biological, physiological, psychological, and environmental effects to which humans are subjected during and following simulated or actual flight in the Earth's atmosphere or in interplanetary space. References describing similar effects on biological organisms of lower order are also included. Such related topics as sanitary problems, pharmacology, toxicology, safety and survival, life support systems, exobiology, and personnel factors receive appropriate attention. Applied research receives the most emphasis, but references to fundamental studies and theoretical principles related to experimental development also qualify for inclusion.

Each entry in the publication consists of a standard bibliographic citation accompanied in most cases by an abstract. The listing of the entries is arranged by *STAR* categories 51 through 55, the Life Sciences division. The citations include the original accession numbers from the respective announcement journals.

Seven indexes—subject, personal author, corporate source, foreign technology, contract number, report number, and accession number—are included.

A cumulative index for 1994 will be published in early 1995.

Information on availability of documents listed, addresses of organizations, and CASI price schedules are located at the back of this issue.

TABLE OF CONTENTS

Category 51	Life Sciences (General)	207
Includes	Aerospace Medicine physiological factors; biological effects of radiation; and effects of ssness on man and animals.	212
	Behavioral Sciences psychological factors; individual and group behavior; crew training and on; and psychiatric research.	219
• •	Man/System Technology and Life Support human engineering; biotechnology; and space suits and protective clothing.	222
Category 55 Includes	Space Biology exobiology; planetary biology; and extraterrestrial life.	N.A.
Subject Index .		A-1
Personal Author	r Index	B-1
Corporate Sour	ce Index	C-1
Foreign Techno	ology Index	D-1
Contract Numb	er Index	E-1
Report Number	Index	F-1
Accession Num	ber Index	G-1

TYPICAL REPORT CITATION AND ABSTRACT

NASA SPONSORED

ON MICROFICHE

ACCESSION NUMBER → N94-11045*# Pennsylvania State Univ., Hershey. Coll. of ← CORPORATE SOURCE

TITLE → EFFECTS OF CSF HORMONES AND IONIC COMPOSITION ON SALT/WATER METABOLISM Final Technical Report, 1 Mar. 1981 - 31 Dec. 1992

AUTHOR → WALTER B. SEVERS 31 Dec. 1992 32 p

← PUBLICATION DATE

CONTRACT NUMBER → (Contract NCC2-127)

REPORT NUMBERS → (NASA-CR-193232; NAS 1.26:193232) Avail: CASI HC A03/MF ← AVAILABILITY AND A01 PRICE CODE

The consequences of headward fluid shifts during manned spaceflight was studied. Such shifts were recognized early by both U.S. and Soviet scientists because of signs and symptoms referable to the head. Some of these include disturbed vision, puffiness in the face and periorbital areas, headache, vestibular dysfunction, and distended jugular veins. We posited that the fluid shift had an immediate effect on the brain and a long-term action requiring a neural interpretation of the flight environment. This would re-adjust both efferent neural as well as hormonal mechanisms to sustain cardiovascular and fluid/electrolyte balance consonent with survival in microgravity. Work along these lines is summanzed. A synopsis of some of the main research is presented. The following topics were studied: (1) angiotensin and vasopressin action in the central nervous system; (2) intracranial pressure control; (3) research on subcommissural organ; and (4) research on the eye.

Author (revised)

AEROSPACE MEDICINE AND BIOLOGY

A Continuing Bibliography (Suppl. 390)

July 1994

51 LIFE SCIENCES (GENERAL)

N94-28829 Louisiana State Univ., Baton Rouge.
EFFECTS OF PRESSURE ON MEMBRANE-ASSOCIATED
RECEPTORS AND EFFECTOR ELEMENTS Final Report, 1
Jun. - 30 Nov. 1993

JOSEPH F. SIEBENALLER 30 Nov. 1993 2 p Limited Reproducibility: More than 20% of this document may be affected by microfiche quality

(Contract N00014-89-J-1865)

entire functional complex.

(AD-A275813) Avail: CASI HC A01

To identify the effects of moderate hydrostatic pressure on receptor and effector elements involved in transmembrane signal transduction, we examined the A1 adenosine receptor - inhibitory G protein (G) - adenylylcyclase signal transduction complex. Our experiments were designed to identify and define at the molecular level pressure effects on system components in isolation and on the

N94-28853# Nihon Univ., Tokyo (Japan). Dept. of Hygiene. EFFECT OF CHRONIC CENTRIFUGATION ON IN VITRO FERTILIZATION AND EARLY DEVELOPMENT IN MICE OVA [MAUSU RANSHI NO JUSEI TO SHOKI HASSEI NI OYOBOSU JI FUKA NO EIKYO]

MASAO ITO, RURIKO MARU, TAKASHI MAEDA, ESTER SANADA, TAKAICHI MANO, SHINICHI HORIGOME, KENICHI IWASAKI, YUICHI KAMEYAMA, YOSHIRO ISHIJIMA, and KAZUYOSHI YAJIMA In Japan Society of Aerospace and Environmental Medicine, Japanese Journal of Aerospace and Environmental Medicine, Volume 30, No. 1 p 19-25 1 Mar. 1993 In JAPANESE See also A93-49179

Avail: CASI HC A02/MF A01

The effect of chronic centrifugation on in vitro fertilization and early development in mice ova was investigated. The results of the study on the effect of acceleration on fertilization and early development is discussed. The fertilization rate was lower for the ova receiving 0.6 to 1.2 G and those receiving 1.8 G and over. The mechanism for the impairment of fertilization, was apparently different between two ranges. The unfertilized ova that had been subjected to 0.6 to 1.2 G of acceleration ceased to grow mostly at Metaphase 2 and sperms penetration were prevented. In the ova receiving 1.8 G and over, sperms had penetrated the ovular cytoplasm and the nucleus had reached the Anaphase or Telophase. Polyspermy and other abnormalities were frequent while normally fertilized ova were limited in number. It was noted that centrifugation at 2 G or less had no effect on the in vitro growth of 2-cell ova into blastcysts. Cell number of embryos thus produced was significantly smaller compared to the control. In the 2-cell ova receiving 3.6 or 4.0 G, most of them do not grow into blastocysts and if they do, the cell number of these blastocysts is smaller than 60. This finding suggested a delay in embryo growth and a subsequent increase in Author (NASDA) embryo mortality.

N94-28884# Connecticut Univ., Farmington. Health Center. STUDIES ON BACTERIAL SPORE ULTRAVIOLET LIGHT RESISTANCE AND REGULATION OF THE ACTIVITY OF A

SPORE PROTEASE Final Report, 1 May 1990 - 31 Oct. 1993 PETER SETLOW 10 Dec. 1993 6 p

(Contract DAAL03-90-G-0110)

(AD-A275448; REPT-31522-LS; ARO-27956.17-LS) Avail: CASI HC A02/MF A01

Highlights of the most significant research finding in the last few years are: (1) alpha/beta-type SASP have been shown in vitro to be a novel group of non-specific, double-strand DNA binding proteins which slow DNA depurination, block hydroxyl-radical cleavage of the backbone, and block UV induced pyrimidine dimer formation, while promoting spore photoproduct formation; (2) the effects of alpha/beta-type SASP in vitro are also exerted in vivo as these proteins are important factors in spore heat and hydrogen peroxide resistance, and the major cause of spore UV resistance; (3) studies of the regulation and processing of the SASP specific protease have strongly suggested that the processing of the zymogen form of this enzyme during sporulation is an autocatalyzed event triggered by changes in the forespore (very likely dehydration) which will block attack of the active enzyme on SASP. In the first minutes of spore germination spore core rehydration then allows rapid SASP degradation.

N94-29081# Waseda Univ., Tokyo (Japan). School of Education. ESTIMATION OF THE NET PRODUCTION OF MOSS COMMUNITY AT LANGHOVDE, EAST ANTARCTICA [HIGASHI NANKYOKU RANGUHOBUDE NI OKERU SENRUI NO JUN SEISANRYO NO SUITEI]

YOSHIO INO In National Inst. of Polar Research, Antarctic Record, Volume 36, No. 1 p 49-59 30 Mar. 1992 Sponsored by National Inst. of Polar Research

Avail: CASI HC A03/MF A02

Field measurements of net photosynthesis and dark respiration (CO2 exchange) of moss colonies were carried out at Langhovde, East Antarctica, 17 Jan. 1988. Each colony growing at the Yukidori Valley, Langhovde was composed of Grimmia lawiana, Bryum pseudotriquetrum or the mixture of Ceratodon purpureus and B. pseudotriquetrum. Microclimatic data (photo-synthetic photon flux density and moss temperature) in the assimilation chamber were recorded at the same time. A simple model to estimate the net photosynthetic rate and dark respiration rate on the basis of the microclimatic data was developed on Kappen's model. Net primary production of these moss colonies was calculated with the microclimatic data recorded separately at the Yukidori Valley Jan. 1988 -Jan. 1989. The estimated net production rates of moss colonies growing in the upper reaches of the Yukidori Valley ranged from 8.8 to 11.3 mol CO2 m(exp -2)y(exp -1), or from 230 to 296 gdw m(exp-2)y(exp -1). Author (NASDA)

N94-29082# Aichi Fisheries Research Inst., Minato (Japan).
COPEPODS COLLECTED ALONG 33.5 DEG E LONGITUDE OF
THE ANTARCTIC OCEAN IN THE 1976 SUMMER [1976 NEN
KAKI, NANKYOKUKAI INDOYOKU NO TOKEI 33.5 DO SEN NI
SOTTE ERARETA KAIASHIRUI SHIRYO]

SATOSHI YAMADA, ATSUSHI TANIMURA, and TAKASHI MINODA In National Inst. of Polar Research, Antarctic Record, Volume 36, No. 1 p 60-64 30 Mar. 1992

Avail: CASI HC A01/MF A02

Zooplankton samplings were conducted at six stations along

33.5 deg E in the Indian sector of the Antarctic Ocean 25 Feb. - 2 Mar. 1976 by the 17th Japanese Antarctic Research Expedition. Vertical hauls from a depth of 200 m to the surface with a Norpac net (45 cm in diameter, 0.33 mm mesh openings) were performed. Copepoda occupied more than 85 percent of the total individual numbers of zooplankton at all stations. The species composition and abundance of copepods were investigated. A total of 18 species except for Oncaeidae were identified. Calanus propinguus, Calanoides acutus, Rhincalanus gigas, Ctenocalanus vanus, Scolecithricella glacialis, and Oithona similis were found commonly at almost all stations. Miclocalanus pygmaeus, Lucicutia sp., Haloptilus ocellatus, Haloptilus oxycephalus and Metridia gerlachei occurred south of 60 deg S and Calanus simillimus, Clausocalanus laticeps. Metridia lucens and Oithona frigida occurred north of 60 deg S. Euchaeta antarctica, Racovitzanus antarcticus and Heterorhabdus austrinus occurred sporadically and/or in small Author (NASDA) number.

: N94-29085# National Inst. of Polar Research, Tokyo (Japan).

JAPAN-CHINA COLLABORATION RESEARCH PROGRAM ON
TERRESTRIAL BIOLOGY AT GREAT WALL STATION IN KING
GEORGE ISLAND, IN THE SUMMER OF 1990/1991 [1990/1991
NEN KAKI, KINGU JOJITO CHOJO KICHI NI OKERU NICCHU
KYODO KANSOKU (DAN 3 NENJI)]

SHUJI OTANI and TAKAYUKI NAKATSUBO In its Antarctic Record, Volume 36, No. 1 p 109-115 30 Mar. 1992 In JAPANESE Avail: CASI HC A02/MF A02

The collaboration between Japanese and Chinese biologists started in the 1988/1989 season with a three-year program at Great Wall Station, King George Island. For the third year of the program (1990/1991), two Japanese botanists carried out the field survey on freshwater algae and bryophytes in the 7th Chinese National Antarctic Expedition (CHINARE-7). Taxonomic study of freshwater algae was carried out at the Fildes Peninsula. About 110 taxa were recognized in the samples collected from a variety of freshwater habitats. Distribution of snow algae was studied with reference to micro-habitat and snow properties as a cooperative study with a Chinese scientist. The microclimate and photosynthetic activities of moss colonies around Great Wall Station were studied. Vertical cross-sections of moss colonies were examined to study the structure and dynamics of moss colonies.

Author (NASDA)

N94-29156# Sveriges Lantbruksuniv., Uppsala. Dept. of Microbiology.

STABLE RNA SEQUENCES AS A TOOL FOR DNA PROBES AND PHYLOGENETIC STUDIES

J. MATTSSON 1993 175 p See also PB93-201895 (ISSN 0348-4041)

(PB94-135423; SLU-MIKRO-R-57-SE; ISBN-95-576-4755-0) Copyright Avail: CASI HC A08/MF A02

In the work, several different detection systems based on 16S rRNA sequences were studied. The rRNA sequences were also used to infer phylogenetic relationships. The catalytic RNA from RNase P was studied as a potential alternative to rRNA sequences. Species-specific rDNA probes for Mycoplasma agalactiae, Mycoplasma bovis, Mycoplasma hyopneumoniae and Renibacterium salmoninarum were designed. The different probes were specific and could be used to identify their respective targets in clinical samples. It was observed that unexpected cross-hybridization of a probe to a non-target organism may depend on the type of mismatch. M. agalactiae is the closest relative to M. bovis, as was concluded from phylogenetic analysis. Group-specific rDNA probes for the detection of mycoplasma contaminated cell cultures was developed and tested on a large number of samples.

N94-29189 Helsinki Univ. of Technology, Espoo (Finland). Dept. of Chemical Engineering.

PLANT-MICROBE INTERACTIONS: PLANT HORMONE PRODUCTION BY PHYLLOPLANE FUNGI

T. TUOMI, J. ILVESOKSA, and H. ROSENQVIST 23 Jun. 1993 16 p Limited Reproducibility: More than 20% of this document may be

affected by microfiche quality (PB94-135563; ISBN-951-22-1671-X) Avail: CASI HC A03

The molds Botrytis cinerea, Cladosporium cladosporioides and the yeast Aureobasidium pullulans, isolated from the leaves of three short-rotation Salix clones, were found to produce indole-3acetic acid (a growth promoter of plants). Abscisic acid (a growth inhibitor of plants) production was detected in B. cinerea. The contents of indole-3-acetic acid and abscisic acid in the leaves of the Salix clones and the amounts of fungal propagules in these leaves were also measured, in order to evaluate whether the amounts of plant growth regulators produced by the fungi would make a significant contribution to the hormonal quantities of the leaves. The content of abscisic acid, and to a lesser degree that of indole-3acetic acid, showed a positive correlation with the frequency of infection by the hormone producing organisms. The amounts of hormone producing fungi on leaves that bore visible colonies were. however, not sufficiently high to support the argument that neither the fungal production of abscisic nor indole-3-acetic acid would to a significant degree contribute to the hormonal contents of the leaves of the Salix clones. NTIS

N94-29190 Helsinki Univ. of Technology, Espoo (Finland). Dept. of Chemical Engineering.

PHYSIOLOGY AND MOLECULAR-GENETICS OF THERMUS AND BACILLUS

K. M. NORDSTROEM Apr. 1993 15 p See also PB93-226363 Limited Reproducibility: More than 20% of this document may be affected by microfiche quality

(PB94-135571; ISBN-951-22-1633-7) Avail: CASI HC A03

The use of the API 20 NE system for the identification of Thermus was evaluated and compared with results obtained for conventional microbiological identification tests. Five Thermus strains were studied, including T. thermophilus DSM 579, T. flavus DSM 674 and three wild strains originating from hot springs in Iceland. The results for the API 20 NE system were in accord with conventional tests with reference to nitrate reduction, beta-galactosidase production, and the absence of indole and urease production. Furthermore, acid was not produced from glucose. Thus the API 20 NE kit provides a convenient tool for the characterization of Thermus strains, although gelatinase and aesculin hydrolysis must be verified using conventional methodology.

N94-29401*# National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA.

LEG MUSCLE VOLUME DURING 30-DAY 6-DEGREE HEAD-DOWN BED REST WITH ISOTONIC AND ISOKINETIC EXERCISE TRAINING

J. E. GREENLEAF, P. L. LEE, S. ELLIS, R. H. SELZER, and D. A. ORTENDAHL Mar. 1994 11 p (Contract RTOP 199-18-12-07)

(NASA-TM-4580; A-94054; NAS 1.15:4580) Avail: CASI HC A03/ MF A01

Magnetic resonance imaging (MRI) was used to compare the effect of two modes of lower-extremity exercise training on the mass (volume) of posterior leg group (PLG) muscles (soleus, flexor hallucis longus, tibialis posterior, lateral and medial gastrocnemius, and flexor digitorum longus) on 19 men (ages 32-42 years) subjected to intense dynamic-isotonic (ITE, cycle ergometer, number of subjects (N) = 7), isokinetic (IKE, torque egrometer, N = 7), and no exercise (NOE, N = 5) training for 60 min/day during head-down bed rest (HDBR). Total volume of the PLG muscles decreased (p less than 0.05) similarly: ITE = 4.3 + / - SE 1.6%, IKE = 7.7 + / - 1.6%, and NOE = 6.3 + - 0.8%; combined volume (N = 19) loss was 6.1 + - 0.8%0.9%. Ranges of volume changes were 2.6% to -9.0% (ITE), -2.1% to -14.9% (IKE), and -3.4% to -8/1% (NOE). Correlation coefficients (r) of muscle volume versus thickness measured with ultrasonography were: ITE r + 0.79 (p less than 0.05), IKE r = 0.27 (not significant (NS)), and NOE r = 0.63 (NS). Leg-muscle volume and thickness were highly correlated (r = 0.79) when plasma volume was maintained during HDBR with ITE. Thus, neither intensive lower extremity ITE nor IKE training influence the normal non-exercised posterior leg muscle atrophy during HDBR. The relationship of muscle volume and thickness may depend on the mode of exercise training associated with the maintenance of plasma volume.

Author

N94-29519# National Inst. for Resources and Environment, Ibaraki (Japan). Biomass Div.

GROWTH OF HYDROCARBON-RICH MICROALGA BOTRYOCOCCUS BRAUNII IN SECONDARILY TREATED SEWAGE AND ITS CONSUMPTION OF NITRATE ION AND PHOSPHATE ION [GESUI SHORISUI NI OKERU BOTRYOCOCCUS BRAUNII NO ZOSHOKU TO CHISSO OYOBI RIN NO SHOHI NI TSUITE]

SHIGEKI SAWAYAMA, SEIICHI INOUE, TOMOAKI MINOWA, and YUTAKA DOTE In its Journal of NIRE, Vol. 2, No. 3 p 67-71 25 May 1993 In JAPANESE

Avail: CASI HC A01/MF A02

Secondarily Treated Sewage (STS) was used as the growing medium of the green micro-alga, B. (Botryococcus) braunii, which produces hydrocarbon as 50 percent of its dry weight. Algal growth in STS from domestic wastewater was good in a batch system, and hydrocarbon contents of the alga grown in two types of STS were sufficiently high at 53 and 40 percent compared with 58 percent for the Chu 13 medium. B. braunii consumed the nitrate ions in STS, thereby causing a reduction from 7.67 and 4.48 N mg/l to a level below detection (0.01 N mg/l). Phosphate ions were also consumed by B. braunii from 0.02 and 0.29 P mg/l to a level below detection (0.01 P mg/l). Using STS as the growth medium of B. braunii could facilitate the removal of nitrate and phosphate from STS by algal consumption. Author

N94-29648*# National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA.

PORTABLE LINEAR SLED (PLS) FOR BIOMEDICAL RESEARCH

WILL VALLOTTON (Sverdrup Technology, Inc., Moffett Field, CA.), DENNIS MATSUHIRO, TOM WYNN, and JOHN TEMPLE In its The 27th Aerospace Mechanisms Symposium p 315-331 May 1993 (Contract RTOP 199-16-12-17; RTOP 199-16-12-19; RTOP 199-90-63-20)

Avail: CASI HC A03/MF A03

The PLS is a portable linear motion generating device conceived by researchers at Ames Research Center's Vestibular Research Facility and designed by engineers at Ames for the study of motion sickness in space. It is an extremely smooth apparatus, powered by linear motors and suspended on air bearings which ride on precision ground ceramic ways.

Author

N94-29708# Ministry of Agriculture, Forestry, and Fisheries, Ibaraki (Japan). Analysis of Gear and Methods Section.

REPRODUCTION IN THE JAPANESE ANCHOVY (ENGRAULIS JAPONICA) AS RELATED TO POPULATION FLUCTUATION [KATAKUCHIIWASHI NO SEIJUKU/SANRAN TO SAISEISANRYOKU NO CHOSETSU NI KANSURU KENKYU]

YOSHINARI TSURUTA In its Bulletin of National Research Institute of Fisheries Engineering, No. 13 p 129-168 5 Mar. 1992 In JAPANESE

Avail: CASI HC A03/MF A02

Field surveys and laboratory experiments on the Japanese anchovy, Engraulis japonica, were conducted in order to identify mechanisms which promote stock size stability. Field surveys confirmed the relatively long spawning season, the short time interval between spawning episodes (interspawning interval), and the seasonal change in batch fecundity. In laboratory experiments, long photoperiod and water temperature played a leading role as a trigger of gonad maturation and spawning. A reduction in food resulted in the following: (1) a prolongation of interspawning interval; (2) a reduction in a batch fecundity; and (3) a change in egg size when the food ration was below the level required for body maintenance. The number of eggs spawned per female was reduced at

high density even when food for the individual was held constant. On the other hand, growth was better than in a low density tank. Seawater was removed from the high density tank and discharged into the low density tank. This reduced the number of eggs spawned per female in the low-density tank. However this did not apply for sea water from a low-density tank and also a high-density tank without mature fish. Therefore, some unknown organic substance may control gonad maturation.

Author (NASDA)

N94-29711# Hamamatsu Univ., Shizuoka (Japan).

SPACE MOVEMENT OF TRICHINELLA SPIRALIS UNDER MICROGRAVITY [SENMOCHU NO BISHO JURYOKU NI TAISURU YUEI HANNO]

AKIRA MURAKAMI, KENJIRO YOSHIMURA, and KEIICHI TAKAHASHI In Society of Medical Research for Space Station, The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight p 9-13 Mar. 1993 In JAPANESE

Avail: CASI HC A01/MF A01

Under microgravity, Trichinell speralis, including a Paramecium, increases pace of cytokinesis, probably because disappearance of space movement reaction against gravity decreases energy consumption. If this hypothesis is true, gravity may affect various phases of fundamental activity of this microorganism. On the other hand, it is known that a Paramecium moves in the opposite direction of gravity under 1 G. This negative gravitaxis may be associated with not only a physical mechanism based on gravity, but also some physiological mechanisms. The purpose of this study is to clarify the effect of gravity on Parameciums by analyzing space movement under microgravity. In previous studies, the microgravity effect on movement of Paramecium was examined during free falling. Despite short period, the findings revealed that not only gravity but also some other effects may participate in the special movement under microgravity. This study examined the movement for longer period of microgravity using parabolic flight, in which microgravity could be achieved after hypergravity conditions. As a result, the Parameciums showed diphasic movement pace which increased under hypergravity, then decreased during change of gravity, and increased again under microgravity. This phenomenon cannot be explained by only a physical mechanism, therefore some physiological mechanisms, such as Ca ion or Kion participation, may affect the movement under Author (NASDA) microgravity.

N94-29712# Fujita Health Univ., Toyohashi (Japan). School of Hygiene.

POSTURE CONTROL OF GOLDFISHES UNDER MICROGRAVITY [BISHO JURYOKUKA NI OKERU KINGYO NO SHISEI SEIGYO]

AKIRA TAKABAYASHI In Society of Medical Research for Space Station, The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight p 14-18 Mar. 1993 In JAPANESE

Avail: CASI HC A01/MF A01

Microgravity may cause several functional disorders mainly due to a lack of stimulation of labyrinthus. This may result in Space Adaptation Syndrome (SAS) observed during exposure to a weightless condition. The purpose of this study was to examine the effect of microgravity on statokinetic system using goldfish with or without labyrinthectomy or excision of eye balls. It is known that fish control their posture by stimulation of light and gravity; i.e. they keep the back to the direction of light and the ventral side to the direction of gravity. As a result, labyrinthectomized goldfish could adapt themselves under 1 G condition, although it took several months. Under microgravity, normal goldfish controlled their posture by light direction. While hemilateral labyrinthectomized ones showed a tendency to incline to the labyrinthectomized side, those with hemilateral and bilateral labyrinthectomy controlled their posture by the direction of light. Goldfish with excision of eye balls could keep normal posture under 1 G, however, when labyrinthectomized goldfish were exposed to microgravity in the dark, looping behavior was observed.

51 LIFE SCIENCES (GENERAL)

These results suggest that in labyrinthectomized fish's gravireceptors other than labyrinthus may function under 1 G, however, they cannot work under microgravity, which may cause unstable posture under microgravity.

Author (NASDA)

N94-29713# Tokyo Univ. (Japan).

BEHAVIOR AND VISUAL CONTROL OF CYPRINODONTS UNDER MICROGRAVITY [BISHO JURYOKUKA NI OKERU MEDAKA NO KYODO TO SHIKAKU NI YORU SEIGYO]

KENICHI IJIRI, HOSHIO EGUCHI, YASUKO TAGUCHI, ŠHUNJI NAGAOKA, MASAMICHI YAMASHITA, and AKEMI KUROTANI In Society of Medical Research for Space Station, The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight p 19-25 Mar. 1993 In JAPANESE Avail: CASI HC A02/MF A01

In order to collect fundamental data for the experiments under rnicrogravity in IML-2 (International Microgravity Laboratory-2), behavior of cyprinodonts was observed under microgravity, as well as with visual stimulation. Microgravity condition was achieved by parabolic flight, and cyprinodonts showed looping behavior with some twist as turning the ventral side to inside. There was a difference in looping pattern by strains of cyprinodonts in the light, while every strain of cyptinodonts showed looping behavior in the dark. This suggests that visual stimulation may be related with posture control under microgravity. For this reason, visual stimulation was given by rotating a cylinder with black and white stripes around a tank of cyprinodonts under 1 G. As a result, all strains of cyprinodonts followed the stripes, and among them, the strain with less looping behavior under microgravity showed the most remarkable ability to follow them. This suggests that the strain tolerant of microgravity have high sensitivity to visual stimulation.

Author (NASDA)

N94-29783*# Molecular Devices Corp., Menlo Park, CA.
MICROFABRICATED SILICON BIOSENSORS FOR
MICROPHYSIOMETRY

L. J. BOUSSE, J. M. LIBBY, and J. W. PARCE In JPL, Proceedings of the Workshop on Microtechnologies and Applications to Space Systems p 163-182 15 Jun. 1993

(Contract MDA972-92-C-0005)

Avail: CASI HC A03/MF A03

Microphysiometers are biosensor devices that measure the metabolic rate of living cells by detecting the rate of extracellular acidification caused by a small number of cells. The cells are entrapped in a microvolume chamber, whose bottom surface is a silicon sensor chip. In a further miniaturization step, we have recently fabricated multichannel flow-through chips that will allow greater throughput and multiplicity. Microphysiometer technology can be applied to the detection of microorganisms. We describe the sensitive detection of bacteria and yeast. Further applications of microphysiometry to the characterization of microorganisms can be anticipated.

Author

N94-29866# Saint Marianna Univ., Kawasaki (Japan). Dept. of Physiology.

SHORTENING VELOCITY AND CALCIUM SENSITIVITY OF SINGLE FIBERS FROM HINDLIMB SUSPENDED MUSCLE IN RATS [RATTO HAIYOSEI ISHUKU KINSENI NO TANSHUKU SOKUDO TO KARUSHIUMU KANJUSEI]

KATSUMASA YAMASHITA and TOSHITADA YOSHIOKA In Japan Society of Aerospace and Environmental Medicine, Japanese Journal of Aerospace and Environmental Medicine, Vol. 30, No. 2 p 71-80 1 Jun. 1993 In JAPANESE See also A93-55329

Avail: CASI HC A02/MF A01

The effect of suspension hypokinesia on the maximal shortening velocity (Vmax) and the calcium (Ca(2+)) sensitivity (pCa(sub 50)) of slow and fast skinned muscle fibers in rats after two-weektail-suspension and recovery for two weeks (two-week-recovery) was examined. Maximal tension in the fiber dissected from Extensor Digitorum Longus (EDL) muscle was significantly lower (p is less

than 0.01), but that in the fiber dissected from soleus muscle not different from the cage control. The Vmax in soleus and EDL and Ca(2+) sensitivity (pCa(sub 50)) in EDL increased following suspension. The maximal tension in EDL, Vmax and Ca(2+) sensitivity (pCa(sub 50)) in soleus and EDL were normalized after two weeks of recovery. The results demonstrate that the rate constant of crossbridge cycle is altered during hypokinesia and the altered muscle function during hypokinesia recovered to the control level when the rats were released from suspension for the same period as tail suspension.

N94-29943*# Ohio State Univ., Columbus. Dept. of Plant Biology. CELLULAR POLARITY AND INTERACTIONS IN PLANT GRAVIPERCEPTION Final Report, 1 Jun. 1991 - 17 Jun. 1993 FRED D. SACK 1993 4 p

(Contract NAG10-0085)

(NASA-CR-195261; NAS 1.26:195261; OSURF-724742) Avail CASI HC A01/MF A01

Presented are results of studies on the mechanisms of gravitropic sensing in higher and lower plants. Gravitropic roots of the aquatic angiosperm, Limnobium, were found to have sedimented amyloplasts in their elongation zone but not in their rootcap; nuclei were found to sediment in the elongation zone as well. Another study attempted to understand how plastid sedimentation occurs in vertical Ceratodon cells and how this sedimentation is regulated. To determine whether the cytoskeleton restricts plastid sedimentation. the effects of amiprophos-methyl (APM) and cytochalasin (CD) on plastid position were qualified. Results suggest that microtubules restrict the sedimentation of plastids along the length of the cell and that microtubules are load-bearing for all the plastids in the apical cell, demonstrating the importance of the cytoskeleton in maintaining organelle position and cell organization against the force of gravity. Physcomitrella and Funaria were also studied. Results suggest that gravitropism may be relatively common in moss protonemata and reinforce the idea that amyloplast mass functions in gravitropic sensing. CASI

N94-29968*# East Carolina Univ., Greenville, NC. Anatomy and Cell Biology School of Medicine.

PHYSIOLOGICAL ANATOMICAL RODENT EXPERIMENT (PARE) .04 FEASIBILITY TEST 2

HUBERT W. BURDEN 11 Apr. 1994 85 p

(Contract NCC2-810)

(NASA-CR-195210; NAS 1.26:195210) Avail: CASI HC A05/ MF A01

The objective of this feasibility study was to subject pregnant rats of the same age, strain, and size that will be utilized in a shuttle flight experiment to all flight conditions except the unique microgravity of space flight and determine the feasibility of the proposed experimental design to meet the experimental objectives. The study utilized facilities at NASA, Ames Research Center, Moffett Field, CA to subject the rats to the gravitational stresses of a simulated shuttle launch and simulated shuttle landing. One hundred pregnant rats were received on gestation day (G) 2 (day 1 = day of vaginal sperm) and on G7, eighty rats were laparotomized to determine the condition of pregnancy and allow assignment to test groups. The five test groups (N=10 each group) were as follows: Group 1, Nominal Flight; Group 2, Laparotomy Control; Group 3, Hysterectomy Control; Group 4, Vivarium Control; Group 5, Delayed Recovery. On G9, animals in groups 1,2,3, and 5 were subjected to a shuttle launch simulation. On G18, groups 1,2, and 3 were subjected to a shuttle landing simulation and on this same day groups 1 and 2 were subjected to unilateral hysterectomy to obtain fetuses and placentas for evaluation. Fetal crown-rump length and fetal weight of the Nominal Flight group was significantly less than the Laparotomy Control group, but placentas were similar. On G20, group 5 was subjected to a shuttle landing simulation and on this day this group received a unilateral hysterectomy and fetuses and placentas were weighed. Animals in all groups were allowed to go to term and all animals delivered between 06:00 hours G22 and 18:00 hours G23.

After delivery, a blood sample was taken from each experimental dam, and they were euthanized and the thymus and adrenal glands weighed. The thymus weight from all experimental group dams was decreased relative to the Vivarium Control group but adrenal glands and hormone values in dam plasma was similar in all groups. Pups from experimental groups were tattooed for identification, the anogenital distance of male pups was measured, and all pups placed with foster dams and litter sizes were standardized to 10. There was no difference in anogenital distances between male pups from different test groups. Pups delivered from Delayed Recovery animals were smaller than pups delivered from Nominal Flight animals. On neonatal day 7, all pups were euthanized and pup adrenal glands and thymus weighed. There was no difference in weights of thymus and adrenal glands in pups euthanized at neonatal day 7. Collectively, these data confirm the feasibility of the experimental design to meet objectives of the studies proposed for shuttle flight. Author

N94-30180 Michigan Biotechnology Inst., Lansing.
ONE CARBON METABOLISM IN ANAEROBIC BACTERIA:

ONE CARBON METABOLISM IN ANAEROBIC BACTERIA: REGULATION OF CARBON AND ELECTRON FLOW DURING ORGANIC ACID PRODUCTION

J. G. ZEIKUS and M. JAIN 1993 8 p Limited Reproducibility: More than 20% of this document may be affected by microfiche quality (Contract DE-FG02-87ER-13719)

(DE94-004852; DOE/ER-13719/5) Avail: CASI HC A02

The project deals with understanding the fundamental biochemical mechanisms that physiologically control and regulate carbon and electron flow in anaerobic chemosynthetic bacteria that couple metabolism of single carbon compounds and hydrogen to the production of organic acids (formic, acetic, butyric, and succinic) or methane. The authors compare the regulation of carbon dioxide and hydrogen metabolism by fermentation, enzyme, and electron carrier analysis using Butyribacterium methylotrophicum, Anaeroblospirillum succiniciproducens, Methanosarcina barkeri, and a newly isolated triculture composed of a syntrophic butyrate degrader strain IB, Methanosarcina mazei, and Methanobacterium formicicum as model systems. To understand the regulation of hydrogen metabolism during butyrate production or acetate degradation, hydrogenase activity in B. methylotrophicum or M. barkeri is measured in relation to growth substrate and pH; hydrogenase is purified and characterized to investigate number of hydrogenases and their localization and functions; and their sequences are determined. To understand the mechanism for catabolic CO2 fixation to succinate the PEP carboxykinase enzyme and gene of A. succiniciproducens are purified and characterized. Genetically engineered strains of Escherichia coli containing the phosphoenol pyruvate (PEP) carboxykinase gene are examined for their ability to produce succinate in high yield. To understand the mechanism of fatty acid degradation by syntrophic acetogens during mixed culture methanogenesis formate and hydrogen production are characterized by radio tracer studies. It is intended that these studies provide strategies to improve anaerobic fermentations used for the production of organic acids or methane and new basic understanding on catabolic CO2 fixation mechanisms and on the function of hydrogenase in anaerobic bacteria. DÖE

N94-30461*# Department of Agriculture, Starkville, MS. Forest Service.

SEED VIABILITY DETECTION USING COMPUTERIZED FALSE-COLOR RADIOGRAPHIC IMAGE ENHANCEMENT

J. A. VOZZO and MICHAEL MARKO In NASA, Washington, Technology 2003: The Fourth National Technology Transfer Conference and Exposition, Volume 1 p 179-187 Feb. 1994

Avail: CASI HC A02/MF A04

Seed radiographs are divided into density zones which are related to seed germination. The seeds which germinate have densities relating to false-color red. In turn, a seed sorter may be designed which rejects those seeds not having sufficient red to activate a gate along a moving belt containing the seed source. This results in separating only seeds with the preselected densities

representing biological viability lending to germination. These selected seeds demand a higher market value. Actual false-coloring isn't required for a computer to distinguish the significant gray-zone range. This range can be predetermined and screened without the necessity of red imaging. Applying false-color enhancement is a means of emphasizing differences in densities of gray within any subject from photographic, radiographic, or video imaging. Within the 0-255 range of gray levels, colors can be assigned to any single level or group of gray levels. Densitometric values then become easily recognized colors which relate to the image density. Choosing a color to identify any given density allows separation by morphology or composition (form or function). Additionally, relative areas of each color are readily available for determining distribution of that density by comparison with other densities within the image.

Author (revised)

N94-30607# Department of Energy, Washington, DC. Office of Energy Research.

ANNUAL REPORT AND SUMMARIES OF FY 1993 ACTIVITIES: DIVISION OF ENERGY BIOSCIENCES

Sep. 1993 140 p

(DE94-001723; DOE/ER-0602P) Avail: CASI HC A07/MF A02

The mission of the Energy Biosciences program is to generate fundamental information about plants and non-health related microorganisms that will constitute the base for new biotechnologies as well as supply information to improve usages of such organisms in their current form. The collective aims are totally consistent with the Department of Energy's objectives of developing alternate energy sources, replacements for otherwise fossil energy derived products and providing critical fundamental information for the preservation and restoration of environmental conditions affected by energy related activities. The EB program takes full advantage of its organizational locale in the Office of Basic Energy Sciences to directly interact with such disciplines as Materials Sciences, Chemistry, Engineering and Geosciences to promote cross-disciplinary research and planning activities. One of the major specific objectives of the EB program is to probe the enormous capabilities of the specified organisms to carry out biochemical conversions. The limitation to realization of entirely new products and processes via biotechnology is the lack of basic understanding of natural processes. Such knowledge will then afford the advantage of developing procedures to the benefit of people and their society in providing new products along with providing new employment possibilities. This document consists of abstracts of projects supported in FY 1993.

N94-30895 Michigan Univ., Ann Arbor.

ROLE OF X RAY-INDUCED TRANSCRIPTS IN ADAPTIVE RESPONSES FOLLOWING X RAYS Progress Report No. 2

D. A. BOOTHMAN 1993 18 p Limited Reproducibility: More than 20% of this document may be affected by microfiche quality (Contract DE-FG02-91ER-61256)

(DE94-005412; DOE/ER-61256/T2) Avail: Issuing Activity (Department of Energy (DOE))

The overall goal of this proposal is to clone low dose X-rayinduced genes via molecular biology cloning techniques. From previous data, certain human cells can clearly carry out adaptive survival responses (ASR's) following ionizing radiation. Research goals are to better understand how some human cells can establish ASR's, and why other cells fail to do so. The author has been successful at identifying several genes whose expressions are altered during the establishment of, and actual processes occurring in, the adaptive response of U1-Mel cells. He will, in the next year or so, investigate the kinetics of expression of these genes, and whether or not other environmental stresses affect the expressions of these genes via Northern blot analyses. Finally, he will begin to investigate the function(s) of these genes within the cell, either under normal conditions of growth or following X-irradiation, using antisense expression technologies. Antisense RNA analyses and DNA repair endpoints (i.e., survival recovery, alkaline/neutral filter elutions, and

PFGE) will be combined to examine the effects of specific gene 'knock out' experiments on ASR's in those human cells which demonstrate this response. The author is constructing mammalian expression vectors containing cyclin A, cyclin B, p53, or xip5, and xip12 (when full-length cDNA's are available) in the 'sense' orientation to overexpress these genes in human cells which did not demonstrate ASR's, such as HTB-152 or a variety of other human fibroblasts. Since many of the xips identified by 2-D gel electrophoresis were cell cycle regulated, the factors turning them on or off within a normal cell cycle may be clearly related to the events occurring in human cells following a genetic insult.

N94-31294# Florida Univ., Gainesville.

INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY. QUANTUM BIOLOGY SYMPOSIUM NUMBER 20. PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON THE APPLICATION OF FUNDAMENTAL THEORY TO PROBLEMS OF BIOLOGY AND PHARMACOLOGY Final Report, 28 Feb. 1993 - 27 Feb. 1994

RODNEY J. BARTLETT Feb. 1994 260 p Symposium held in St. Augustine, FL, 13-20 Mar. 1993

(Contract DAAH04-93-C-0072)

(AD-A276294; ARO-31084.1-PH-CF) Avail: CASI HC A12/MF A03
The format of the symposium adopted for the past few years was followed again this year with a compact eight-day schedule with an integrated program of biology, quantum chemistry, and condensed matter physics. The topics of the sessions covered by these proceedings include Modeling of Biomolecules and Intramembranal Systems, Protein-DNA Interactions, Electron Transport Mechanisms in Biological Systems, and Computational Approaches to Molecular Design. The articles have been subjected to the ordinary refereeing procedures of the International Journal of Quantum Chemistry, condensed matter physics, and associated poster sessions are published in a separate volume of the International Journal of Quantum Chemistry.

52 AEROSPACE MEDICINE

Includes physiological factors; biological effects of radiation; and effects of weightlessness on man and animals.

N94-28850# Japan Society of Aerospace and Environmental Medicine, Tokyo.

JAPANESE JOURNAL OF AEROSPACE AND ENVIRONMENTAL MEDICINE, VOLUME 30, NO. 1 [UCHU KOKU KANKYO IGAKU DAI 30 KAN DAI 1 GO]

MAKOTO MASUDA, ed., MASAMITSU OSHIMA, ed., KANICHI TAKAGI, ed., SAKAE YOKOBORI, ed., MITSUO SASAKI, ed., ICHIRO ASUKATA, ed., SACHIO IKAWA, ed., YUKIKO KAKIMOTO, ed., HIROSHI KANSAKU, ed., TADAAKI MANO, ed. et al. 1 Mar. 1993 58 p In ENGLISH and JAPANESE (ISSN 0387-0723)

(JTN-94-80598) Avail: CASI HC A04/MF A01

The following topics were discussed: humans, mice, gravitational effects, acceleration tolerance, microgravity, artificial gravity, physiological effects, arteries, spine, blood, oxygen saturation, ova, fertilization, embryos, early development, growth, food, meal ingestion, vasomotor response, nervous system, oculomotor nerves, head-up tilt, cardiovascular system, blood flow, blood vessel, motion sickness, space motion sickness, space adaptation syndrome, space perception, vertigo, dizziness, aircraft pilots, astronauts, flight, nystagmus, ADH (Antidiuretic Hormone), and electronystagmography.

N94-28851# Kanagawa Prefectual Coll. (Japan). Dept. of Oral and Maxillofacial Radiology.

IMAGE TECHNOLOGY AND INFORMATION ANALYSIS OF

BONE CHANGE WITH GRAVITATIONAL EXPOSURE

KOSUKE NISHIMURA In Japan Society of Aerospace and Environmental Medicine, Japanese Journal of Aerospace and Environmental Medicine, Volume 30, No. 1 p 1-10 1 Mar. 1993 See also A93-49177

Avail: CASI HC A02/MF A01

The influences of gravitational changes (microgravity approximately equals 0 G, control: 1 G, hypergravity: 2 G) on the bone were analyzed from the point of view of imaging technology using a microfocus tube and a highly sensitive x-ray image sensor with the photostimulable phosphor. Gravitational changes markedly affected the spongy bone of the posterior vertebral joint, with bone resorption occurring at approximately equals 0 G and enhancement of bone formation at 2 G. Such changes were larger in the posterior vertebral joints that bear more weight. In the seventh posterior vertebral joint, which showed the largest bone changes, the photostimulated luminescence level increased by about 19 percent and decreased by about 4 percent at approximately equals 0 G and 2 G, respectively, compared with 1 G. These bone changes resemble those occurring during the aging process of mandibular bone trabeculae on earth.

Author (NASDA)

N94-28852# Nihon Univ., Tokyo (Japan). Dept. of Anesthesiology.

ARTERIAL OXYGEN SATURATION DURING +GZ
ACCELERATION BY SHORT-RADIUS CENTRIFUGE [KOGATA
ENSHINKI NI YORU JINKO JURYOKU FUKACHU NO
DOMYAKUKETSU SANSO HOWADO NO HENKA]

KENICHI IWASAKI, HAJIME SUZUKI, MASAO ITO, TAKAICHI MANO, CHIKAKO SAEKI, and KAZUYOSHI YAJIMA In Japan Society of Aerospace and Environmental Medicine, Japanese Journal of Aerospace and Environmental Medicine, Volume 30, No. 1 p 11-17 1 Mar. 1993 In JAPANESE See also A93-49178 Avail: CASI HC A02/MF A01

Artificial gravity has been proposed to prevent the problems of physiological deconditioning in space. When Ground-based studies to make an artificial gravity with short-radius centrifuge were intended, it has been reported that decreases of the arterial Oxygen Saturation (SaO2) caused by a ventilation/perfusion mismatch in human lung and a decrease in central blood volume were observed at +3 Gz or above it. However, the duration of centrifuge was only a few minutes. SaO2 was measured during 60 min +Gz acceleration by a pulse oximeter. Seven men were studied at 1.4 G, 1.7 G, and 2.0 G. Significant decreases of SaO2 occurred at 1.7 G from 10 min to 30 min and at 2.0 G from 10 min to 40 min. SaO2 were improved after 35 min (1.7 G) and 45 min (2.0 G). Increases in heart rate, blood pressure, and tidal volume improved the decreases of SaO2 during +Gz acceleration.

N94-28854# Kanazawa Woman's Junior Coll. (Japan).
EFFECT OF FOOD INTAKE ON SKIN VASOMOTOR
RESPONSES TO HEAD-UP TILT IN HUMANS

ATSUO HIRAI, YOSHIE UKETA, MINORU TANABE, and SOTARO SAKURADA In Japan Society of Aerospace and Environmental Medicine, Japanese Journal of Aerospace and Environmental Medicine, Volume 30, No. 1 p 27-29 1 Mar. 1993 See also A93-49180 Avail: CASI HC A01/MF A01

Cardiovascular responses to a 10 min head-up tilt at 60 deg were investigated in seven subjects before and after meal ingestion. The tilt increased heart rate and body core temperature, and decreased blood pressure, mean skin temperature (calculated from forehead, trunk, forearm, finger, thigh, calf and foot temperatures), and finger blood flow regardless of feeding conditions. However, finger temperature at the end of the tilt was significantly higher after food ingestion than before, which was not the case in other sites of the skin. Furthermore, the amount of reduction in finger blood flow was significantly reduced by food ingestion. These results suggest that vasoconstrictor drive to skin vessels is suppressed by food ingestion only in the fingers.

Author (NASDA)

N94-28855# Nagoya City Univ. (Japan). Dept. of Otorhinolaryngology.

BASIC UNDERSTANDING OF VERTIGO [MEMAI NO KISO]

MOTOYUKI HASHIBA In Japan Society of Aerospace and Environmental Medicine, Japanese Journal of Aerospace and Environmental Medicine, Volume 30, No. 1 p 34-37 1 Mar. 1993 In JAPANESE Presented at the Symposium of the 38th Annual Meeting of Japan Society of Aerospace and Environmental Medicine, Tokyo, Japan, 3 Oct. 1992

Avail: CASI HC A01/MF A01

Human kinesthesia is largely dependent on visual sense, vestibular sense, and somatic sense, and unbalance of these senses causes failure of integration, which may result in vertigo. Abnormal vertigo often occurs when the right and left vestibule senses different information. For example, when rotated, endolymphatic fluid in semicircular canals flows in the opposite direction in right and left, so that nerve activity is stimulated in one organ while suppressed in the other. For vertigo without rotation, a disorder must occur in one vestibular system to cause unbalanced nerve impulses. Physiological vertigo often occurs after rotation; that is, endolymphatic fluid flows by inertia after rotation, which keeps stimulating hairy cells, although visual and somatic nerves transmit contradictory information. In addition, the velocity storage mechanism in the semicircular canals may also prolong stimulation of hair cells. For other physiological vertigo, it was reported that caloric stimulation of the internal acoustic meatus causes vertigo. This phenomenon was explained by convection of endolymphatic fluid, however, in the experiment of caloric stimulation in outer space, vertigo occurred under weightless condition. Therefore, there may be mechanisms other than convection. In addition, it was known that vertigo was caused by visual stimulation alone. In studying vertigo, it is necessary to evaluate the subjective symptom by objective kinesthesia responses, however, such responses may be affected more or less by the central nervous system. Author (NASDA)

N94-28856# Japan Air Lines Co. Ltd., Tokyo. Dept. of Otorhinolaryngology.

DISTURBANCE OF EQUILIBRIUM ON JAL FLIGHT CREW [UNKO JOMUIN NI OKERU MEMAI]

TAKAKUNI KATO In Japan Society of Aerospace and Environmental Medicine, Japanese Journal of Aerospace and Environmental Medicine, Volume 30, No. 1 p 38-40 1 Mar. 1993 In JAPANESE Presented at the Symposium of the 38th Annual Meeting of Japan Society of Aerospace and Environmental Medicine, Tokyo, Japan, 3 Oct. 1992

Avail: CASI HC A01/MF A01

Flight crew are obliged to undergo flight physical examination periodically by the Ministry of Transport. This examination must follow the flight physical examination manual that regulates standards of diagnosis for each organ disease, including acoustic and equilibrium sense. This article discusses the cases with disturbance of equilibrium and nystagmus. The subjects were 47 Japan Airlines (JAL) flight crew who were found to have either statoacoustic disorder or anamnesis in the physical examination. As a result, 19 cases were asymptomatic, and, in the other 28 cases, symptoms were recognized regardless of flight in most cases, although it happened during and after flight in some cases. A total of 8 cases were asymptomatic nystagmus. According to the standard of flight physical examination, flight crew who are found to exhibit a statoacoustic disorder must be scrutinized by electronystagmography (ENG), and if nystagmus is identified, the license will be suspended. However, it is a big loss of man-power to suspend from flight these crew who have no subjective symptoms and able to spend normal life. Author (NASDA)

N94-28857# Jikei Univ, Tokyo (Japan). Dept. of Otorhinolaryngology.

SPACE AND VERTIGO: IN RELATION TO SPACE MOTION SICKNESS [UCHU TO MEMAI: UCHUYOI TONO KANREN NI TSUITE]

MASANORI ISHII In Japan Society of Aerospace and Environmental Medicine, Japanese Journal of Aerospace and Environmental Medicine, Volume 30, No. 1 p 41-45 1 Mar. 1993 In JAPANESE Presented at the Symposium of the 38th Annual Meeting of Japan Society of Aerospace and Environmental Medicine, Tokyo, Japan, 3 Oct. 1992

Avail: CASI HC A01/MF A01

When a man goes to outer space, he will be exposed to weightless condition, so that the sense of space must be modified to adapt himself the new situation. The space motion sickness is considered to be a process to adapt oneself to weightless condition. However, the disease causes not only nausea and vomiting, but also disorder of equilibrium sense and illusion, which may degenerate operation ability of payload specialists. In fact, several missions had to be changed due to space motion sickness. This disease occurs immediately after coming to weightless condition, peaks at one to two day, and then gradually disappears in many cases. The cause may be disintegration of senses because input to the labyrinthus system and semicircular canal could be changed under weightless condition. To examine this theory, Occular Counter Rolling (OCR) has been used as an objective index of labyrinthus function, and it was proposed that difference between right and left OCR may be associated with space motion sickness. On the other hand, although in the same weightless condition, the disease did not occur in about one third of crew, and the incidence was affected by frequency of flight or physical conditions. Therefore, space motion sickness may result from not only disintegration of senses, but also from other factors such as effects of Antidiuretic Hormone (ADH) and enkephalin, which are associated with long term memory and is necessary for adaptation to a new environment. Author (NASDA)

N94-28858# Tokyo Medical and Dental Univ. (Japan). Dept. of Otolaryngology.

EQUILIBRIUM DYSFUNCTION IN THE CLINICAL FIELD [RINSHO NI OKERU MEMAI]

JIN OKUBO In Japan Society of Aerospace and Environmental Medicine, Japanese Journal of Aerospace and Environmental Medicine, Volume 30, No. 1 p 46-49 1 Mar. 1993 In JAPANESE Presented at the Symposium of the 38th Annual Meeting of Japan Society of Aerospace and Environmental Medicine, Tokyo, Japan, 3 Oct. 1992

Avail: CASI HC A01/MF A01

This article presents symptoms and diagnosis of equilibrium dysfunction in the clinical field. In general, equilibrium dysfunction is a subjective symptom so that it is difficult to objectively diagnose. It is problematic to confirm diagnosis by only nystagmus test because not only vestibular disorders but also also visual and somatid disorders may cause equilibrium dysfunction. In fact, nystagmus is not always observed in equilibrium dysfunction patients. The equilibrium dysfunction can be classified into vertigo, dizziness and blackout, and this classification is important in diagnosis to identify the causal sites. For nystagmus tests, voluntary and involuntary occular movement is examined, however, there are a few outpatients who showed nystagnus in diagnosis. Induction and duration of nystagmus are also useful to identify the dysfunctional sites. In addition, accessory symptoms should be considered for diagnosis. It is interesting that the direction of nystagmus is related to head position. Nystagmus by caloric stimulation changes in duration or development according to the head position. These phenomena suggest that gravity may intervene in the occurrence of nystagmus. Author (NASDA)

N94-28892 Krug Life Sciences, Inc., San Antonio, TX.
RELAXED TOLERANCE FOLLOWING HSG, HIGH SUSTAINED
+GZ Interim Report, Nov. 1992 - Nov. 1993

ROBERT M. SHAFFSTAFF Nov. 1993 5 p Limited Reproducibility: More than 20% of this document may be affected by microfiche quality

(Contract F33615-92-C-0018)

(AD-A275204; AL/CF-PC-1993-0042) Avail: CASI HC A01

Changes in relaxed +G(sub z) tolerance impact the support required from G protective measures and may affect the capability of the aircrew to reengage following exposure to HSG. During and post-HSG, simultaneous physiological events which could increase or decrease G-tolerance are activated. This study exposed 6 male centrifuge subjects to a GOR(Gradual Onset Rate = 0.067 G/ second) acceleration to their subjective G-tolerance limit. Following a rest period, the subjects were exposed to a 7+G(sub z) ROR (Rapid Onset Rate = 1.0 G/second) acceleration for 60 seconds. Immediately after the ROR the subjects were reexposed to the GOR and taken to their relaxed tolerance limit. RESULTS. The subjects relaxed tolerance on the first GOR (pre-HSG) was 5.4+G(sub z)+/-0.7 (X+/-SD) and their second GOR tolerance (post-HSG) was 4.5+/ -0.6. Statistical significance via Student's T Test (2 tailed) was p=0.065, but 5 of 6 subjects had a reduction in post-HSi tolerance. Electrocardiogram and heart rate evaluations provided an indicator of the cardiovascular response. This study suggests that relaxed +G(sub z) tolerance is lowered following a high G exposure. Such a post-HSG reduction in relaxed tolerance would place a greater burden on the pilot's G protective systems thereby limiting one's ability to fully utilize the capability of the aircraft.

N94-28912# Naval Health Research Center, San Diego, CA.
PHYSIOLOGICAL RESPONSES DURING SHIPBOARD
FIREFIGHTING Final Report

BRAD L. BENNETT, R. D. HAGAN, G. BANTA, and F. WILLIAMS Jul. 1993 24 p

(AD-A275104; NHRC-93-9) Avail: CASI HC A03/MF A01

The findings from previous studies of men wearing firefighting clothing suggest a high potential for individual heat strain associated with firefighting. However, no study has determined the level of heat strain during actual firefighting conditions. Thus, the objective of this study was to determine the level of heat strain experienced by U.S. Navy personnel while combating fires aboard a fire research ship. Subject volunteers (n=9) were recorded for rectal and mean skin temperatures and heart rate during three fire test days. Air temperatures in the compartment containing the fire to be extinguished averaged 470 + or - 170 c, while air temperatures in the compartment from which the fire was fought ranged from 40 to 125 C. Peak values for rectal temperature averaged 39.2 + or - 1.0 C, while peak mean skin temperature averaged 39.5 + or + 0.9 C. Peak body heat storage averaged 2.02 + or - 0.77 kcal.kg-1 and peak heart rate averaged 186 + or - 13 bpm. Our findings indicate that shipboard firefighting is associated with a remarkable level of individual heat strain. These findings have applications to operational training programs, generation of exposure guidelines, and development of heat strain countermeasures.

N94-29049# Defence and Civil Inst. of Environmental Medicine, Downsview (Ontario).

EFFECTS OF ENDURANCE TRAINING ON HEAT-EXERCISE TOLERANCE IN MEN WEARING NBC PROTECTIVE CLOTHING Research Report

YUKITOSHI AOYAGI, TOMM. MCLELLAN, and ROY J. SHEPHARD Aug. 1993 37 p

(AD-A275176; DCIEM-93-46) Avail: CASI HC A03/MF A01

Protective clothing imposes significant physiological and psychological stresses on the human body and may limit work tolerance, especially in hot environments. The additional strains imposed by protective clothing arise mainly because it is difficult for sweat to evaporate through relatively impermeable fabrics. Endurance training is a commonly adopted tactic to improve tolerance times when individuals must work in the heat. Potential benefits include improved physical fitness, increased sweating, and expanded plasma volume. However, it is unclear whether such responses develop and/or are helpful when wearing protective garments with limited vapor permeability. The purpose of this study was therefore to examine the influence of endurance training on exercise tolerance

in a hot environment when subjects were wearing either normal light combat clothing or clothing offering protection against nuclear, biological, and/or chemical (NBC) agents. DTIC

N94-29071 Krug Life Sciences, Inc., San Antonio, TX.
DECOMPRESSION SICKNESS RISK VERSUS TIME AND
ALTITUDE Interim Report, Nov. 1992 - 1993

JAMES T. WEBB and ANDREW A. PILMANIS Nov. 1993 6 p Limited Reproducibility: More than 20% of this document may be affected by microfiche quality

(Contract F33615-92-C-0018)

(AD-A275261; AL/CF-PC-1993-0039) Avail: Issuing Activity (Defense Technical Information Center (DTIC))

To predict altitude decompression sickness (DCS) risk with any degree of accuracy, one must weigh variables such as prebreathe time, rate of ascent/descent, time at altitude, altitude, mixed breathing gas (dependent upon altitude), and profiles with multiple ascents and descents. The length of research chamber exposures is fixed. Therefore, risk assessment is based on DCS incidence after this fixed period at simulated altitude. From an operational standpoint, variable time at altitude complicates any predictive capability, although a computer model to handle all of these variables is in development. In the interim, a retrospective study from the Armstrong Laboratory Decompression Sickness Research Database has produced risk curves which can be used to predict DCS or venous gas emboli (VGE) incidence as a function of time at various altitudes. We limited the data to: (1) zero-prebreathe exposures to less than 20,000 ft breathing 50% O2, 50% N2; (2) zero-prebreathe exposures to less than 20,000 ft breathing 100% O2; and (3) 1-h prebreathe exposures to greater than 20,000 ft breathing 100% O2. Using the curves, one can select a time/altitude of exposure and estimate the DCS and VGE percentage.

N94-29116# Army Medical Center, Aurora, CO. Dept. of Clinical Investigation.

CLINICAL INVESTIGATION PROGRAM Annual Progress Report No. 29, FY 1993

KENNETH E. SHERMAN 30 Sep. 1993 524 p (AD-A275025) Avail: CASI HC A22/MF A04

This report identifies those individuals who are conducting investigative protocols at Fitzsimons Army Medical. An abstract of each protocol—which gives abbreviated technical approach, objectives, and progress—is presented.

N94-29150# Edgerton, Germeshausen and Grier, Inc., Albuquerque, NM.

BLAST OVERPRESSURE STUDIES WITH ANIMALS AND MAN DANIEL L. JOHNSON, JOHN T. YELVERTON, WILLIAM HICKS, and ROY DOYAL 31 Oct. 1993 245 p (Contract DAMD17-88-C-8141)

(AD-A275038) Avail: CASI HC A11/MF A03

Anesthetized sheep were exposed to explosions generated by the detonation of various weights of C-4 ranging in size from 57 to 1361 g in three different enclosures. The dimensions of the enclosures were 3.05 x 1.52 x 2.44 m, 3.05 x 2.44 x 2.44 m, and 4.88 x 3.05 x 2.44 m or 11.3, 18.2, and 36.3 cu m, respectively. The results from these experiments were used to establish an injury prediction curve using severity of injury indices and smoothed peak pressure. It appears to be an adequate model for the data collected and correlates well with previously reported injury prediction curves. It was determined that quasi-static pressure per se doesn't influence non-auditory injury to any appreciable degree. However, changes in the quasi-static pressure can affect the reverberant nature of the complex wave which seems to have a role in solid intra-abdominal response. There was also a simple relationship between lung injury and loading density demonstrated. As loading density increases, lung injury increases.

N94-29211 Air Force Inst. of Tech., Wright-Patterson AFB, OH. EVALUATION OF MONITORING AUDIOMETRY IN THE UNITED STATES AIR FORCE HEARING CONSERVATION PROGRAM Ph.D. Thesis

THERESA Y. SCHULZ 1993 27 p Limited Reproducibility: More than 20% of this document may be affected by microfiche quality (AD-A275309; AFIT/CI/CIA-93-24D) Avail: CASI HC A03

The purpose of this study is to evaluate the effectiveness and efficiency of the methods and procedures of audiometric monitoring as used in the United States Air Force (USAF) Hearing Conservation Program (HCP). These program elements are common to HCP's both in the other military services (U.S. Army and Navy) and in civilian industry. However, there are a multitude of variations in implementing these common elements of a HCP.

N94-29431# Army Armament Research, Development and Engineering Center, Watervliet, NY. Benet Lab.

SYNAPTOGENESIS, SELECTIVE STABILIZATION, AND FREE ASSOCIATION Final Report

MARK A. JOHNSON and RAYMOND D. SCANLON Nov. 1993 20 p

(AD-A275250; ARCCB-TR-93039) Avail: CASI HC A03/MF A01

This report describes the material aspects of learning through the processes of synaptogenesis, transient redundancy, and selective stabilization. Synapses are potentiated during these processes and provide channels for incoming signal energy en route to nominate motor responses. They form codons that represent the activity of a large assemblage of neurons in various cortical regions. Codons are active during a state of dynamic instability in the neocortex when the thalamus blocks sensory input. They may also alter the gating cycle of the thalamus through interaction with the thalamic reticular nucleus. A computer simulation of these processes illustrates these concepts.

N94-29709# Society of Medical Research for Space Station, Nagoya (Japan).

THE MERSS 5TH SYMPOSIUM ON SPACE MEDICINE: MEDICAL AND PHYSIOLOGICAL EXPERIMENT UTILIZING PARABOLIC FLIGHT Report No. 8 [DAI 5 KAI UCHU IGAKU SHINPOJIUMU: PARABORIKKU FURAITO NI OKERU IGAKU SEIRIGAKU JIKKEN]

Mar. 1993 71 p In JAPANESE Symposium held in Aichi, Japan, 28 Nov. 1992

(JTN-94-80588) Avail: CASI HC A04/MF A01

The following topics were discussed: parabolic flight, flight control, aircraft control, aircraft performance, aircraft equipment, fuel system, hydraulic system, engine oil system, safety management, Paramecium, microgravity, gravitational effects, gold fish, attitude control, sailing, vestibules, Cyprinodontidae, visual perception, behavior, cardiovascular system, eye movement, head movement, sensory match, information processing, autonomic nervous system, pupillary reflex, heart rate, blood pressure, blood volume, respiration rate, stomach, emesis, electrogastrogram, motion sickness, physiological effects, physiological factors, space adaptation syndrome, space commercialization, space tour, manned space flight, safety management, and economic factor. Author (NASDA)

N94-29717# National Space Development Agency, Tokyo (Japan).

HEMODYNAMIC MEASUREMENT DURING PARABOLIC FLIGHT (PARABORIKKU FURAITO NI OKERU JUNKAN DOTAI NO KEISOKU)

AKIRA MIYAMOTO, SHUNJI NAGAOKA, and SEIZO ISHIKURA In Society of Medical Research for Space Station, The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight p 48-54 Mar. 1993 In JAPANESE Avail: CASI HC A02/MF A01

Under microgravity such as in outer space, several changes

may occur in the human body by movement of fluid. To examine the hemodynamic effect, microgravity condition was simulated by parabolic flight, and the change of hemodynamics was measured. During parabolic flight, the subject, a 28 year old healthy volunteer, experienced hypergravity of approximately 2.3 g prior to microgravity. The flight was performed from 9 to 11 times a day for six days. As a result, the measurements of blood pressure, heart rate, and stroke volume changed under microgravity. In addition, such changes were affected by time and sitting position; that is, when sitting up straight (90 deg), the change of gravity affected the heart rate and stroke volume more than when sitting in the halfway up (45 deg) position. Comparing heart rates between the first three days and later three days, the change decreased as time passed. These results suggest that hemodynamics may be affected by hypergravity and posture, as well as by experience, at least under microgravity by parabolic flight. Author (NASDA)

N94-29718# Nagoya Univ. (Japan). Dept. of Equilibrium Adaptation Research.

MOTION SICKNESS IN PARABOLIC FLIGHT: POSSIBILITY OF ELECTROGASTROGRAPHY AS AN OBJECTIVE INDEX [PARABORIKKU FURAITO NI OKERU MOSHON SHIKKUNESU: TAKAKUTEKI KYAKKANTEKI SHIHYO TO SHITENO IDENZU NO KANOSEI]

HIROYUKI SUZUKI, YOSHIRO WADA, and SATORU WATANABE In Society of Medical Research for Space Station, The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight p 55-63 Mar. 1993 In JAPANESE Sponsored by Science and Technology Agency, Tokyo, Japan Avail: CASI HC A02/MF A01

Motion sickness is a disease that causes autonomic nervous symptoms such as vomiting or nausea by vestibular stimulation in weightless condition, linear acceleration, or by visual sense. Interest is focused on the disease from the point of space sickness. The purpose of this study was to discuss the effectiveness of electrogastrography as an objective index of motion sickness under microgravity achieved by parabolic flight. The electrogastrogram obtained during parabolic flight was examined to determine if it is capable of being used as an objective index of motion sickness, whether it can predict vomiting, and whether it can reflect the change of gravity. As a result, there was a correlation between amplitude of electrogastrogram and motion sickness. In addition, electrogastrogram showed particular patterns before and during vomiting, although physiological events which are supposed to be reflected by this pattern are unknown yet. Electrogastrogram also showed changes of each pattern when gravity was changed. Author (NASDA)

N94-29863# Japan Society of Aerospace and Environmental Medicine, Tokyo.

JAPANESE JOURNAL OF AEROSPACE AND ENVIRON-MENTAL MEDICINE, VOL. 30, NO. 2 [UCHU KOKU KANKYO IGAKU DAI 30 KAN DAI 2 GO]

MAKOTO MASUDA, MASAMITSU OSHIMA, KANICHI TAKAGI, SAKAE YOKOBORI, MITSUO SASAKI, ICHIRO ASUKATA, SACHIO IKAWA, YUKIKO KAKIMOTO, HIROSHI KANSAKU, TADAAKI MANO et al. 1 Jun. 1993 59 p In JAPANESE (ISSN 0387-0723)

(JTN-94-80599) Avail: CASI HC A04/MF A01

The following topics were discussed: brain, thermoregulation, regulatory mechanisms, temperature control, blood flow, facial skin, make-up, heat transfer, body temperature, muscles, musculoskeletal system, muscle atrophy, sympathetic nerve response, gravitational effects, microgravity, physiological effects, physiological factors, psychological factors, water immersion, tail suspension, skinned fiber, shortening velocity, calcium sensitivity, aircraft pilots, pilot performance, visual perception, perceptual errors, visual discrimination, dot target, target detection, aircraft structures, response time, tachistoscopes, electroencephalography, rats, and human beings.

Author (NASDA)

N94-29864# Kanazawa Woman's Junior Coll. (Japan).
EFFECTS OF MAKE-UP ON THE HEAT TRANSFER FROM THE
HEAD IN HYPERTHERMIC CONDITIONS [MUFU KOON
KANKYO DE TOBU NO NETSU IDO NI OYOBOSU KESHO

ATSUO HIRAI, KOZO HIRATA, MASAMI HIRASHITA, and TETSUO NAGASAKA In Japan Society of Aerospace and Environmental Medicine, Japanese Journal of Aerospace and Environmental Medicine, Vol. 30, No. 2 p 55-62 1 Jun. 1993 In JAPANESE Sponsored by the Ministry of Education, Science and Culture, Tokyo, Japan; the Decente and Ishimoto Memorial Foundation for the Promotion of Sports Science, Osaka, Japan; and Kao Co. Ltd., Tokyo, Japan Avail: CASI HC A02/MF A01

This study was performed to verify whether the make-up disturbs selective brain cooling in hyperthermic conditions. Seven male volunteers were subjected to passive body warming in a climatic chamber (air temperature, 25 C; relative humidity, 40 percent). Body warming was made for about 40 min by placing the subjects in a box-shaped body warming unit, enclosing all but the subject's head. When Esophageal Temperature (T(sub es)) reached a level 0.5 C higher than the prewarming temperature, Hand-Grip exercise (HG) at 20 percent of maximal strength commenced and continued until exhaustion. In subjects with make-up (Hyperthermia Cosmetic (HC)), increases in forehead skin blood flow and temperature were significantly less than compared with the control group (Hyperthermia Non-Cosmetic (HNC)). However, local thermal sensation of the face was significantly higher in HC than in HNC. Tympanic Temperature (T(sub ty)) was always higher than T(sub es) before body warming, but the relationship reversed about 30 min after the start of body warming. Compared with that in HNC, the difference between T(sub es) and T(sub ty) 30 min after the start of body warming became less in HC (HC: 0.05 C versus HNC: 0.09 C). There was no significant difference in blood pressure, heart rate, T(sub es), and T(sub ty) between the two groups. Endurance time for HG was also not different between the two groups. From these results, it is concluded that the make-up can disturb selective brain cooling during body warming, although the extent is small. Author (NASDA)

N94-29865# Toyota Coll. of Technology (Japan). Lab. of Applied Physiology.

EFFECT OF WATER IMMERSION ON MUSCLE SYMPATHETIC NERVE RESPONSE DURING STATIC MUSCLE CONTRACTION [UNDOJI NO KIN KOKAN SHINKEI HANNO NI OYOBOSU SUISHIN NO KOKA]

MITSURU SAITO, TADAAKI MANO, SATOSHI IWASE, KAZUO KOGA, CHIHIRO MIWA, and KINSAKU INAMURA In Japan Society of Aerospace and Environmental Medicine, Japanese Journal of Aerospace and Environmental Medicine, Vol. 30, No. 2 p 63-69 1 Jun. 1993 In JAPANESE See also A93-55328 Avail: CASI HC A02/MF A01

To clarify the effects of microgravity on sympathetic nerve response to muscular exercise, Muscle Sympathetic nerve Activity (MSA) was recorded from the tibial or peroneal nerve microneurographically during Static Handgrip (SHG) exercise in a subject with a 20 degree head up tilt position under weightlessness simulated by water immersion (WET) and during dry condition (DRY). At the resting condition, MSA burst rate, which was .4 bursts/ min in DRY, was strongly suppressed by 38 percent (3.6 bursts/min) of DRY under WET. This change was significant. Static handgrip increased MSA burst rate, 10.3 bursts/min in DRY and 10.7 bursts/ min in WET at the second minute of SHG, while it showed insignificant change at the first minute period of SHG (-1.2 bursts/min in DRY and -1.7 in WET). The difference in delta in MSA burst rate during SHG between DRY and WET was insignificant. However, an absolute value of MSA burst rate during the second minute of SHG was higher in DRY (19.7 bursts/min) than that in WET (14.3 bursts/min). These results indicated that the MSA responsiveness to static muscle contraction was not altered under simulated weightlessness

condition, but the level of MSA was significantly suppressed at resting condition and during muscular contraction. Thus the strong suppression of sympathetic outflow to the skeletal muscle under microgravity may be related, at least in part, to reduced adaptation of skeletal muscle function and the mechanism of muscular atrophy under microgravity.

Author (NASDA)

N94-29919# Federal Aviation Administration, Oklahoma City, OK. Civil Aeromedical Inst.

TOXICITY OF CARBON MONOXIDE-HYDROGEN CYANIDE GAS MIXTURES: EXPOSURE CONCENTRATION, TIME-TO-INCAPACITATION, CARBOXYHEMOGLOBIN, AND BLOOD CYANIDE PARAMETERS Final Report

DONALD C. SANDERS, ARVIND K. CHATURVEDI, BOYD R. ENDECOTT, ROXANE M. RITTER, and NGOCOANH VU Apr. 1994 13 p

(DOT/FAA/AM-94/7) Avail: CASI HC A03/MF A01

During aircraft interior fires, carbon monoxide (CO) and hydrogen cyanide (HCN) are produced in sufficient amounts to cause incapacitation and death. Time-to-incapacitation (t(sub i)) is a practical parameter for estimating escape time in fire environments. Exposures to CO-HCN mixtures have demonstrated that these gases have additive effects (producing shorter times to incapacitation), but the resulting concentrations of carboxyhemoglobin (COHb) and blood cyanide (CN(sup -)) at incapacitation are not well defined. These undefined relationships between COHb and blood CN(sup -) levels and the onset of incapacitation make the interpretation of postmortem levels difficult for medical accident investigators. To explore these relationships, t(sub i) was determined in laboratory rats exposed to 2 CO-HCN mixtures consisting of CO and HCN concentrations that produce 5- and 35-min t(sub i) in individual gas exposures; COHb and blood CN(sup -) concentrations were determined at incapacitation. In the high concentration CO-HCN mixture, the resultant t(sub i) was shortened from 5 min to 2.6 min; COHb dropped from 81 percent to 55 percent and CN(sup -) from 2.3 mu g/mL to 1.1 mu g/mL. At the lower concentration CO-HCN mixture, where the resultant t(sub i) was reduced from 35 min to 11.1 min, COHb dropped from 71 percent to 61 percent and blood CN(sup -) decreased from 4.2 mu g/mL to 1.1 mu g/mL. Comparison of the COHb and blood CN(sup -) values with the values from our single gas exposure studies indicated that any alteration of the uptake of either gas in blood by the presence of the other was minimal. These findings suggest that changes in COHb and blood CN(sup -) may not be directly correlated with the onset of incapacitation and that postmortem blood levels should be carefully evaluated, particularly when both gases are present in fire victims. Author

N94-30028# Grenoble-1 Univ. (France). Techniques de l'Imagerie, de la Modelisation et de la Cognition.

COMPUTER ASSISTED MEDICAL INTERVENTIONS: APPLICATION TO CONFORMAL RADIOTHERAPY

L. BRUNIE, P. CINQUIN, L. DESBAT, N. LAIEB, Y. MENGUY, S. LAVALLEE, J. TROCCAZ, P. VASSAL, M. BOLLA, A. DUSSERRE et al. Jun. 1993 30 p

(RR-912-I; ETN-94-95000) Avail: CASI HC A03/MF A01

Requirements and results of conformal external radiotherapy of prostatic carcinoma are presented. A system which achieves a high overall accuracy in the delivery of the prostatic boost is described. This system is based on the use of '2.5D' ultrasonic images for measuring the actual position of the prostate just before irradiation. Since these images are registrated with preoperative (computer tomography (CT) or magnetic resonance imaging) images, the position and orientation of the planning target volume is computed with respect to the irradiation system, and can be corrected accordingly. A second paper refers to the accurate repositioning of a patient with respect to CT images, which is essential for high precision radiotherapy. It is shown the intraradiotherapy portable imaging devices images may be automatically registered with three dimensional presession examinations, thus enabling an automatic adjustment of positioning.

N94-30029# Grenoble-1 Univ. (France). Techniques de l'Imagerie, de la Modelisation et de la Cognition.

CONFORMAL EXTERNAL RADIOTHERAPY OF PROSTATIC CARCINOMA: REQUIREMENTS AND PRELIMINARY RESULTS J. TROCCAZ, Y. MENGUY, M. BOLLA, P. CINQUIN, P. VASSAL, N. LAIEB, L. DESBAT, A. DUSSERRE, and S. DALSOGLIO In its Computer Assisted Medical Interventions: Application to Conformal Radiotherapy 13 p Jun. 1993 Sponsored by Digital Equipment Corp., and Siemens

Avail: CASI HC A03/MF A01

The aim of conformal radiotherapy is to deliver with a high precision a specific dose (which may be a high dose) to a planning target volume, while concurrently irradiating as little as possible healthy tissue and organs at risks. Radiation therapy may suffer from a number of problems that result in both over or undersizing the irradiation fields, simplifying the irradiation ballistics, and delivering an insufficient tumoral dose (to spare critical organs and reduce toxicity). One of these problems lies in the accurate positioning of the planning target volume with respect to the irradiation system, thence in the correct execution of the ballistics. A system aiming at achieving a higher overall accuracy in the delivery of prostatic boost for carcinoma of the prostate is described. The system is based on the use of '2.5D' ultrasonic images for measuring the actual position of the prostate just before the irradiation. Since these images are registrated with preoperative (computed tomography or magnetic resonance imaging) images, the position and orientation of the planning target volume is computed with respect to the irradiation system, and can be corrected accordingly.

N94-30030# Grenoble-1 Univ. (France). Techniques de l'Imagerie, de la Modelisation et de la Cognition.

PRE- AND INTRA-RADIOTHERAPY MULTIMODAL IMAGE REGISTRATION: PRINCIPLES AND FIRST EXPERIMENTS LIONEL BRUNIE, STEPHANE LAVALLEE, JOCELYNE TROCCAZ, PHILIPPE CINQUIN, and MICHEL BOLLA In its Computer Assisted Medical Interventions: Application to Conformal Radiotherapy 16 p Jun. 1993 Sponsored by Digital Equipment Corp., and Safir-Groupe SEM

Avail: CASI HC A03/MF A01

Accurate repositioning of the patient with respect to computer tomography (CT) images is essential for high precision radiotherapy. It is shown that intraradiotherapy portable imaging device images may be automatically registered with three dimensional presession examinations (typically morphological images like CT or magnetic resonance images), thus enabling an automatic adjustment of the planned strategy to the actual positioning of the patient. Based on computer vision techniques, the principles of this new method of multimodal image registration is presented, and the first experiments with a model are analyzed.

N94-30185# Weizmann Inst. of Science, Rehovoth (Israel). Dept. of Physics.

CHARACTERISTICS OF SECONDARY ELECTRON EMISSION FROM CSI INDUCED BY X RAYS WITH ENERGIES UP TO 100 KEV

A. GIBREKHTERMAN, A. AKKERMAN, A. BRESKIN, and R. CHECHIK Jul. 1993 16 p

(DE94-608422; WIS-PH-93-60) Avail: CASI HC A03/MF A01 (US Sales Only)

Our microscopic model for low energy electron interaction in alkali-halides was used to simulate secondary electron emission from CsI, induced by X-rays of energies up to 100 keV. The integral 'current' and 'pulse' yields were calculated as a function of the X-ray energy, CsI convertor thickness and angle of incidence. We observed a decrease in true low energy (less than 50 eV) secondary electron yields at increasing X-ray energies and discuss the effectiveness of CsI convertors coupled to gaseous electron multipliers developed for fast, high resolution X-ray imaging.

N94-30453*# National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX.

MICROENCAPSULATION OF ANTI-TUMOR, ANTIBIOTIC AND THROMBOLYTIC DRUGS IN MICROGRAVITY

DENNIS R. MORRISON, BENJAMIN MOSIER, and JOHN CASSANTO In NASA, Washington, Technology 2003: The Fourth National Technology Transfer Conference and Exposition, Volume 1 p 117-126 Feb. 1994

Avail: CASI HC A02/MF A04

Encapsulation of cytotoxic or labile drugs enables targeted delivery and sustained release kinetics that are not available with intravenous injection. A new liquid-liquid diffusion process has been developed for forming unique microcapsules that contain both aqueous and hydrocarbon soluble drugs. Microgravity experiments, on sounding rockets (1989-92) and Shuttle missions STS-52 (1992) and STS-56 (1993) using an automated Materials Dispersion Apparatus, produced multi-lamellar microcapsules containing both Cis-platinum (anti-tumor drug) and iodinated poppy seed oil (a radiocontrast medium), surrounded by a polyglyceride skin. Microcapsules formed with amoxicillin (antibiotic) or urokinase (a clot dissolving enzyme), co-encapsulated with IPO, are still intact after two years. Microcapsules were formed with the drug so concentrated that crystals formed inside. Multi-layered microspheres, with both hydrophobic drug compartments, can enable diffusion of complementary drugs from the same microcapsule, e.g. antibiotics and immuno-stimulants to treat resistant infections or multiple fibrinolytic drugs to dissolve emboli. Co-encapsulation of enough radio-contrast medium enables oncologists to monitor the delivery of anti-tumor microcapsules to target tumors using computerized tomography and radiography that would track the distribution of microcapsules after release from the intra-arterial catheter. These microcapsules could have important applications in chemotheraphy of certain liver, kidney, brain and other tumors. Author

N94-30455*# National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX.

DUAL USE OF IMAGE BASED TRACKING TECHNIQUES: LASER EYE SURGERY AND LOW VISION PROSTHESIS

RICHARD D. JUDAY In NASA, Washington, Technology 2003: The Fourth National Technology Transfer Conference and Exposition, Volume 1 p 131-137 Feb. 1994

Avail: CASI HC A02/MF A04

With a concentration on Fourier optics pattern recognition, we have developed several methods of tracking objects in dynamic imagery to automate certain space applications such as orbital rendezvous and spacecraft capture, or planetary landing. We are developing two of these techniques for Earth applications in real-time medical image processing. The first is warping of a video image, developed to evoke shift invariance to scale and rotation in correlation pattern recognition. The technology is being applied to compensation for certain field defects in low vision humans. The second is using the optical joint Fourier transform to track the translation of unmodeled scenes. Developed as an image fixation tool to assist in calculating shape from motion, it is being applied to tracking motions of the eyeball quickly enough to keep a laser photocoagulation spot fixed on the retina, thus avoiding collateral damage.

N94-30456*# Jet Propulsion Lab., Calif. Inst. of Tech., Pasadena. ANALYSIS AND AN IMAGE RECOVERY ALGORITHM FOR ULTRASONIC TOMOGRAPHY SYSTEM

MICHAEL Y. JIN In NASA, Washington, Technology 2003: The Fourth National Technology Transfer Conference and Exposition, Volume 1 p 138-145 Feb. 1994

Avail: CASI HC A02/MF A04

The problem of an ultrasonic reflectivity tomography is similar to that of a spotlight-mode aircraft Synthetic Aperture Radar (SAR) system. The analysis for a circular path spotlight mode SAR in this paper leads to the insight of the system characteristics. It indicates that such a system when operated in a wide bandwidth is capable of achieving the ultimate resolution; one quarter of the wavelength of the carrier frequency. An efficient processing algorithm based on the exact two dimensional spectrum is presented. The results of simulation indicate that the impulse responses meet the predicted

resolution performance. Compared to an algorithm previously developed for the ultrasonic reflectivity tomography, the throughput rate of this algorithm is about ten times higher.

Author

N94-30457*# National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL.

COMPOSITE REDESIGN OF OBSTETRICAL FORCEPS

SETH W. LAWSON and STAN S. SMELTZER In NASA, Washington, Technology 2003: The Fourth National Technology Transfer Conference and Exposition, Volume 1 p 146-150 Feb. 1994 Avail: CASI HC A01/MF A04

Due to the increase in the number of children being born recently, medical technology has struggled to keep pace in certain areas. In these areas, particular needs have arisen to which the subject of this paper is directed. In the area of obstetrics, the forceps design and function has remained relatively unchanged for a number of years. In an effort to advance the technology, NASA Marshall Space Flight Center has been asked by the obstetrical community to help in a redesign of the obstetric forceps. Traditionally the forceps design has been of tubular stainless steel, constructed in two halves which interlock and hinge to provide the gripping force necessary to aid in the delivery of an infant. The stainless steel material was used to provide for ease of cleaning and sterilization. However, one of the drawbacks of the non-flexible steel design is that excessive force can be placed upon an infants head which could result in damage or injury to the infant. The redesign of this particular obstetric tool involves applying NASA's knowledge of advanced materials and state of the art instrumentation to create a tool which can be used freely throughout the obstetrics community without the fear of injury to an infant being delivered.

N94-30458*# National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX.

DEVELOPMENT OF THE NASA/BAYLOR VAD

G. S. ABER, J. W. AKKERMAN, R. J. BOZEMAN, JR., D. R. SAUCLER, J. W. BACAK, P. A. SVEJKOVSKY, G. A. DAMM, K. MIZUGUCHI, G. P. NOON, Y. NOSE et al. In NASA, Washington, Technology 2003: The Fourth National Technology Transfer Conference and Exposition, Volume 1 p 151-157 Feb. 1994 Avail: CASI HC A02/MF A04

A cooperative effort between the NASA/Johnson Space Center (JSC) and the Baylor College of Medicine (BCM) has been underway since 1988 to develop a long-term implantable Ventricular Assist Device (VAD). The VAD is intended to boost the cardiac output of patients with deteriorated cardiac function. For many of these patients, the best alternative is heart transplantation. Heart transplantation is a complex and expensive procedure and usually requires a long waiting period for a donor heart. The condition of the patient often deteriorates during this waiting period which complicates the pre and post-operative care. Because of these factors, the need for a long-term implantable VAD for use as a bridge-totransplant device or as a permanent assist device has become the focus of much research. The need for a VAD has been estimated at 50,000 to 60,000 patients per year in the United States alone. A device which satisfies all the system performance and reliability requirements has yet to be achieved. However, the development of the NASA/Baylor VAD has progressed to a state in which commercial viability can being to be considered. The device is small, simple, efficient and reliable which meets all requirements for a totally implantable VAD. Author

N94-30459*# Jet Propulsion Lab., California Inst. of Tech., Pasadena.

A FUZZY LOGIC CONTROLLER FOR HORMONE ADMINISTRATION USING AN IMPLANTABLE PUMP

L. STEPHEN COLES and GEORGE H. WELLS, JR. In NASA, Washington, Technology 2003: The Fourth National Technology Transfer Conference and Exposition, Volume 1 p 158-167 Feb. 1994

Avail: CASI HC A02/MF A04

This paper describes the requirements for a Fuzzy Logic Controller for the physiologic administration of hormones by means of a FDA-approved surgically implantable infusion pump. Results of a LabVIEW computer simulation for the administration of insulin for diabetic adult patients as well as human growth hormone for pediatric patients are presented. A VHS video tape of the simulation in action has been prepared and is available for viewing. Author

N94-30460*# Army Armament Research, Development and Engineering Center, Watervliet, NY. Benet Labs.

MONITOR FOR STATUS EPILEPTICUS SEIZURES

MARK JOHNSON and THOMAS SIMKINS In NASA, Washington, Technology 2003: The Fourth National Technology Transfer Conference and Exposition, Volume 1 p 168-175 Feb. 1994

Avail: CASI HC A02/MF A04

This paper describes the sensor technology and associated electronics of a monitor designed to detect the onset of a seizure disorder called status epilepticus. It is a condition that affects approximately 3-5 percent of those individuals suffering from epilepsy. This form of epilepsy does not follow the typical cycle of startpeak-end. The convulsions continue until medically interrupted and are life threatening. The mortality rate is high without prompt medical treatment at a suitable facility. The paper describes the details of a monitor design that provides an inexpensive solution to the needs of those responsible for the care of individuals afflicted with this disorder. The monitor has been designed as a cooperative research and development effort involving the United States Army Armament Research, Development, and Engineering Center's Benet Laboratories (Benet) and the Cerebral Palsy Center for the Disabled (Center), in association with the Department of Neurology at Albany Medical College (AMC). Benet has delivered a working prototype of the device for field testing, in collaboration with Albany Medical College. The Center has identified several children in need of special monitoring and has agreed to pursue commercialization of the device.

N94-30970# Ecole Nationale Superieure des Telecommunications, Paris (France). Groupe Image.

USE OF SNAKES TO LINK EDGE POINTS TO CREATE LEFT VENTRICULAR BOUNDARIES IN ECHOCARDIOGRAPHIC IMAGES

IAIN HUNTER (Strathclyde Univ., Glasgow, Scotland.) and HENRI MAITRE 23 Sep. 1993 37 p

(Contract SERC-92314900) (ISSN 0751-1345)

(TELECOM-93-D-016; ETN-94-95976) Avail: CASI HC A03/ MF A01

The use of snakes to link edge points in left ventricular echocardiographic images to create the epicardial and endocardial boundaries is described. The edge points are created by an artificial neural network based radial search algorithm. This acts as a preprocessing stage for the snake and greatly reduces the size and complexity of the snake's external energy map. The edge points are given in terms of their polar coordinates, and the snake is used to interpolate where no edge points are present and to select the correct edge points for that boundary. The minimization of the snake's energy function by both simulated annealing and dynamic programming is studied, with dynamic programming giving better performance both in terms of accuracy and speed.

N94-30978 Ecole Nationale Superieure des Telecommunications, Paris (France). Dept. Images.

ELEMENTS FOR THE RECOGNITION OF THREE DIMENSIONAL DEFORMABLE SHAPES: APPLICATION TO BIOMEDICAL IMAGERY Ph.D. Thesis [ELEMENTS POUR LA RECONNAISSANCE DE FORMES TRIDIMENSION-NELLES DEFORMABLES: APPLICATION A L'IMAGERIE BIOMEDICALE]

NICOLAS ROUGON 1993 248 p In FRENCH Limited Reproducibility: More than 20% of this document may be affected by

microfiche quality (ISSN 0751-1353)

(TELECOM-93-E-006: ETN-94-95981) Avail: CASI HC A11

The kinematics of closed nonsingular deformable manifolds with a codimension of one when their local instantaneous evolution obeys a first order dynamics is presented. A mathematical characterization of the complex phenomena modifying differential and integral properties of nonsingular manifolds during an arbitrary deformation is given. In particular, reactive diffusive propagative processes controlling the evolution of curvature features along the manifold are identified. A multidimensional deformable model, called a membrane/thin plate stabilizer under pressure or g-snake, is developed. Dealing with 2D (two dimensional) sequences or 3D images consisting of parallel slices, a model of 2D coupled g-snakes which preserves the intrinsic geometry of data is developed. To extend the scope of g-snakes to highly noisy imaging, a cooperation between deformable manifolds and regional filtering processes is introduced; the concept of 'deformable marker' for segmentation, focused on the 'interaction' process between a deformable model and image data. Exploiting controlled morphological techniques developed in mathematical morphology, a specific interaction process based on numerical geodesic reconstruction and automated initialization procedures is proposed. To increase segmentation accuracy, the 2D q-snake model is further generalized resulting in a fully adaptive deformable model which is invariant with respect to rigid transformations within the image space. The models were applied to segmentation and global tracking of deformable anatomical structures in medical images from various modalities within the framework of quantitative functional studies. **FSA**

N94-31195# Ecole Nationale Superieure des Telecommunications, Paris (France).

INTERACTIVE RECONSTRUCTION OF ANATOMICAL STRUCTURES WITH FREE-FORM SURFACES Ph.D. Thesis [RECONSTRUCTION INTERACTIVE **D'ELEMENTS** ANATOMIQUES A L'AIDE DE SURFACES DE FORME LIBRE] RENE EBEL 1993 318 p In FRENCH (ISSN 0751-1353)

(TELECOM-93-E-002; ETN-94-95980) Avail: CASI HC A14/

An approach to the mathematical description of the surface of a three dimensional (3D) reconstruction of an anatomical structure from a set of 3D data point samples is described. The approach could be compared to CAGD (Computer Aided Geometric Design) insofar as it is based on interactivity and on the use of free form patches to describe the surfaces. The advantage of this approach lies in the quality of the surfaces obtained (G(sup 1) continuity or tangent plane continuity is satisfied) and in the possibility of performing reconstructions from arbitrary sets of 3D points. It is assumed that the elements to be reconstructed are smooth and that they are simple enough to enable interactivity. Reconstruction of treelike structures such as blood vessels are addressed, distinguishing three constituent elements: tubular parts, 'caps,' and 'junctions'. For each one, a particular method of reconstruction is developed. The modeling of a tubular element begins with an interactive step of estimation of axial positions. The next steps consist of automatically fitting a right generalized cylinder on the data by an iterative optimization technique. The resulting surface is composed of B spline patches. Elements like 'caps' and 'junctions' are created automatically, by the prolongation of the tubular surface with Bezier-Gregory patches. The reconstruction method proposed for tubular surfaces is extended to organs with more general forms. This time, the user is requested to associate a predefined polyhedral structure with the data. After this interactive operation, the computer produces automatically a surfacic approximation of the data by means of triangular and rectangular Bezier-Gregory patches joined with G(sup 1) continuity. **ESA**

N94-31323# California Univ., Berkeley. Lawrence Berkeley Lab. HYDROGENATED AMORPHOUS SILICON (A-SI:H) BASED

GAMMA CAMERA: MONTE CARLO SIMULATIONS

H. LEE, J. S. DREWERY, W. S. HONG, T. JING, S. N. KAPLAN, A. MIRESHGHI, and V. PEREZ-MENDEZ Jan. 1994 12 p Presented at the SPIE Medical Imaging Conference, Newport Beach, CA, 13-18 Feb. 1994

(Contract DE-AC03-76SF-00098)

(DE94-007042; LBL-35050; CONF-940254-1) Avail: CASI HC A03/ MF A01

A new gamma camera using a-Si:H photodetectors has been designed for the imaging of heart and other small organs. In this new design, the photomultiplier tubes and the position sensing circuitry are replaced by 2-D array of a-Si:H p-i-n pixel photodetectors and readout circuitry which are built on a substrate. Without the photomultiplier tubes this camera is light weight, hence, it can be made portable. To predict the characteristics and the performance of this new gamma camera, we did Monte Carlo simulations. In the simulations, 128 x 128 imaging array of various pixel sizes were used. Tc-99m (140keV) and TI-201) (70keV) were used as radiation sources. From the simulations, we could obtain the resolution of the camera and the overall system, and the blurring effects due to scattering in the phantom. Using the Wiener filter for image processing, restoration of the blurred image could be achieved. Simulation results of a-Si:H based gamma camera were compared with those of a conventional gamma camera. DOE

N94-31363# Clemson Apparel Research, Pengleton, SC. MINIMIZATION OF CARPAL TUNNEL SYNDROME Final Report, 12 Dec. 1989 - 30 Jun. 1993

ED HILL 13 Jan. 1994 26 p

(Contract DLA900-87-D-0017)

(AD-A276409) Avail: CASI HC A03/MF A01

The objectives of this report was to develop an attachment and method to reduce the risk of Carpal Tunnel Syndrome on a side seam operation called French Felling. In addition, the research assisted in identifying the cause of the high incidence of CTS in French Felling operators and a workstation device was designed to minimize its occurrence.

53 **BEHAVIORAL SCIENCES**

Includes psychological factors; individual and group behavior; crew training and evaluation; and psychiatric research.

N94-28860# Carnegie-Mellon Univ., Pittsburgh, PA. Dept. of Computer Science.

NON-INTRUSIVE GAZE TRACKING USING ARTIFICIAL **NEURAL NETWORKS**

SHUMEET BALUJA and DEAN POMERLEAU 5 Jan. 1994 14 p (Contract N00014-93-1-0806)

(AD-A275186; CMU-CS-94-102) Avail: CASI HC A03/MF A01

An artificial neural network based gaze tracking system which can be customized to individual users was developed. A three layer feedforward network, trained with standard error back propagation. is used to determine the position of a user's gaze from the appearance of the user's eve. Unlike other gaze trackers, which normally require the user to wear cumbersome headgear or to use a chin rest to ensure head mobility, the system is entirely nonintrusive. Currently, the best intrusive gaze tracking systems are accurate to approximately 0.75 degrees. An accuracy of 1.5 degrees was achieved with the nonintrusive system, while allowing head mobility. In its current implementation, the system works at 15 Hz. An empirical analysis of the performance of a large number of artificial neural network architectures is presented. Suggestions for further explorations for neurally based gaze trackers are provided, and are related to other similar artificial neural network applications such as autonomous road following. DTIC

N94-28887# Air Force Test Pilot School, Edwards AFB, CA. HUMAN PILOT RESPONSE DURING SINGLE- AND MULTI-AXIS TRACKING TASKS Final Report, 8-11 Oct. 1993 CRAIG R. EDKINS, BENJAMIN J. COFFEY, JOHN KRUZINAUSKAS, JR., DARCY GRANLEY, and MARY MCNEELY Dec. 1993 193 p

(AD-A275080; AFFTC-TLR-93-41) Avail: CASI HC A09/MF A03

This report presents the results of a limited evaluation of human pilot response during single and multiaxis tracking tasks. A five member team from the USAF Test Pilot School conducted this evaluation at Buffalo, New York, from 8-11 October 1993. Five sorties totalling 7.6 hours were flown in the Calspan variable stability Lear 2 aircraft. Ground simulations in Lear 2 were also performed. Four different pitch and four different roll dynamics were evaluated using three different single and multiaxis tracking tasks. For each set of dynamics, primary pilot response parameters were recorded and examined using Fourier transform analysis in an attempt to provide a data base for pilot model development and validation. Pilot comments and Cooper-Harper ratings were also recorded. This report serves as a guide for flight test data and gives an initial look at the test results.

N94-29027 Massachusetts Inst. of Tech., Cambridge. STRATEGIES TO SUSTAIN AND ENHANCE PERFORMANCE IN STRESSFUL ENVIRONMENTS Final Report, 15 Dec. 1990 -15 Dec. 1992

RICHARD J. WURTMAN, ANDREW B. DOLLINS, HARRIS B. LIEBERMAN, and HARRY J. LYNCH 14 Dec. 1993 83 p Limited Reproducibility: More than 20% of this document may be affected by microfiche quality

(Contract AF-AFOSR-0125-90)

(AD-A275223; AFOSR-94-0038-TR) Avail: CASI HC A05

This report contains the five manuscripts (one published, two in-press, one in-review, and one in-preparation) and six published abstracts completed during the three year grant period. These include descriptions of the four original research projects completed during the grant period. STUDY 1 was designed to test the effects of illumination on human noctumal serum melatonin levels and performance. Results indicate that overnight exposure to 300, 1500, or 3000 lux of light significantly diminished serum melatonin levels in a dose-dependent manner. Performance on vigilance, reaction time, and other tasks deteriorated throughout the night, consistent with known circadian variations in these parameters, but independent of ambient light intensity and circulating melatonin levels. DTIC

N94-29154# City Univ. of New York, NY.

TEMPORAL AND QUALITATIVE DECOMPOSITION OF PLAUSIBLE REASONING Final Technical Report, 15 Mar. 1991 - 15 Jun. 1993

DAVID A. SWINNEY and EDWARD E. SMITH 15 Dec. 1993 12 p

(AD-A275073; AFOSR-94-0002TR) Avail: CASI HC A03/MF A01

The goal of this work is to detail the temporal course of

(Contract AF-AFOSR-0225-91)

information integration during plausible reasoning, with a focus on: (1) the component processes in terms of their time-courses and information content; (2) the degree to which reasoning consists of 'modular' (autonomous, independent, informationally encapsulated) stages of processing; and (3) how components of reasoning are drawn together to eventuate in a single answer to a reasoning problem. This work has involved three relevant lines of inquiry: (1) Conceptual Combination. The set of studies in this area demonstrated that claims by Springer and Murphy to the effect that conceptual combination takes place such that initial components of the combination are not activated and processed separately, are not supported. (2) Reasoning and Categorization. These studies have demonstrated that evidence from Rips that categorization can take

place based on reasoning as well as on similarity, seems to be true,

but only under conditions where the informational basis for categorization is quite sparse and when the subject is aware that his/her

basis for the categorization must be defended. (3) Modularity and

Discourse. A claim by Marslen-Wilson and Tyler purporting to demonstrate an important lack of modularity of processing during discourse/sentence comprehension was examined in detail utilizing a more sensitive task. It was demonstrated that modularity between semantic and syntactic information was maintained during this (particularly critical) stage of language processing. (4) Reasoning and Cognition in Neurologically Involved Populations. A series of studies focussing on the role of language in plausible reasoning, studied the degree to which early modular processes are disrupted by brain damage and aging. It was demonstrated that the early cognitive/language processing is robustly modular.

N94-29313# Carnegie-Mellon Univ., Pittsburgh, PA. Dept. of Computer Science.

AN ARCHITECTURALLY-BASED THEORY OF HUMAN SENTENCE COMPREHENSION Ph.D. Thesis

RICHARD L. LEWIS 18 Dec. 1993 259 p (Contract F33615-93-1-1330)

(AD-A275380; CMU-CS-93-226) Avail: CASI HC A12/MF A03

This thesis presents NL-Soar, a detailed computational model of human sentence comprehension that accounts for a broad range of psycholinguistic phenomena. NL-Soar provides in-depth accounts of structural ambiguity resolution, garden path effects, unproblematic ambiguities, parsing breakdown on difficult embeddings, acceptable embeddings, immediacy of interpretation. and the time course of comprehension. The model explains a variety of both modular and interactive effects, and shows how learning can affect ambiguity resolution behavior. In addition to accounting for the qualitative phenomena surrounding parsing breakdown and garden path effects, NL-Soar explains a wide range of contrasts between garden paths and unproblematic ambiguities, and difficult and acceptable embeddings: the theory has been applied in detail to over 100 types of structures representing these contrasts, with a success rate of about 90%. The account of real-time immediacy includes predictions about the time course of comprehension and a zero-parameter prediction about the average rate of skilled comprehension. Finally, the theory has been successfully applied to a suggestive range of cross-linguistic examples, including constructions from head-final languages such as Japanese. DTIC

N94-29715# Nagoya Univ. (Japan). Space Medicine Research Center.

A DISCUSSION OF EYE-HEAD COORDINATIVE MOVEMENT UNDER MICROGRAVITY DURING PARABOLIC FLIGHT [PARABORIKKU FURAITO NI YORU TEI JURYOKU KANKYOKA DENO HITO NO TOBU/GANKYU KYOUOU UNDO NO KENTO] KAZUO KOGA In Society of Medical Research for Space Station, The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight p 34-41 Mar. 1993 In JAPANESE

Avail: CASI HC A02/MF A01

The labyrinthus can sense gravity as a mechanical stimulation of statoliths. In addition, some muscles which are always forced to be strained against gravity, baroreceptor and tactor on skin surface, and deep sensitivity of arthrosis can also sense gravity as a secondary information. There is a possibility that visual information may be indirectly related with sensing gravity. This multi-modal sensory is integrated in normal condition, however, the integration may be lost when environment is changed, such as in weightless condition. Therefore, it is meaningful to study man's adaptation to the microgravity by using visually up-down reversing mirror, and to study impression of a person he meets, with up-down position with or without the up-down reversing mirror. It can be predicted that the up-down reversing and front-back reversing have more eccentric cue other than visual sense so that the adaptation will be achieved more smoothly, than right-left reversing. For these reasons, eyehead coordination is going to be examined under microgravity achieved by parabolic flight. The measurement devices necessary for such experiment was discussed. This report explained the potential of parabolic flight, and measuring instrument of head

movement, such as miniaturized three-axis acceleration sensor and optical position sensor.

Author (NASDA)

N94-29716# Toyohashi Univ. of Technology, Aichi (Japan). Information and Computer Sciences.

ANALYSIS OF VARIOUS BIOLOGICAL ACTIVITY PARAMETERS DURING PARABOLIC FLIGHT [PARABORIKKU FURAITO NI OKERU KAKUSHU SEITAI SHINGO NO KAISEKI] SHIRO USUI and YUTAKA HIRATA In Society of Medical Research for Space Station, The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight 942-47 Mar. 1993 In JAPANESE Prepared in cooperation with NASDA, Tokyo, Japan; the Research Inst. of Environmental Medicine, Nagoya Univ., Aichi, Japan; and Nihon Univ., Tokyo, Japan Avail: CASI HC A02/MF A01

Whether a man can keep vital activity in weightless condition largely depends on homeostasis, and the homeostasis is controlled by autonomic nervous system. Because pupillary response is also related with autonomic nervous system, it has been used as an index of autonomic nervous activity. In this study, the pupillary response as well as other biological activity parameters were measured in order to examine whether the response is useful for monitoring autonomic nervous activity during microgravity achieved by parabolic flight. As a result, heart rate, blood pressure and spirogram changed according to the change of gravity, and psychogalvanic response showed mental tension during parabolic flight. For pupillary response, diameter of the pupil, degree of miosis, delay of response time, maximum miosis velocity and maximum mydriasis velocity were determined as parameters. All of these parameters were changed according to change of gravity, which implies that these parameters can indicate autonomic nervous activity under Author (NASDA) microgravity.

N94-29867# Kyorin Univ., Tokyo (Japan). Dept. of Physiology. PSYCHOPHYSIOLOGICAL STUDY ON THE EFFECTS OF CO-EXISTENCE OF LINES FOR DETECTING DOT TARGET [TEN SHIHYO NO SHININSE! NI OYOBOSU KINBO SENBUN NO EIKYO NI KANSURU SHINRI SEIRIGAKUTEK! KENKYU]

KIYOSHI MIZUMOTO In Japan Society of Aerospace and Environmental Medicine, Japanese Journal of Aerospace and Environmental Medicine, Vol. 30, No. 2 p 81-91 1 Jun. 1993 In JAPANESE See also A93-55330

Avail: CASI HC A03/MF A01

The following two experiments were carried out in normal subjects to verify the difficulty to detect the small target near the frame of windshield in the airplane: (1) using a tachistoscope, small black dot stimulus was exposed for 10, 30, 50, 70 and 0 msec at either side of and at either of 1.83, 2.24 and 2.65 degrees from the central fixation point with or without a pair of vertical lines. Nine subjects pushed a key to answer the side of the dot exposed. The correct response rates increased while the reaction time decreased with the exposure time. Detectability of the dot stimulus near lines was poorer than that in the white background, especially for 0 msec stimulus exposure time; and (2) visual event-related potentials in response to the dot stimuli exposed for 0 msec were recorded from six scalp electrode sites in eight subjects. Two dots were exposed simultaneously at both sides of the fixation point with or without lines. The position of dots was 1.83 and 2.65 degrees and lines 1.32 and 3.15 degrees apart from the fixation point respectively. Dots were exposed 128 times (50 percent) randomly per each condition. Subjects were directed to count the number of the exposure with dots. The difference of the amplitude of P300 components between dot exposure and no-exposure was largest when the dots were exposed without lines. These results suggest the difficulty to detect targets near the frame of aircraft windshield. Author (NASDA)

N94-29918# Federal Aviation Administration, Oklahoma City, OK. Civil Aeromedical Inst.

SCANNING AND MONITORING PERFORMANCE: EFFECTS OF THE REINFORCEMENT VALUES OF THE EVENTS BEING

MONITORED Final Report

P. G. RASMUSSEN and A. M. REVZIN Apr. 1994 9 p (DOT/FAA/AM-94/8)

Avail: CASI HC A02/MF A01

We formulated a hypothesis suggesting that operators could make scanning and monitoring errors if they tended to concentrate on a 'high-value' display sub-area while ignoring 'low-value' problems elsewhere on the display. Such 'data' would have application to Air Traffic Control Specialist (ATCS) jobs. We tested the hypothesis in an experiment rewarding good performance in a laboratory task. Subjects monitored two visual display 'work areas' with defined task difficulty. In the high-value work area, each error cost the subjects four or ten times as much as in the low-value work area. The data obtained suggest that differing task error penalties, or reinforcement values, can induce a greater than usual frequency of errors in some subjects. Rewarding good performance in two-work area tests without differing error penalties did not induce significant error rate differences, nor did such rewards significantly affect total task performance levels. This was true even in tests where such differential attention could benefit the subject's overall performance score, thereby increasing subject's performance bonus. However, about 15 percent of our subjects showed a marked tendency to concentrate their attention on a display sub-area having high-value events while periodically ignoring events elsewhere on the display. Such information may be useful in reducing the frequency of scanning errors by revising training protocols or personnel selection criteria.

N94-30969 National Aerospace Lab., Amsterdam (Netherlands).

SPECTRAL ANALYSIS OF HEART RATE AND PSYCHOLOGICAL STATE: A REVIEW OF ITS VALIDITY AS A WORKLOAD INDEX

P. G. A. M. JORNA (Institute for Perception RVO-TNO, Soesterberg, Netherlands.) 25 Feb. 1993 25 p Submitted for publication Limited Reproducibility: More than 20% of this document may be affected by microfiche quality

(AD-B179387; NLR-TP-93034-U; ETN-94-95975) Avail: CASI HC A03

Background information on concepts of mental workload and stress and the possibility of indexing them by means of spectral analysis of heart rate is presented. A literature review of practical implementations of the technique in laboratory and field studies is provided with the purpose of evaluating its utility as a tool in the study of mental workload and stress.

N94-31243# Southeastern Center for Electrical Engineering Education, Inc., Saint Cloud, FL.

SITUATIONAL AWARENESS: A FEASIBILITY INVESTIGATION OF NEAR-THRESHOLD SKILLS DEVELOPMENT Final Report, 27 Jul. 1987 - 31 May 1991

GRANT E. SECRIST and BRYCE O. HARTMAN Jan. 1994 75 p (Contract F33615-87-C-0614)

(AD-A276467; AL/AO-TR-1994-0002) Avail: CASI HC A04/MF A01 A decisive capability possessed by superior fighter-attack pilots is keen situational awareness. In this report, we examine the trainability of near-threshold information acquisition and processing skills that appear to be vital to heightened situational awareness. The investigation served two purposes: (1) determine the effects or near-threshold training on target detection, recognition, and identification performance; and (2) assess the general transfer of this training to velocity discrimination and peripheral vision two-flash threshold performance. Ten flight-qualified AFROTC cadets served as trainees. Each trainee received 5,040 near-threshold training trials over five consecutive days. The findings indicate that nearthreshold skills are trainable. Group and individual learning curves reflected consistent improvement in target detection, recognition, and identification accuracy at target durations down to 33 ms. Statistically significant differences were found between group baseline and post-training performance.

N94-31291# Naval Command, Control and Ocean Surveillance Center, San Diego, CA. Research, Development, Technology and

TOWARDS SIMPLICITY: NOISE AND COOPERATION IN THE **PERFECT INTEGRATOR Professional Paper**

A. R. BULSARA Feb. 1994 19 p

(AD-A276256) Avail: CASI HC A03/MF A01

Neuroscientists have known for decades that sensory information is encoded in the intervals between the action potentials or spikes characterizing neural firing events. Statistical analyses of experimentally obtained spike trains have shown the existence of a significant random component in the inter-spike intervals. There has been speculation, of late, that the noise may actually facilitate the transmission of sensory information; certainly there exists evidence that noise in networks of neurons can dynamically alter the properties of the membrane potential and the time constants. This paper describes the recent rekindling of interest in the Stochastic Resonance phenomenon leading to speculation that such nonlinear cooperative effects may occur naturally in living systems. DTIC

54

MAN/SYSTEM TECHNOLOGY AND LIFE SUPPORT

Includes human engineering; biotechnology; and space suits and protective clothing.

N94-28861# Klein Assoiciates, Inc., Fairborn, OH. DESIGNING FOR PERFORMANCE: A COGNITIVE SYSTEMS ENGINEERING APPROACH TO MODIFYING AN AWACS HUMAN COMPUTER INTERFACE Final Report, Jan. 1991 -Feb. 1993

DAVID W. KLINGER, STEPHEN J. ANDRIOLE, LAURA G. MILITELLO, LEONARD ADELMAN, and GARY KLEIN Mar. 1993

(Contract F33615-90-C-0533)

(AD-A275187; AL/CF-TR-1993-0093) Avail: CASI HC A06/MF A02 Cognitive systems engineering (CSE) is primarily a blend of technological opportunities, findings from cognitive research, and cognitive task analysis. Using CSE, we were able to produce an efficient and effective redesign of the AWACS weapons director (WD) station. The revised WD station was tested using 17 WD's. These WD's performed defensive counter air missions with both the current interface and the revised interface. The training of the participants on the revised interface was quite brief (4.5 hours). As a result, the WD's did not achieve the same degree of familiarity or automation with the revised interface that they have with the current interface. Yet, when WD's were using the revised system, their performance improved. This is indicated by an increase in performance for a number of process and outcome measures. Also, a skilled WD provided blind ratings of WD performance. These global ratings were significantly higher for the revised interface. The effectiveness of the revised interface suggests that it is possible to pinpoint cognitive task requirements and to make these the driving factors in a design effort. The use of CSE ray be a feasible aspect of the design process, enabling system developers to achieve a much stronger effectiveness at relatively low cost. DTIC

N94-28902# Naval Health Research Center, San Diego, CA. COMPARISON OF TWO COOL VESTS ON HEAT-STRAIN REDUCTION WHILE WEARING A FIREFIGHTING ENSEMBLE IN A HOT/HUMID ENVIRONMENT Final Report

BRAD L. BENNETT, R. D. HAGAN, K. A. HUEY, C. MINSON, and D. CAIN Jul. 1993 27 p (AD-A275103; NHRC-93-10) Avail: CASI HC A03/MF A01

Understanding the impact of heat strain on the performance of naval personnel has important application to shipboard fire-suppression activities. Firefighting is associated with heat strain as demonstrated by large increases in skin and core temperatures and near maximal heart rates (Duncan et al., 1979; Romet and Frim, 1987; Bennett et al., 1992). These responses can attribute to body heat production caused by wearing 30 to 40 pounds of personnel protection equipment, the physical effort associated with carrying equipment (e.g., fire hose, ventilation fans), and the heat gain due to exposure to high ambient temperature and humidity.

N94-28918# Air Force Inst. of Tech., Wright-Patterson AFB, OH. AN INVESTIGATION OF STEREOPSIS WITH AN/AVS-6 NIGHT VISION GOGGLES AT VARYING LEVELS OF ILLUMINANCE **AND CONTRAST M.S. Thesis**

JEFFREY J. ARMENTROUT 1993 81 p

(AD-A275332; AFIT/CI/CIA-93-160) Avail: CASI HC A05/MF A01 The increased reliance on night operations by the military over the last few decades has led to the development of various night imaging devices. Night vision goggles (NVG's) are one device which have gained widespread use in nighttime helicopter operations. However, rotorcraft accident data have indicated an increased occurrence of 'pilot error' type accidents when NVG's are in use. NVG related accidents often can be linked to extremely poor ambient lighting and contrast conditions during nighttime operations as well as the imaging limitations of the NVG's. Research has shown that NVG's reduce visual acuity and depth perception when compared to unaided daylight viewing conditions. In this study the effects of illumination and contrast on stereoscopic vision with and without AN/AVS-6 goggles were investigated. Stereoacuity was measured using a modified Howard-Dolman apparatus with four levels of illumination and three levels of contrast.

N94-28996# Aerospace Medical Research Labs., Brooks AFB, TX. Crew Systems Directorate.

COMPARATIVE CENTRIFUGE EVALUATION OF THE AIR FORCE ADVANCED TECHNOLOGY ANTI-G SUIT (ATAGS) AND THE NAVY ENHANCED ANTI-G LOWER ENSEMBLE (EAGLE) Final Report, Sep. 1992 - Dec. 1993

JOHN W. BURNS and RONALD C. HILL 30 Dec. 1993 6 p (AD-A275348; AL/CF-PC-1993-0052) Avail: CASI HC A02/MF A01

The centrifuge evaluation of the ATAGS and EAGLE was undertaken to determine which extended coverage anti-G suit would enter engineering and manufacturing development for joint service use. Eight male centrifuge subjects were used. The subjects were wearing either an ATAGS, with or without pressure socks, or an EAGLE. Pressure breathing during G (COMBAT EDGE) was used with all three combinations. The combinations were randomized to eliminate any order effect. The arms of all subjects were wrapped from the wrist to the axilla with 3 in. wide elastic bandage to reduce the possibility that subjects might stop the +G(sub z) exposure for arm pain rather than for fatigue or light loss. GOR, ROR, and 5-9 SACM +G(sub z) profiles were used to compare the suits. Although not significantly different, the average number of 9G plateaus completed for the ATAGS with socks, the ATAGS without socks, and the EAGLE were 8.0, 7.8, and 6.5, respectively. Subject HR, while wearing the ATAGS with pressure socks, was significantly (p = .03) lower than HR while wearing the EAGLE during the 5G plateaus of the 5-9 +G(sub z) SACM. The perceived effort involved in the straining maneuver during the 5-9 SACM with the EAGLE was consistently, but not significantly, greater across the 9G plateaus compared to the ATAGS with pressure socks. However, there was a significant (p = .032) suit/time interaction between the ATAGS with pressure socks and the EAGLE. There was no significant difference

in subject HR or +G(sub z) tolerance between the three G-suit

combinations during the GOR or ROR +G(sub z) exposures.

N94-28997# Krug Life Sciences, Inc., San Antonio, TX. PROCEDURES AND METRICS FOR ANTI-G **EVALUATIONS Interim Report, Nov. 1992 - Nov. 1993** GRADY L. RIPLEY, RICHARDO PEREZ, III, and DANIEL H. BAUER Nov. 1993 5 p

(Contract F33615-92-C-0018)

(AD-A275349; AL/CF-PC-1993-0043) Avail: CASI HC A01/MF A01 The ATAGS (Advanced Technology Anti-G Suit) design pro-

cess initially relied on comments made by human test subjects to subjectively evaluate the effects of design changes on inflation characteristics. A standardized test method was needed to objectively quantify the effects of the design changes and also to compare the inflation characteristics of other anti-G suits. Therefore, a test was designed to measure the filling characteristics of different anti-G suits fitted to a standard mannikin. Several factors had to be considered in developing a test method that was both operationally significant and provided consistently valid data. The factors considered were as follows: don/doff requirements, the effects of evacuation of the anti-G suits prior to testing, mannikin position, and additional life support equipment worn with the anti-G suit. Parameters measured to assess the inflation characteristics were flow rate, fill times, and differential pressures in the suit. DTIC

N94-29029 Southeastern Center for Electrical Engineering Education, Inc., Saint Cloud, FL.

REMOTE CONTROL OF TRANSCRANIAL DOPPLER (TCD) PROBE DURING CENTRIFUGE EXPOSURES UP TO 9 +GZ Final Report, Oct. 1987 - Dec. 1993

ULF I. BALDWIN, PAUL WERCHAN, and TRAVIS EDDY Jan. 1994 6 p Limited Reproducibility: More than 20% of this document may be affected by microfiche quality (Contract F33615-87-D-0609)

(AD-A275253; AL/CF-PC-1993-0046) Avail: CASI HC A02

TCD systems have been successfully used in clinical practice for estimating cerebral perfusion by registering blood flow velocity in the middle cerebral artery. However, when used in centrifuges, probe movement during high +Gz have resulted in the loss of Doppler signal making interpretations of data very difficult. To solve this problem, the Doppler probe and three electrical motors were mounted on a tightly fitted helmet. Remote control of these motors allows precise tilting and sliding of the probe during G exposures. Vertical movement of the probe is recorded when a good flow velocity signal is achieved. On succeeding G-exposures, the probe is moved to the predicted positions for different G-loads when the Gload changes. A computer program to automate this process is currently under development. With this device, blood flow velocity in the middle cerebral artery can be registered at G-loads up to 9 +Gz with increased accuracy.

N94-29034# Air Force Systems Command, Wright-Patterson AFB, OH. Crew Systems Directorate.

STRESS AND ERGONOMIC DESIGN AND EVALUATION OF PERSON-MACHINE SYSTEMS Final Report, Jan. 1992 - May

HERSCHEL C. SELF May 1993 35 p (Contract AF PROJ. 7184)

(AD-A275156; AL/CF-SR-1993-0008) Avail: CASI HC A03/MF A01 This report was written to make system designers and developers more stress-conscious and more alert to sources of potentially harmful operator stress. They are then more capable of designing person-machine systems in which stress is optimized, in which equipment and operating procedures are a good fit to system operators. In such systems, worker morale and performance are maintained, and the lifecycle system costs are less. Despite careful design efforts aided by preproduction tests and evaluations, personmachine systems often come into wide use with unanticipated and potentially harmful stress-related operator problems. How this can happen is made evident by examining stress in general and stress

in and out of the workplace. Examples of stress and strain are given. Stress from inadequate visual conditions is given special emphasis. The presentation is from ergonomic or application viewpoint. A stress checklist is given in the appendix.

N94-29093 Materials Research Labs., Ascot Vale (Australia). PORTABLE VENTILATORY RESUSCITATION SYSTEMS

WAI-MAN LAU and MARGARET DOWLING Limited Reproducibility: More than 20% of this document may be affected by microfiche quality

(AD-A274984; MRL-TN-649; DODA-AR-008-575) Avail: Issuing Activity (Defense Technical Information Center (DTIC))

A review on the commonly used resuscitators in Australia was conducted. Their specifications, capability, and limitations are examined and discussed. Some products are modified for operations in chemically contaminated environments and one of them will soon undergo clinical trials.

N94-29184 Navy Experimental Diving Unit, Panama City, FL. ADVANCED SEAL DELIVERY SYSTEM LIFE SUPPORT PARAMETERS Technical Report, May - Dec. 1993

M. E. KNAFELC Dec. 1993 14 p Limited Reproducibility: More than 20% of this document may be affected by microfiche quality (AD-A275304; NEDU-2-94) Avail: CASI HC A03

The purpose of this document is to provide a guideline to the technical evaluation board when reviewing the proposals for the Advanced SEAL Delivery System (ASDS). These guidelines are based upon a design that consists of at least two habitable compartments. The pilot and navigator will occupy one compartment, and its internal pressure will be maintained at 1 ATA. Another habitable compartment will hold the divers, and its inside pressure can be adjusted to permit controlled compression and decompression, or be maintained at a constant 1 ATA. The habitable chambers will be kept dry. Because of safety, environmental, and human factors' considerations, it is desirable for the lock-out chamber to be separate from the habitable compartments.

N94-29302# Defence and Civil Inst. of Environmental Medicine. Downsview (Ontario).

INSULATIVE PROPERTIES OF TWO THERMO-METAL **NEOPRENES Research Report**

MICHAEL B. DUCHARME and JOHN FRIM Dec. 1993 17 p. (AD-A275209; DCIEM-93-53) Avail: CASI HC A03/MF A01

The objective of the present study was to compare the thermal resistance of two thermo-metal neoprenes (titanium and stainless steel coated) to the current Canadian Forces Arctic diving suit neoprene (CF-N) in dry and wet environment. The test in the dry environment were conducted using a Rapid-k thermal conductivity instrument, and in the wet environment using a custom-made apparatus. The dry tests were conducted at 1 atmosphere in the laboratory, and the wet tests were done in a hyperbaric water chamber maintained at 5 C and at depths of 0, 10, 25, 50, and 100 m. Pre- and post-dive tests were performed on the same samples to investigate the effects of two dives on the thermal resistance of the neoprenes. It was found that the thermal insulation of the two thermo-metal neoprenes tested was significantly higher than that of the CF-N in both the dry and the wet environments. The best thermometal neoprene, the stainless steel coated neoprene, averaged an improvement of 53% in the dry and 60% in the wet environment (ranging from 70% at 0 m to 34% at 100 m). The insulative properties of the thermo-metal neoprenes were affected, however, by the dives, decreasing by about 12% after two dives. It was concluded that the stainless steel thermo-metal neoprene could be a potential alternative to the current CF Arctic diving suit neoprene but further testing is needed on the long term effects of dives and aging on the insulative properties of the material.

N94-29710# Diamond Air Service, Inc. (Japan).

MICROGRAVITY BY PARABOLIC FLIGHT WITH MU-300 AIRCRAFT (MU-300 BIJINESU JETTOKI NI YORU MAIKURO **G FURAITO**

MITSUO SATO In Society of Medical Research for Space Station, The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight p 1-8 Mar. 1993 In JAPANESE

Avail: CASI HC A02/MF A01

Parabolic flight has an advantage to achieve microgravity with ease and at a low-cost, as well as to enable the performance of science experiments by payload specialists themselves. This report summarizes results of a simulation study and actual flight for microgravity. Model flight pattern was determined on the basis of the most appropriate values for recovery gravity, maximum rising degree, maximum descending degree and pull-up gravity which were obtained by results of simulating calculation and test flights measuring gravity every 5 deg during chandelling and nose driving. In the test flights, the plane was controlled by manual steering, assuming that the stabilater trim was out of order. As a result, 1/100 to 5/100 G was achieved for an average of 20 seconds, maximum 24 seconds. The safety was confirmed in simulation calculation, determination of flight pattern, and structure and checking of the airframe. The microgravity experiments have been utilized for various fields, such as life science, material engineering, and physics.

Author (NASDA)

N94-29729 Vanderbilt Univ., Nashville, TN. **EVA GLOVE EVALUATION METHODOLOGY AND TEST** PROTOCOL Ph.D. Thesis

ELAINE MARIE HINMAN-SWEENEY 1993 244 p Avail: Univ. Microfilms Order No. DA9324440

One of the most critical components of a spacesuit is the gloves, yet gloves have traditionally presented significant design challenges. With the continued and varied efforts at glove development, a method for evaluating glove performance is needed. This dissertation presents a pressure glove evaluation protocol. A brief history of extra-vehicular activity (EVA) glove development and test procedures is given. A description of this evaluation protocol, and its development is provided. The protocol allows comparison of one glove design to another, or any one design to bare handed performance. Gloves for higher pressure suits may be evaluated at current and future design pressures to drive out differences in performance due to pressure effects. Using this protocol, gloves may be evaluated during design to drive out design problems and determine areas for improvement or fully mature designs may be evaluated with respect to mission requirements. Several different test configurations are presented to handle these cases. A glovebox, set of tasks, and a methodology to evaluate glove performance was developed. Evaluating comfort has been a difficulty in glove testing. A technique for quantifying comfort data is presented. This protocol was run on a prototype glove. The prototype was evaluated at two operating pressures and in the unpressurized state, with results compared to bare-handed performance. Results and analysis from this test series are provided, as is a description of the test configuration used for this test. Dissert, Abstr.

N94-29950 Selskapet for Industriell og Teknisk Forskning, Trondheim (Norway). Div. of Applied Thermodynamics. MAINTAINING ACCEPTABLE THERMAL COMFORT WITH A LOW AIR TEMPERATURE BY MEANS OF LOCAL HEATING R. SOERLIE 13 Jul. 1993 11 p See also DE85750802 (PB94-138526; STF15-A93053) Avail: Issuing Activity (National Technical Information Service (NTIS))

The main objective was to assess (1) the lower room temperature for acceptable thermal comfort of the person seated at the desk, and (2) to assess the energy-saving qualities of the local heater. During the experiments various temperatures, air velocity, radiant flux and thermal asymmetry were all measured. The thermal manneguin was used in order to verify the level of thermal comfort and was constructed in such a way as to be thermally equivalent to a human. The local heater creates a local microclimate with satisfactory thermal comfort for the person seated at the desk, while the temperature in the rest of the room can be as low as 17-18 C. Supplementary thermal simulations carried out on computer showed that it is possible to save heating energy by reducing the general room temperature.

N94-30000 Selskapet for Industriell og Teknisk Forskning, Trondheim (Norway). Div. of Refrigeration Engineering.

CONTROL OF HEATING, VENTILATION AND **CONDITIONING (HVAC) SYSTEMS**

M. C. SVENSSON 11 Aug. 1993 40 p

(PB94-138807; STF11-A93056) Avail: Issuing Activity (National Technical Information Service (NTIS))

The report contains the English version of chapter 9 in a new book which will be published in German (Bauverlag). Chapter 9 discusses different aspects regarding control of heating, ventilation, and air-conditioning (HVAC) systems. The book project coordinator is Dring S. Nowotny, and the preliminary book title is: Technische Gebaudeausrustungen. NTIS

N94-30122*# George Washington Univ., Washington, DC. Science Communication Studies.

PUBLICATIONS OF THE NASA CONTROLLED ECOLOGICAL LIFE SUPPORT SYSTEM (CELSS) PROGRAM 1989-1992 JANET V. POWERS Mar. 1994 46 p

(Contract NASW-4324) (NASA-CR-4603; NAS 1.26:4603) Avail: CASI HC A03/MF A01

University.

Publications of research sponsored by the NASA Controlled Ecological Life Support System (CELSS) program are listed. The CELSS program encompasses research and technology with the goal of developing an autonomous bioregenerative life support system, which is based upon the integration of biological and physical/chemical processes, that will produce nutritious and palatable food, potable and hygienic water, and a breathable atmosphere by recycling metabolic and other wastes. This research and technology development is being performed in the areas of biomass production/food processing, waste management, and systems management and control. The bibliography follows these divisions. Principal investigators whose research tasks resulted in publication are identified by an asterisk. Publications are identified by a record number corresponding with their entry in the Life Sciences Bibliographic Database, maintained at the George Washington

N94-30132# Defence and Civil Inst. of Environmental Medicine. Downsview (Ontario).

Author (revised)

THE USE OF TASK NETWORK SIMULATION IN WORKLOAD PREDICTION

MARY MARGARET SCHUCK and KEITH C. HENDY 1992 7 p (DCIEM-92-32; CTN-94-61138) Avail: CASI HC A02/MF A01

As aviation systems become increasingly complex, it becomes more important to design these systems within the capabilities and limitations of their operators. Practical workload and performance prediction techniques are thus required for the design of systems. One technique which has proven useful is task network simulation. This approach produces a simulated task timeline for the given mission, but must be linked with some model of human information processing in order to make workload or performance predictions. The use of task network simulation within the Canadian Department of National Defence for the prediction of workload during the early design of complex man-machine systems is reviewed. The measures of workload used within the simulation are detailed, with particular emphasis on the use of task rating scales and task conflict matrices. The modifications to these two tools made at the Defence and Civil Institute of Environmental Medicine are presented as well as their present and future applications. Author (CISTI)

N94-30188*# Rush-Presbyterian-Saint Luke's Medical Center, Chicago, IL.

CIRCADIAN COUNTERMEASURES FOR SHIFTWORKERS

DURING USMP-2: A REPORT TO MISSION MANAGEMENT Final Report

KAREN T. STEWART and JULIE HAYES Apr. 1994 30 p (Contract NASA ORDER H-13012-D)

(NASA-CR-195260; NAS 1.26:195260) Avail: CASI HC A03/ MF A01

People who must work at night experience a number of physiological and psychological difficulties. These include sleepiness and fatigue at work, poor daytime sleep, gastrointestinal distress, impaired concentration and performance, disturbed mood, and increased health complaints and risk of disease. These difficulties arise because nocturnal work and daytime sleep take place at inappropriate phases of the body's circadian rhythms. Intense artificial light can shift the phase of human circadian rhythms, and can thus be used to promote adaptation to shifted work schedules. The first attempts to investigate the efficacy of light treatment for MSFC POCC shiftworkers took place during USML-1 and ATLAS-2. The findings from these studies led to the development of a Circadian Countermeasures Program that was implemented during USMP-2. Light treatment and other circadian countermeasures were employed to promote adjustment to mission shiftwork in POCC cadre volunteers. Treatment protocols were designed and customized for each volunteer's work hours and personal preferences. Treatment protocols included some or all of the following: scheduled self-administration of intense light, scheduled avoidance or attenuation of sunlight at other times, and sleep schedules. Data from postmission questionnaires indicated that volunteers found the program to be effective, convenient, and beneficial.

N94-30210*# National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX.

TACTILITY AS A FUNCTION OF GRASP FORCE: EFFECTS OF GLOVE, ORIENTATION, PRESSURE, LOAD, AND HANDLE RAM R. BISHU (Nebraska Univ., Lincoln.), LISA A. BRONKEMA (Nebraska Univ., Lincoln.), DISHAYNE GARCIA (Wichita State Univ., KS.), GLENN KLUTE, and SUDHAKAR RAJULU May 1994 23 p

(NASA-TP-3474; S-761; NAS 1.60:3474) Avail: CASI HC A03/ MF A01

One of the reasons for reduction in performance when gloves are donned is the lack of tactile sensitivity. It was argued that grasping force for a weight to be grasped will be a function of the weight to be lifted and the hand conditions. It was further reasoned that the differences in grasping force for various hand conditions will be a correlate of the tactile sensitivity of the corresponding hand conditions. The objective of this experiment, therefore, was to determine the effects of glove type, pressure, and weight of load on the initial grasping force and stable grasping force. It was hypothesized that when a person grasps an object, he/she grasps very firmly initially and then releases the grasp slightly after realizing what force is needed to maintain a steady grasp. This would seem to be particularly true when a person is wearing a glove and has lost some tactile sensitivity and force feedback during the grasp. Therefore, the ratio of initial force and stable force and the stable force itself would represent the amount of tactile adjustment that is made when picking up an object, and this adjustment should vary with the use of gloves. A dynamometer was fabricated to measure the grasping force; the tests were performed inside a glove box. Four female and four male subjects participated in the study, which measured the effects of four variables: load effect, gender effect, glove type, and pressure variance. The only significant effects on the peak and stable force were caused by gender and the weight of the load lifted. Neither gloves nor pressure altered these forces when compared to a bare-handed condition, as was suspected before the test. It is possible that gloves facilitate in holding due to coefficient of friction while they deter in peak grasp strength. Author (revised)

N94-30304 Alberta Research Council, Edmonton. Dept. of Advanced Computing and Engineering.
ASPECTS OF THE OPERATOR INTERFACE FOR

MILITARY ROBOTIC APPLICATIONS IN UNSTRUCTURED ENVIRONMENTS

P. FEIGHAN, P. WOJCIK, and K. CHRYSTALL In Defence Research Establishment Suffield, Proceedings of the 3rd Conference on Military Robotic Applications p 220-226 1991 Avail: Issuing Activity (Defence Research Establishment Suffield, P.O. Box 4000, Medicine Hat, AB T1A 8K6 Canada)

The major challenges facing a designer of a military robotics operator interface are discussed. These include operating in unstructured environments, coping with restricted communications between operator and remote robotic system, defining the level of autonomy of the robotic system, and monitoring system health. Currently available operator interface technologies for remote robotic systems are reviewed which have been developed and tested in industrial or research laboratories. This overview includes discussion of the level of autonomy of telerobotic systems and its impact on the operator interface design, as well as description of the best ways of displaying information from the remote system and of inputting necessary commands and controls for telerobots. The concepts of military robotics operator interfaces are then introduced, based on two scenarios: simple teleoperation and remote control of a semiautonomous robotic system. Both use synthetic graphics to help the operator understand the work environment. This technology has recently been found very useful and its importance in operating remote robotic systems is expanding. Further areas of research are recommended. Author (CISTI)

N94-30320 Center for Mathematics and Computer Science, Amsterdam (Netherlands). Dept. of Algorithmics and Architecture. THE ERGONOMICS OF COMPUTER INTERFACES: DESIGNING A SYSTEM FOR HUMAN USE

LAMBERT G. L. T. MEERTENS and STEVEN PEMBERTON Dec. 1992 29 p Limited Reproducibility: More than 20% of this document may be affected by microfiche quality (ISSN 0169-118X)

(CWI-CS-R9258; ETN-94-95540) Copyright Avail: CASI HC A03
A discussion on the ergonomic problems with currently available software products and what in general is necessary in order to make an application pleasant to use is presented. The application of these principles to an open architecture user interface system, Views, is described.

N94-30390 National Aerospace Lab., Amsterdam (Netherlands). Informatics Div.

AIDING THE OPERATOR IN THE MANUAL CONTROL OF A SPACE MANIPULATOR

J. F. T. BOS, H. G. STASSEN, and A. VANLUNTEREN 29 Jun. 1992 11 p Presented at the 5th IFAC/IFIP/IFORS/IEA Symposium on Analysis, Design and Evaluation of Man-Machine Systems, The Hague, Netherlands, 9-11 Jun. 1992 Sponsored by Netherlands Technology Foundation Prepared in cooperation with Fokker Space and Systems Limited Reproducibility: More than 20% of this document may be affected by microfiche quality

(PB94-125549; NLR-TP-92261-U; ETN-94-95586) Avail: Issuing Activity (European Space Agency (ESA))

Three problems faced by an operator when controlling a space manipulator manually were investigated: lack of direct vision, up to six degrees of freedom to be controlled, and slow and complex dynamics. The results showed that reference lines enhance the three dimensional perception; further automation of the insert task led to a more efficient task execution; the display of the stopping configuration can lead to a faster and safer task execution. The display of the predicted trajectory led to less energy consumption due to a more calm control behavior. The length of the prediction horizon should equal half of the stopping time.

N94-30422 National Aerospace Lab., Amsterdam (Netherlands). Flight Div.

SAMPLING BEHAVIOUR IN A FOUR INSTRUMENT MONITORING TASK: EFFECTS OF SIGNAL BANDWIDTH AND

NUMBER OF EVENTS PER SIGNAL

H. G. M. BOHNEN, M. A. M. LEERMAKERS, and P. J. VENEMANS 31 Dec. 1992 35 p Submitted for publication Sponsored by the Co-Operation Centre of Tilburg and Eindhoven Universities Limited Reproducibility: More than 20% of this document may be affected by microfiche quality

(AD-B179613; NLR-TP-92386-U; ETN-94-95960) Avail: CASI HC A03

The effect of global signal characteristics, such as bandwidth and number of events on human sampling behavior, is investigated. Whether or not the influence of these characteristics on sampling strategy is affected by local (actually observed) signal features, such as the degree with which a sampled signal value falls short of an event region and the rate of change, is examined. Four independent, numerically displayed signals were used; two different bandwidths and two different event numbers were chosen. To take a sample, subjects had to use a mouse. The mouse key responses were used as an index of sampling. It was demonstrated that both bandwidth and number of events equally affected the distribution of samples over signals. In addition, it was shown that global signal characteristics determine sampling behavior less prominently when the attentional demands brought about by the local features become of greater importance. This indicates that not predictability as governed by global signal characteristics as such, but rather predictability given certain local signal features is a crucial factor in determining sampling behavior.

N94-30799 Vanderbilt Univ., Nashville, TN. ANALYSIS AND DESIGN OF INFLATABLE AEROSPACE STRUCTURES Ph.D. Thesis

JOHN ALAN MAIN 1993 227 p

Avail: Univ. Microfilms Order No. DA9324454

This dissertation presents a new structural model for the bending behavior of inflated cylindrical fabric structures that are used as beams. The goal of this investigation was twofold: to perform a fundamental investigation into the static and dynamic bending behavior of the inflated fabric beam and to apply the results to practical problems faced in the design of aerospace inflated structures. Fundamental work was done in development of a model for the static and dynamic bending behavior of the inflated beam. The bending analysis of the inflated beam resulted in a differential equation of bending for the unwrinkled regions of the beam that is identical to the Euler Bernoulli solution. A more complex differential regulation was found when the fabric wrinkled due to the applied moments. Experimental work was performed to verify the bending model for the inflated beam. Excellent agreement was found between the model and experimental results in static bending tests of a number of inflated cantilever beams. Dynamic tests were performed and mode shapes, natural frequencies, and damping mechanisms for the inflated beam examined. A series of dynamic tests were also performed on the NASA KC-135 Low Gravity Simulator aircraft to determine the sensitivity of the dynamics of inflated beam structures to changes in gravitation level. Large changes in structural damping were found to occur across G level. This basic research was used to predict the dynamics of a complex inflated structure, a mockup of an inflated solar concentrator. Structural modeling was performed using a finite element software package and the lower modes of vibration of the inflated structure were accurately predicted by the finite element model. The inflated beam bending model also proved itself immediately useful in aerospace applications since many of the current space suit components are essentially fabric tubes. Recommendations for improving space suit flexibility that have arisen from this research include reducing the modulus and increasing the Poisson's ratio of the fabric. A series of experiments were performed to prove these concepts. The results of those tests and the space suit glove design recommendations arising from them are included in this work. Dissert. Abstr.

N94-31224# European Space Agency. European Space Research and Technology Center, ESTEC, Noordwijk (Netherlands). Thermal Control and Life Support Div.

ATMOSPHERE QUALITY STANDARDS IN MANNED SPACE VEHICLES

Jun. 1992 238 p (ISSN 0379-4059)

(ESA-PSS-03-401-ISSUE-1; ETN-94-95872) Copyright Avail: CASI HC A11/MF A03

The various parameters which define the physical, chemical, and biological status of the atmospheres of space vehicles are described. Each of these atmospherical parameters is given standard values as required for the different situations encountered in space missions. Data on the following are given: respiration physiology; decompression physiology; atmospheric parameters; atmospheric contamination; environmental control and safety aspects.

ECA

N94-31302# Naval Health Research Center, San Diego, CA.
A REVIEW OF MICROCLIMATE COOLING SYSTEMS IN THE
CHEMICAL, BIOLOGICAL, RADIOLOGICAL ENVIRONMENT
T. DERION and R. S. POZOS 22 Sep. 1993 29 p
(Contract NR PROJ. M33-P-30)

(AD-A276446; NHRC-93-23) Avail: CASI HC A03/MF A01

Soldiers may work in hot environments and under conditions posing a biological, chemical, or nuclear threat. Chemical protective overgaments are worn to prevent contact with toxins; however, they prevent dissipation of body heat. This review addresses the effectiveness of microclimate cooling systems in alleviating thermal strain in personnel encapsulated in protective overgarments during exertion in the heat. Air, liquid, and passive ice cooling systems are primarily reviewed, but other methodologies are also discussed. Air cooling can increase tolerance time fourfold, but high ambient temperature air cooling may be dangerous. Liquid cooling is effective in reducing heat strain at light to moderate work loads and is beneficial when applied to the thighs during lower-body exercise. Overcooling and discomfort can occur with a liquid-cooled system due to cutaneous vasoconstriction. Liquid-cooled systems are heavy and require excessive maintenance, and tube compression can result in interrupted coolant flow. Air cooling is inefficient compared to liquid cooling because of air's lower specific heat. Ice cooling may only be suitable for short-term work and is generally less effective than either air or liquid cooling although the wearer can move about untethered. The best cooling system design approach may be indicated by consideration of the unique cooling needs of personnel performing specific tasks in various environments.

N94-31380*# National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL.

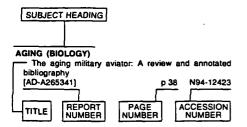
TECHNICAL ASSESSMENT OF MIR-1 LIFE SUPPORT HARDWARE FOR THE INTERNATIONAL SPACE STATION K. L. MITCHELL, R. M. BAGDIGIAN, R. L. CARRASQUILLO, D. L. CARTER, G. D. FRANKS, D. W. HOLDER, JR., C. F. HUTCHENS, K. Y. OGLE, J. L. PERRY, and C. D. RAY Mar. 1994 183 p Original contains color illustrations

(NASA-TM-108441; NAS 1.15:108441) Avail: CASI HC A09/MF A02; 7 functional color pages

NASA has been progressively learning the design and performance of the Russian life support systems utilized in their Mir space station. In 1992, a plan was implemented to assess the benefits of the Mir-1 life support systems to the Freedom program. Three primary tasks focused on: evaluating the operational Mir-1 support technologies and understanding if specific Russian systems could be directly utilized on the American space station and if Russian technology design information could prove useful in improving the current design of the planned American life support equipment; evaluating the ongoing Russian life support technology development activities to determine areas of potential long-term application to the U.S. space station; and utilizing the expertise of their space station life support systems to evaluate the benefits to the current U.S. space station program which included the integration of the Russian Mir-1 designs with the U.S. designs to support a crew of six. Author (revised)

AEROSPACE MEDICINE AND BIOLOGY / A Continuing Bibliography (Supplement 390)

Typical Subject Index Listing



The subject heading is a key to the subject content of the document. The title is used to provide a description of the subject matter. When the title is insufficiently descriptive of document content, a title extension is added, separated from the title by three hyphens. The accession number and the page number are included in each entry to assist the user in locating the abstract in the abstract section. If applicable, a report number is also included as an aid in identifying the document. Under any one subject heading, the accession numbers are arranged in sequence.

ABSTRACTS

Clinical investigation program

[AD-A275025]

p 214 N94-29116

ACCELERATION PROTECTION

Comparative centrifuge evaluation of the Air Force Advanced Technology Anti-G Suit (ATAGS) and the Navy Enhanced Anti-G Lower Ensemble (EAGLE) [AD-A275348] p 222 N94-28996

Procedures and metrics for anti-G suit evaluations p 223 N94-28997

ACCELERATION STRESSES (PHYSIOLOGY)

Comparative centrifuge evaluation of the Air Force Advanced Technology Anti-G Suit (ATAGS) and the Navy Enhanced Anti-G Lower Ensemble (EAGLE)

[AD-A275348] p 222 N94-28996

ACTIVITY CYCLES (BIOLOGY)

Circadian countermeasures for shiftworkers during USMP-2: A report to mission management p 224 N94-30188 INASA-CR-1952601

ADAPTATION

Circadian countermeasures for shiftworkers during USMP-2: A report to mission management

[NASA-CR-195260] p 224 N94-30188

AEROEMBOLISM

Decompression sickness risk versus time and altitude p 214 N94-29071 [AD-A275261]

AEROSPACE MEDICINE

The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight

p 215 N94-29709 [JTN-94-80588] Hemodynamic measurement during parabolic flight

p 215 N94-29717 Motion sickness in parabolic flight: Possibility of

electrogastrography as an objective index p 215 N94-29718

Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats

p 210 N94-29866

AIR CONDITIONING

Control of heating, ventilation and air conditioning (HVAC) systems

[PB94-138807]

p 224 N94-30000

AIR CONDITIONING EQUIPMENT Control of heating, ventilation and air conditioning

(HVAC) systems [PB94-138807]

p 224 N94-30000

AIR COOLING

A review of microclimate cooling systems in the chemical, biological, radiological environment p 226 N94-31302 [AD-A276446]

AIR TRAFFIC CONTROL

Scanning and monitoring performance: Effects of the reinforcement values of the events being monitored p 221 N94-29918 [DOT/FAA/AM-94/8]

AIR TRAFFIC CONTROLLERS (PERSONNEL)

Scanning and monitoring performance: Effects of the reinforcement values of the events being monitored [DOT/FAA/AM-94/8] p 221 N94-29918

AIRCRAFT PILOTS

Disturbance of equilibrium on JAL flight crew

p 213 N94-28856

ALERTNESS Strategies to sustain and enhance performance in

tressful environments (AD-A275223) p 220 N94-29027

ALGAE

Japan-China collaboration research program on errestrial biology at Great Wall Station in King George Island, in the summer of 1990/1991

p 208 N94-29085

Growth of hydrocarbon-rich microalga Botryococcus braunii in secondarily treated sewage and its consumption of nitrate ion and phosphate ion p 209 N94-29519

ALGORITHMS

Analysis and an image recovery algorithm for ultrasonic tomography system p 217 N94-30456 Use of snakes to link edge points to create left ventricular

boundaries in echocardiographic images [TELECOM-93-D-016] p.2 p 218 N94-30970

ALTITUDE SIMULATION

Decompression sickness risk versus time and altitude p 214 N94-29071 [AD-A2752611

AMORPHOUS SILICON

Hydrogenated amorphous silicon (a-Si:H) based gamma amera: Monte Carlo simulations

ANAEROBES

p 219 N94-31323 [DE94-007042] One carbon metabolism in anaembic bacteria:

Regulation of carbon and electron flow during organic acid production (DE94-004852)

p 211 N94-30180

ANATOMY

Elements for the recognition of three dimensional deformable shapes: Application to biomedical image [TELECOM-93-E-006] p 218 N94-30978

Interactive reconstruction of anatomical structures with free-form surfaces p 219 N94-31195

[TELECOM-93-E-002]

ANGIOSPERMS

Cellular polarity and interactions in plant p 210 N94-29943

[NASA-CR-195261]

ANTARCTIC REGIONS Japan-China collaboration research program on terrestrial biology at Great Wall Station in King George Island, in the summer of 1990/1991

p 208 N94-29085

ANTIBIOTICS

antibiotic and Microencapsulation of anti-tumor, p 217 N94-30453 thrombolytic drugs in microgravity

ANTIBODIES

Effects of pressure on membrane-associated receptors and effector elements

p 207 N94-28829 [AD-A275813]

APPLICATIONS PROGRAMS (COMPUTERS)

The ergonomics of computer interfaces: Designing a ystem for human use

[CWI-CS-R9258] p 225 N94-30320 AQUICULTURE

Reproduction in the Japanese anchovy (Engraulis japonica) as related to population fluctuation p 209 N94-29708

ARMED FORCES (UNITED STATES)

Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program

p 215 N94-29211 [AD-A275309]

ARTERIES

Arterial oxygen saturation during +Gz acceleration by p 212 N94-28852 short-radius centrifuge Remote control of transcranial Doppler (TCD) probe

during centrifuge exposures up to 9 +Gz p 223 N94-29029 [AD-A275253] ARTIFICIAL INTELLIGENCE

An architecturally-based theory of human sentence comprehension

(AD-A275380) p 220 N94-29313 ASTRONAUT PERFORMANCE

Space and vertigo: In relation to space motion p 213 N94-28857 Tactility as a function of grasp force: Effects of glove,

orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210

ATROPHY

Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401

Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats

p 210 N94-29866

p 212 N94-28854

ATTITUDE (INCLINATION)

Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1

p 212 N94-28850 [JTN-94-80598] Effect of food intake on skin vasomotor responses to

head-up tilt in humans ATTITUDE CONTROL

Posture control of goldfishes under microgravity p 209 N94-29712

AUDIOMETRY

Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program p 215 N94-29211 [AD-A275309]

AUTONOMIC NERVOUS SYSTEM

Analysis of various biological activity parameters during parabolic flight p 221 N94-29716

В

BACILLUS

Physiology and molecular-genetics of thermus and

[PB94-135571]

p 208 N94-29190

BACTERIA

Studies on bacterial spore ultraviolet light resistance and regulation of the activity of a spore protease

p 207 N94-28884 [AD-A275448] Stable RNA sequences as a tool for DNA probes and phylogenetic studies

[PB94-135423] p 208 N94-29156 One carbon metabolism in anaerobic bacteria:

Regulation of carbon and electron flow during organic acid production IDE94-0048521

p 211 N94-30180

Disturbance of equilibrium on JAL flight crew

p 213 N94-28856 Space and vertigo: In relation to space motion p 213 N94-28857

RAI ANCE

Sampling behaviour in a four instrument monitoring task: Effects of signal bandwidth and number of events per p 225 N94-30422 (AD-B179613)

		CENTRIFUGES
BED REST	Effects of make-up on the heat transfer from the head	Relaxed tolerance following HSG, high sustained +Gz
Leg muscle volume during 30-day 6-degree head-down	in hyperthermic conditions p 216 N94-29864	[AD-A275204] p 213 N94-28892
bed rest with isotonic and isokinetic exercise training	BLOOD PRESSURE	Comparative centrifuge evaluation of the Air Force
[NASA-TM-4580] p 208 N94-29401	Effect of food intake on skin vasomotor responses to	Advanced Technology Anti-G Suit (ATAGS) and the Navy
BEHAVIOR	head-up tilt in humans p 212 N94-28854	Advanced Technology Anti-G Suit (ATAGS) and the Navy
Behavior and visual control of cyprinodonts under	BLOOD PUMPS	Enhanced Anti-G Lower Ensemble (EAGLE)
microgravity p 210 N94-29713	Development of the NASA/Baylor VAD	[AD-A275348] p 222 N94-28996
BENDING	p 218 N94-30458	Remote control of transcranial Doppler (TCD) probe
Analysis and design of inflatable aerospace structures	•	during centrifuge exposures up to 9 +Gz
p 226 N94-30799	BLOOD VESSELS	[AD-A275253] p 223 N94-29029
	Effect of food intake on skin vasomotor responses to	CENTRIFUGING
BENDING MOMENTS	head-up tilt in humans p 212 N94-28854	Effect of chronic centrifugation on in vitro fertilization
Analysis and design of inflatable aerospace structures	BODY TEMPERATURE	ERBCI OF CHIOTIC OSTUDIOGRAPH OF AT VICE TO MAZZEGON
p 226 N94-30799	Physiological responses during shipboard firefighting	and early development in mice ova p 207 N94-28853
BENDING VIBRATION		CEREBRAL CORTEX
Analysis and design of inflatable aerospace structures	[AD-A275104] p 214 N94-28912	Synaptogenesis, selective stabilization, and free
p 226 N94-30799	BRAIN	association
BIBLIOGRAPHIES	Synaptogenesis, selective stabilization, and free	(AD-A275250) p 215 N94-29431
	association	CEREBRUM
Publications of the NASA Controlled Ecological Life	[AD-A275250] p 215 N94-29431	Remote control of transcranial Doppler (TCD) probe
Support System (CELSS) program 1989-1992	(
[NASA-CR-4603] p 224 N94-30122	Japanese Journal of Aerospace and Environmental	during centrifuge exposures up to 9 +Gz
BIOASSAY	Medicine, vol. 30, no. 2	[AD-A275253] p 223 N94-29029
Microfabricated silicon biosensors for	[JTN-94-80599] p 215 N94-29863	CESIUM IODIDES
microphysiometry p 210 N94-29783	Effects of make-up on the heat transfer from the head	Characteristics of secondary electron emission from Csl
BIOASTRONAUTICS	in hyperthermic conditions p 216 N94-29864	induced by x rays with energies up to 100 keV
		[DE94-608422] p 217 N94-30185
Hemodynamic measurement during parabolic flight	BREATHING APPARATUS	CHEMICAL COMPOSITION
p 215 N94-29717	Decompression sickness risk versus time and altitude	
Motion sickness in parabolic flight: Possibility of	[AD-A275261] p 214 N94-29071	Effects of pressure on membrane-associated receptors
electrogastrography as an objective index	BREEDING (REPRODUCTION)	and effector elements
p 215 N94-29718	Reproduction in the Japanese anchovy (Engraulis	[AD-A275813] p 207 N94-28829
BIOCHEMISTRY	iaponica) as related to population fluctuation	CHLOROPRENE RESINS
One carbon metabolism in anaerobic bacteria:		Insulative properties of two thermo-metal neoprenes
Regulation of carbon and electron flow during organic acid	p 209 N94-29708	[AD-A275209] p 223 N94-29302
	BRYOPHYTES	CIRCADIAN RHYTHMS
production	Estimation of the net production of moss community	
[DE94-004852] p 211 N94-30180	at Langhovde, East Antarctica p 207 N94-29081	Strategies to sustain and enhance performance in
International Journal of Quantum Chemistry. Quantum	Japan-China collaboration research program on	stressful environments
Biology Symposium number 20. Proceedings of the	terrestrial biology at Great Wall Station in King George	[AD-A275223] p 220 N94-29027
International Symposium on the Application of		Circadian countermeasures for shiftworkers during
Fundamental Theory to Problems of Biology and	Island, in the summer of 1990/1991	USMP-2: A report to mission management
Pharmacology	p 208 N94-29085	[NASA-CR-195260] p 224 N94-30188
	Cellular polarity and interactions in plant	,
[AD-A276294] p 212 N94-31294	graviperception	CIRCULATION
BIOINSTRUMENTATION	[NASA-CR-195261] p 210 N94-29943	Strategies to sustain and enhance performance in
Microfabricated silicon biosensors for	,	stressful environments
microphysiometry p 210 N94-29783	•	[AD-A275223] p 220 N94-29027
BIOLOGICAL EFFECTS	C	CIRCULATORY SYSTEM
Role of x ray-induced transcripts in adaptive responses	•	Effects of make-up on the heat transfer from the head
following x rays	CAMERAS	
[DE94-005412] p 211 N94-30895		in hyperthermic conditions p 216 N94-29864
BIOMASS	Hydrogenated amorphous silicon (a-Si:H) based gamma	CLASSIFICATIONS
BIOMASS	camera: Monte Carlo simulations	Copepods collected along 33.5 deg E longitude of the
Compands collected at 00 f d f tit do of the		
Copepods collected along 33.5 deg E longitude of the	[DE94-007042] p 219 N94-31323	Antarctic Ocean in the 1976 summer
Antarctic Ocean in the 1976 summer	CANCER	
Antarctic Ocean in the 1976 summer p 207 N94-29082		p 207 N94-29082
Antarctic Ocean in the 1976 summer	CANCER Conformal external radiotherapy of prostatic carcinoma:	p 207 N94-29082 CLINICAL MEDICINE
Antarctic Ocean in the 1976 summer p 207 N94-29082	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results	p 207 N94-29082 CLINICAL MEDICINE Clinical investigation program
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029	p 207 N94-29082 CLINICAL MEDICINE
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON	p 207 N94-29082 CLINICAL MEDICINE Clinical investigation program
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMASS ENERGY PRODUCTION	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria:	p 207 N94-29082 CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities:	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid	p 207 N94-29082 CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production	p 207 N94-29082 CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180	p 207 N94-29082 CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMEDICAL DATA	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production	p 207 N94-29082 CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life
Antarctic Ocean in the 1976 summer p. 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMEDICAL DATA Interactive reconstruction of anatomical structures with	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180	p 207 N94-29082 CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMEDICAL DATA	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 CARBON MONOXIDE	p 207 N94-29082 CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life
Antarctic Ocean in the 1976 summer p. 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMEDICAL DATA Interactive reconstruction of anatomical structures with	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation,	p 207 N94-29082 CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carbonyhemoglobin, and blood cyanide parameters	p 207 N94-29082 CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 BIOMETRICS	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919	p 207 N94-29082 CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] BIOMETRICS Motion sickness in parabolic flight: Possibility of	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] DE94-004852] p 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AH-94/7] CARBOXYHEMOGLOBIN	p 207 N94-29082 CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 BIOMETRICS Motion sickness in parabolic flight: Possibility of electrogastrography as an objective index	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carbonyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas	p 207 N94-29082 CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 BIOMETRICS Motion sickness in parabotic flight: Possibility of electrogastrography as an objective index p 215 N94-29718	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation,	p 207 N94-29082 CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154 COGNITIVE PSYCHOLOGY
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] P 219 N94-31195 BIOMETRICS Motion sickness in parabolic flight: Possibility of electrogastrography as an objective index P 215 N94-29718	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters	p 207 N94-29082 CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 BIOMETRICS Motion sickness in parabolic flight: Possibility of electrogastrography as an objective index p 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria:	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919	p 207 N94-29082 CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 BIOMETRICS Motion sickness in parabotic flight: Possibility of electrogastrography as an objective index p 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARDIAC OUTPUT	CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 BIOMETRICS Motion sickness in parabotic flight: Possibility of electrogastrography as an objective index p 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria: Regutation of carbon and electron flow during organic acid production	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919	p 207 N94-29082 CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 BIOMETRICS Motion sickness in parabotic flight: Possibility of electrogastrography as an objective index p 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARDIAC OUTPUT	CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 BIOMETRICS Motion sickness in parabotic flight: Possibility of electrogastrography as an objective index p 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria: Regutation of carbon and electron flow during organic acid production	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARDIAC OUTPUT Development of the NASA/Baylor VAD	CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 COLOR
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 BIOMETRICS Motion sickness in parabotic flight: Possibility of electrogastrography as an objective index p 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARDIAC OUTPUT Development of the NASA/Baylor VAD p 218 N94-30458 CARDIAC VENTRICLES	CLINICAL MEDICINE Clinical investigation program [AD-A275025] P 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] P 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] P 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] P 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] P 222 N94-28861 COLOR Seed viability detection using computerized false-color
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 BIOMETRICS Motion sickness in parabotic flight: Possibility of electrogastrography as an objective index p 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] BIOTECHNOLOGY Composite redesign of obstetrical forceps	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBIAC OUTPUT Development of the NASA/Baytor VAD p 218 N94-30458 CARDIAC VENTRICLES Use of snakes to link edge points to create left ventricular	CLINICAL MEDICINE Clinical investigation program [AD-A275025] P 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] P 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1889-1992 [NASA-CR-4603] P 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] P 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] P 222 N94-28861 COLOR Seed viability detection using computerized false-color radiographic image enhancement p 211 N94-30481
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences {DE94-001723} p 211 N94-30607 BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 BIOMETRICS Motion sickness in parabotic flight: Possibility of electrogastrography as an objective index p 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 BIOTECHNOLOGY Composite redesign of obstetrical forceps p 218 N94-30457	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARDIAC OUTPUT Development of the NASA/Baylor VAD	CLINICAL MEDICINE Cirrical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 COLOR Seed viability detection using computerized false-color radiographic image enhancement p 211 N94-30461
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] P 211 N94-30607 BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] P 211 N94-30607 BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] P 219 N94-31195 BIOMETRICS Motion sickness in parabotic flight: Possibility of electrogastrography as an objective index P 215 N94-29718 BIOSYNTHESIS One carbon metabotism in anaerobic bacteria: Regutation of carbon and electron flow during organic acid production [DE94-004852] P 211 N94-30180 BIOTECHNOLOGY Composite redesign of obstetrical forceps P 218 N94-30457 Annual report and summaries of FY 1993 activities:	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARDIAC OUTPUT Development of the NASA/Baylor VAD p 218 N94-30458 CARDIAC VENTRICLES Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970	CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 COLOR Seed viability detection using computerized false-color radiographic image enhancement p 211 N94-30461 COMBAT Effects of endurance training on heat-exercise tolerance
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 BIOMETRICS Motion sickness in parabotic flight: Possibility of electrography as an objective index p 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] BIOTECHNOLOGY Composite redesign of obstetrical forceps p 218 N94-30457 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] Development of the NASA/Baylor VAD p 218 N94-30458 CARDIAC VENTRICLES Use of snakes to link edge points to create left ventricular boundaries in echocardographic images [TELECOM-93-D-016] CARDIOVASCULAR SYSTEM	CLINICAL MEDICINE Cirrical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 COLOR Seed viability detection using computerized false-color radiographic image enhancement p 211 N94-30461
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 BIOMETRICS Motion sickness in parabotic flight: Possibility of electrogastrography as an objective index p 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 BIOTECHNOLOGY Composite redesign of obstetrical forceps p 218 N94-30457 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production (DE94-004852) p 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARDIAC OUTPUT Development of the NASA/Baylor VAD p 218 N94-30458 CARDIAC VENTRICLES Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CARDIOVASCULAR SYSTEM Japanese Journal of Aerospace and Environmental	CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 COLOR Seed viability detection using computerized false-color radiographic image enhancement p 211 N94-30461 COMBAT Effects of endurance training on heat-exercise tolerance
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] BIOMETRICS Motion sickness in parabolic flight: Possibility of electrogastrography as an objective index p 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] BIOTECHNOLOGY Composite redesign of obstetrical forceps p 218 N94-30457 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIRTH	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] P 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARDIAC OUTPUT Development of the NASA/Baylor VAD p 216 N94-29919 CARDIAC VENTRICLES Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CARDIOVASCULAR SYSTEM Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1	CLINICAL MEDICINE Cirrical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 COLOR Seed viability detection using computerized false-color radiographic image enhancement p 211 N94-30461 COMBAT Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 BIOMETRICS Motion sickness in parabotic flight: Possibility of electrogastrography as an objective index p 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] BIOTECHNOLOGY Composite redesign of obstetrical forceps p 218 N94-30457 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIRTH Composite redesign of obstetrical forceps	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production (DE94-004852) p 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARDIAC OUTPUT Development of the NASA/Baylor VAD p 218 N94-30458 CARDIAC VENTRICLES Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CARDIOVASCULAR SYSTEM Japanese Journal of Aerospace and Environmental	CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 COLOR Seed viability detection using computerized false-color radiographic image enhancement p 211 N94-30481 COMBAT Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 COMBUSTION PRODUCTS
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences {DE94-001723} p 211 N94-30607 BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces {TELECOM-93-E-002} p 219 N94-31195 BIOMETRICS Motion sickness in parabotic flight: Possibility of electrogastrography as an objective index p 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 BIOTECHNOLOGY Composite redesign of obstetrical forceps p 218 N94-30457 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIRTH Composite redesign of obstetrical torceps p 218 N94-30457	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] P 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARDIAC OUTPUT Development of the NASA/Baylor VAD p 216 N94-29919 CARDIAC VENTRICLES Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CARDIOVASCULAR SYSTEM Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1	CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 COLOR Seed viability detection using computerized false-color radiographic image enhancement p 211 N94-30461 COMBAT Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 COMBUSTION PRODUCTS Toxicity of carbon monoxide-hydrogen cyanide gas
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 BIOMETRICS Motion sickness in parabotic flight: Possibility of electrogastrography as an objective index p 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] BIOTECHNOLOGY Composite redesign of obstetrical forceps p 218 N94-30457 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIRTH Composite redesign of obstetrical forceps	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARDIAC OUTPUT Development of the NASA/Baylor VAD p 218 N94-29919 CARDIAC VENTRICLES Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-0-016] p 218 N94-30970 CARDIOVASCULAR SYSTEM Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80589] p 212 N94-28550	CLINICAL MEDICINE Cirrical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 COLOR Seed viability detection using computerized false-color radiographic image enhancement p 211 N94-30461 COMBAT Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 COMBUSTION PRODUCTS Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation,
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] BIOMETRICS Motion sickness in parabotic flight: Possibility of electrogastrography as an objective index p 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] BIOTECHNOLOGY Composite redesign of obstetrical forceps p 218 N94-30457 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIRTH Composite redesign of obstetrical forceps p 218 N94-30457 BIACKOUT	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] P 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARDIAC OUTPUT Development of the NASA/Baylor VAD p 216 N94-29919 CARDIAC VENTRICLES Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CARDIOVASCULAR SYSTEM Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80588] Effect of food intake on skin vasomotor responses to head-up tilt in humans p 212 N94-28854	CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4503] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 COLOR Seed viability detection using computerized false-color radiographic image enhancement p 211 N94-30461 COMBAT Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 COMBUSTION PRODUCTS Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 BIOMETRICS Motion sickness in parabotic flight: Possibility of electrography as an objective index p 215 N94-29718 BIOSYNTHESIS One carbon metabotism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] BIOTECHNOLOGY Composite redesign of obstetrical forceps p 218 N94-30457 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIRTH Composite redesign of obstetrical forceps p 218 N94-30457 BLACKOUT Remote control of transcranial Doppler (TCD) probe	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARDIAC OUTPUT Development of the NASA/Baylor VAD p 218 N94-30458 CARDIAC VENTRICLES Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CARDIOVASCULAR SYSTEM Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] Effect of food intake on skin vasomotor responses to head-up tilt in humans p 212 N94-28850 Effect of food intake on skin vasomotor responses to head-up tilt in humans p 212 N94-28854 Relexed tolerance following HSG, high sustained + Gz	CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 COLOR Seed viability detection using computerized false-color radiographic image enhancement p 211 N94-30461 COMBAT Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 COMBUSTION PRODUCTS Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxytemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences (DE94-001723) BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences (DE94-001723) BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces (TELECOM-93-E-002) P 219 N94-31195 BIOMETRICS Motion sickness in parabotic flight: Possibility of electrogastrography as an objective index p 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production (DE94-004852) BIOTECHNOLOGY Composite redesign of obstetrical forceps p 218 N94-30457 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences (DE94-001723) BIRTH Composite redesign of obstetrical torceps p 218 N94-30457 BLACKOUT Remote control of transcranial Doppler (TCD) probe during certaritage exposures up to 9 + Gz	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production (DE94-004852) p 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARDIAC OUTPUT Development of the NASA/Baylor VAD	CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4503] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 COLOR Seed viability detection using computerized false-color radiographic image enhancement p 211 N94-30461 COMBAT Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 COMBUSTION PRODUCTS Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] P 219 N94-31195 BIOMETRICS Motion sickness in parabolic flight: Possibility of electrogastrography as an objective index P 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] BIOTECHNOLOGY Composite redesign of obstetrical forceps p 218 N94-30457 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] P 211 N94-30607 BIRTH Composite redesign of obstetrical forceps p 218 N94-30457 BLACKOUT Remote control of transcranial Doppler (TCD) probe during centrifuge exposures up to 9 + Gz [AD-A275253] P 223 N94-29029	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARDIAC OUTPUT Development of the NASA/Baylor VAD p 218 N94-30458 CARDIAC VENTRICLES Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CARDIOVASCULAR SYSTEM Japanese Journal of Aerospace and Environmental Medicine, votume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of food intake on skin vasomotor responses to head-up tilt in hurnans p 212 N94-28854 Relaxed tolerance following HSG, high sustained + Gz [AD-AZ75204] p 213 N94-28892 Remote control of transcranial Doppler (TCD) probe	CLINICAL MEDICINE Cimical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154 COGNITTVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 COLOR Seed viability detection using computerized false-color radiographic image enhancement p 211 N94-30461 COMBAT Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 COMBUSTION PRODUCTS Toxicity of carbon monoxide-hydrogen cyanide gas mintures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT-FAA/AM-94/77] p 216 N94-29919 COMPENSATORY TRACKING
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] BIOMETRICS Motion sickness in parabotic flight: Possibility of electrogastrography as an objective index p 215 N94-29718 BIOSYNTHESIS One carbon metabotism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] BIOTECHNOLOGY Composite redesign of obstetrical forceps p 218 N94-30457 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] p 211 N94-30607 BIRTH Composite redesign of obstetrical forceps p 218 N94-30457 BLACKOUT Remote control of transcranial Doppler (TCD) probe during centrifuge exposures up to 9 + Gz [AD-A275253] p 223 N94-29029 BLOOO	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARDIAC OUTPUT Development of the NASA/Baylor VAD p 216 N94-29919 CARDIAC VENTRICLES Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CARDIOVASCULAR SYSTEM Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] Effect of food intake on skin vasomotor responses to head-up tilt in humans p 212 N94-28850 Effect of food intake on skin vasomotor responses to head-up tilt in humans p 212 N94-28892 Remote control of transcranial Doppler (TCD) probe during centrifuge exposures up to 9 + 4c2	CLINICAL MEDICINE Cirrical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 COLOR Seed viability detection using computerized false-color radiographic image enhancement p 211 N94-30461 COMBAT Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 COMBUSTION PRODUCTS Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhernoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 COMPENSATORY TRACKING Human pilot response during single- and mutit-axis
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences (DE94-001723) BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences (DE94-001723) BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces (TELECOM-93-E-002) BIOMETRICS Motion sickness in parabotic flight: Possibility of electrogastrography as an objective index p 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production (DE94-004852) BIOTECHNOLOGY Composite redesign of obstetrical forceps p 218 N94-30457 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences (DE94-001723) BIRTH Composite redesign of obstetrical forceps p 218 N94-30457 BLACKOUT Remote control of transcranial Doppler (TCD) probe during centrifuge exposures up to 9 + Gz [AD-A275253] BLOOD Japanese Journal of Aerospace and Environmental	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARDIAC OUTPUT Development of the NASA/Baylor VAD	CLINICAL MEDICINE Clinical investigation program [AD-A275025] P 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] P 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] P 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] P 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] COLOR Seed viability detection using computerized faise-color radiographic image enhancement P 211 N94-30461 COMBAT Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] COMBUSTION PRODUCTS Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] P 216 N94-29919 COMPENSATORY TRACKING Human pilot response during single- and multi-axis tracking tasks
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] Romans ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] P 219 N94-31195 BIOMETRICS Motion sickness in parabolic flight: Possibility of electrogastrography as an objective index P 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] BIOTECHNOLOGY Composite redesign of obstetrical forceps p 218 N94-30457 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] P 211 N94-30607 BIRTH Composite redesign of obstetrical forceps p 218 N94-30457 BLACKOUT Remote control of transcranial Doppler (TCD) probe during centrifuge exposures up to 9 + Gz [AD-A275253] P 223 N94-29029 Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARDIAC OUTPUT Development of the NASA/Baylor VAD p 218 N94-30458 CARDIAC VENTRICLES Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CARDIOVASCULAR SYSTEM Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80589] p 212 N94-28850 Effect of food intake on skin vasomotor responses to head-up tilt in humans Relaxed tolerance following HSG, high sustained + Gz [AD-A275204] p 213 N94-28892 Remote control of transcranial Doppler (TCD) probe during centrifuge exposures up to 9 + Gz [AD-A275253] p 223 N94-29029 The MERSS 5th Symposium on Space Medicine:	CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 COLOR Seed viability detection using computerized false-color radiographic image enhancement p 211 N94-30461 COMBAT Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 COMBUSTION PRODUCTS Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 COMPENSATORY TRACKING Human pilot response during single- and multi-axis tracking tasks [AD-A275080] p 220 N94-28887
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences (DE94-001723) BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences (DE94-001723) BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces (TELECOM-93-E-002) BIOMETRICS Motion sickness in parabotic flight: Possibility of electrogastrography as an objective index p 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production (DE94-004852) BIOTECHNOLOGY Composite redesign of obstetrical forceps p 218 N94-30457 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences (DE94-001723) BIRTH Composite redesign of obstetrical forceps p 218 N94-30457 BLACKOUT Remote control of transcranial Doppler (TCD) probe during centrifuge exposures up to 9 + Gz [AD-A275253] BLOOD Japanese Journal of Aerospace and Environmental	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARDIAC OUTPUT Development of the NASA/Baylor VAD	CLINICAL MEDICINE Cirrical investigation program [AD-A275025] P 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] P 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] P 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] P 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] P 222 N94-28861 COLOR Seed viability detection using computerized false-color radiographic image enhancement P 211 N94-30461 COMBAT Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] P 214 N94-29049 COMBUSTION PRODUCTS Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxynemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] P 216 N94-29919 COMPOSITE MATERIALS
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] Romans ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] P 219 N94-31195 BIOMETRICS Motion sickness in parabolic flight: Possibility of electrogastrography as an objective index P 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] BIOTECHNOLOGY Composite redesign of obstetrical forceps p 218 N94-30457 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] P 211 N94-30607 BIRTH Composite redesign of obstetrical forceps p 218 N94-30457 BLACKOUT Remote control of transcranial Doppler (TCD) probe during centrifuge exposures up to 9 + Gz [AD-A275253] P 223 N94-29029 Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARDIAC OUTPUT Development of the NASA/Baylor VAD p 216 N94-29919 CARDIAC VENTRICLES Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CARDIOVASCULAR SYSTEM Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80581] p 212 N94-28854 Relaxed tolerance following HSG, high sustained + Gz [AD-A275204] Remote control of transcranial Doppler (TCD) probe during centrifuge exposures up to 9 + Gz [AD-A275253] The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabotic	CLINICAL MEDICINE Clinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 COLOR Seed viability detection using computerized false-color radiographic image enhancement p 211 N94-30461 COMBAT Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 COMBUSTION PRODUCTS Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 COMPENSATORY TRACKING Human pilot response during single- and multi-axis tracking tasks [AD-A275080] p 220 N94-28887
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] BIOMETRICS Motion sickness in parabolic flight: Possibility of electrogastrography as an objective index p 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] BIOTECHNOLOGY Composite redesign of obstetrical forceps p 218 N94-30457 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIACKOUT Remote control of transcranial Doppler (TCD) probe during centrifuge exposures up to 9 + Gz [AD-A275253] BLOOD Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production (DE94-004852) p 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters (DOT/FAA/AM-94/7) p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters (DOT/FAA/AM-94/7) p 216 N94-29919 CARDOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters (DOT/FAA/AM-94/7) p 216 N94-29919 CARDIAC OUTPUT Development of the NASA/Baylor VAD	CLINICAL MEDICINE Cirrical investigation program [AD-A275025] P 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] P 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] P 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] P 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] P 222 N94-28861 COLOR Seed viability detection using computerized false-color radiographic image enhancement P 211 N94-30461 COMBAT Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] P 214 N94-29049 COMBUSTION PRODUCTS Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxynemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] P 216 N94-29919 COMPOSITE MATERIALS
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] P 211 N94-30607 BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] P 211 N94-30607 BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] P 219 N94-31195 BIOMETRICS Motion sickness in parabolic flight: Possibility of electrogastrography as an objective index P 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] P 211 N94-30180 BIOTECHNOLOGY Composite redesign of obstetrical forceps p 218 N94-30457 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] P 211 N94-30607 BIRTH Composite redesign of obstetrical forceps p 218 N94-30457 BLACKOUT Remote control of transcranial Doppler (TCD) probe during centrifuge exposures up to 9 + Gz [AD-A275253] P 223 N94-29029 BLOOD Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] Arterial oxygen saturation during + Gz acceleration by short-radius centrifuge p 212 N94-28850	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 CARDIAC OUTPUT Development of the NASA/Baytor VAD	CLINICAL MEDICINE Cinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 COMBAT Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 COMBUSTION PRODUCTS Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 COMPENSATORY TRACKING Human pilot response during single- and multi-axis tracking tasks [AD-A27509] p 220 N94-28887 COMPOSITE MATERIALS Insulative properties of two thermo-metal neoprenes [AD-A275209] p 223 N94-29302
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] BIOMETRICS Motion sickness in parabolic flight: Possibility of electrogastrography as an objective index p 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] BIOTECHNOLOGY Composite redesign of obstetrical forceps p 218 N94-30457 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] BIRTH Composite redesign of obstetrical forceps p 218 N94-30457 BLACKOUT Remote control of transcranial Doppler (TCD) probe during centrifuge exposures up to 9 + Gz [AD-A275253] BLOOD Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] Arterial oxygen saturation during + Gz acceleration by short-radius centrifuge BLOOD FLOW	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARDIAC OUTPUT Development of the NASA/Baylor VAD p 216 N94-29919 CARDIAC VENTRICLES Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CARDIOVASCULAR SYSTEM Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80588] p 212 N94-28850 Refect of food intake on skin vasomotor responses to head-up tilt in humans p 212 N94-28854 Relaxed tolerance following HSG, high sustained + Gz [AD-A275204] Remote control of transcranial Doppler (TCD) probe during centrifuge exposures up to 9 + Gz [AD-A275253] The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Fight [JTN-94-80588] p 215 N94-29709 Hemodynamic measurement during parabolic flight	CLINICAL MEDICINE Cimical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 COLOR Seed viability detection using computerized false-color radiographic image enhancement p 211 N94-30461 COMBAT Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-2949 COMBUSTION PRODUCTS Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 COMPENSATORY TRACKING Human pilot response during single- and multi-axis tracking tasks [AD-A275080] p 220 N94-28887 COMPOSITE MATERIALS Insulative properties of two thermo-metal neoprenes [AD-A275080] p 223 N94-29302 Composite redesign of obstetrical forceps
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences (DE94-001723) BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences (DE94-001723) BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces (TELECOM-93-E-002) BIOMETRICS Motion sickness in parabotic flight: Possibility of electrogastrography as an objective index p 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production (DE94-004852) BIOTECHNOLOGY Composite redesign of obstetrical forceps p 218 N94-30457 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences (DE94-001723) BIRTH Composite redesign of obstetrical forceps p 218 N94-30457 BLACKOUT Remote control of transcranial Doppler (TCD) probe during centrifuge exposures up to 9 + Gz (AD-A275253) BLOOD Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] P 212 N94-28850 Arterial oxygen saturation during + Gz acceleration by short-radius centrifuge Effect of food intake on skin vasomotor responses to	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production (DE94-004852) p 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters (DOT/FAA/AM-94/7) p 216 N94-29919 CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters (DOT/FAA/AM-94/7) p 216 N94-29919 CARDIAC VENTRICLES Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images (TELECOM-93-D-016) p 218 N94-30970 CARDIAC VENTRICLES Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images (TELECOM-93-D-016) p 218 N94-30970 CARDIOVASCULAR SYSTEM Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of food intake on skin vasomotor responses to head-up tilt in humans p 212 N94-28854 Relexed tolerance following HSG, high sustained + Gz (AD-A275204) p 213 N94-28892 Remote control of transcranial Doppler (TCD) probe during centrifuge exposures up to 9 + Gz (AD-A275253) p 223 N94-29029 The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabotic flight JTN-94-80588] p 215 N94-29709 Hemodynamic measurement during parabotic flight JTN-94-80588] p 215 N94-29709 Hemodynamic measurement during parabotic flight P 215 N94-29717	CLINICAL MEDICINE Clinical investigation program [AD-A275025] P 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] P 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4503] P 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] P 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] P 222 N94-28861 COLOR Seed viability detection using computerized false-color radiographic image enhancement P 211 N94-30461 COMBAT Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] P 214 N94-29049 COMBUSTION PRODUCTS Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] P 216 N94-29919 COMPENSATORY TRACKING Human pilot response during single- and mutti-axis tracking tasks [AD-A275080] P 220 N94-28887 COMPOSITE MATERIALS Insulative properties of two thermo-metal neoprenes [AD-A275209] P 228 N94-29302 Composite redesign of obstetrical forceps P 218 N94-30457
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences (DE94-001723) Romans ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences (DE94-001723) BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces (TELECOM-93-E-002) P 219 N94-31195 BIOMETRICS Motion sickness in parabotic flight: Possibility of electrogastrography as an objective index p 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production (DE94-004852) BIOTECHNOLOGY Composite redesign of obstetrical forceps p 218 N94-30457 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences (DE94-001723) P 211 N94-30607 BIRTH Composite redesign of obstetrical torceps p 218 N94-30457 BLACKOUT Remote control of transcranial Doppler (TCD) probe during centrifuge exposures up to 9 + Gz (AD-A275253) BLOOD Japenese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] Afterial oxygen saturation during + Gz acceleration by short-radius centrifuge P 212 N94-28852 BLOOD FLOW Effect of food intake on skin vasomotor responses to head-up tilt in humans P 212 N94-28854	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARDIAC OUTPUT Development of the NASA/Baytor VAD p 218 N94-29919 CARDIAC VENTRICLES Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] CARDIOVASCULAR SYSTEM Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80589] Effect of food intake on skin vasomotor responses to head-up tilt in humans p 212 N94-28850 Releaxed tolerance following HSG, high sustained + Gz [AD-A275204] P 213 N94-28892 Remote control of transcranial Doppler (TCD) probe during centrifuge exposures up to 9 + Gz [AD-A275204] P 213 N94-29892 The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabotic Fight JTN-94-80588] p 215 N94-29709 Hemodynamic measurement during parabotic fight p 215 N94-29717	CLINICAL MEDICINE Cinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 COLOR Seed viability detection using computerized false-color radiographic image enhancement p 211 N94-30481 COMBAT Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 COMBUSTION PRODUCTS Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 COMPENSATORY TRACKING Human pilot response during single- and multi-exis tracking tasks [AD-A275080] p 220 N94-28887 COMPOSITE MATERIALS Insulative properties of two thermo-metal neoprenes [AD-A275209] p 223 N94-29302 Composite redesign of obstetrical forceps p 218 N94-30457
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] P 211 N94-30607 BIOMASS ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] P 211 N94-30607 BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] P 219 N94-31195 BIOMETRICS Motion sickness in parabotic flight: Possibility of electrogastrography as an objective index P 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] P 211 N94-30180 BIOTECHNOLOGY Composite redesign of obstetrical forceps p 218 N94-30457 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences [DE94-001723] P 211 N94-30607 BIRTH Composite redesign of obstetrical forceps p 218 N94-30457 BLACKOUT Remote control of transcranial Doppler (TCD) probe during centrifuge exposures up to 9 + Gz [AD-A275253] P 223 N94-29029 BLOOD Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] Arterial oxygen saturation during + Gz acceleration by short-radius centrifuge P 212 N94-28850 Arterial oxygen saturation during + Gz acceleration by short-radius centrifuge P 212 N94-28859 BLOOD FLOW Effect of food intake on skin vasomotor responses to head-up tit in humans P 212 N94-28854 Remote control of transcranial Doppler (TCD) probe	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] P 211 N94-30180 CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposures to p 216 N94-29019 CARBOXYHEMOGLOBIN J N94-28850 The Merit of food intake on skin vasomotor responses to head-up til in humans p 212 N94-28850 [JTN-94-80588] P 212 N94-28854 Relaxed tolerance following HSG, high sustained + Gz [AD-A275204] Remote control of transcranial Doppler (TCD) probe during centrifuge exposures up to 9 + Gz [AD-A275253] The	CLINICAL MEDICINE Cinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1889-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154 COGNITTUE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 COLOR Seed viability detection using computerized false-color radiographic image enhancement p 211 N94-30461 COMBAT Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 COMBUSTION PRODUCTS Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT-FAA/AM-94/77] compensatory Tracking Human pilot response during single- and multi-exis tracking tasks [AD-A275080] p 220 N94-28887 COMPOSITE MATERIALS Insulative properties of two thermo-metal neoprenes [AD-A275209] p 223 N94-29302 Composite redesign of obstetrical forceps p 218 N94-30457 COMPUTER AIDED DESIGN Interactive reconstruction of anatomical structures with
Antarctic Ocean in the 1976 summer p 207 N94-29082 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences (DE94-001723) Romans ENERGY PRODUCTION Annual report and summaries of FY 1993 activities: Division of Energy Biosciences (DE94-001723) BIOMEDICAL DATA Interactive reconstruction of anatomical structures with free-form surfaces (TELECOM-93-E-002) P 219 N94-31195 BIOMETRICS Motion sickness in parabotic flight: Possibility of electrogastrography as an objective index p 215 N94-29718 BIOSYNTHESIS One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production (DE94-004852) BIOTECHNOLOGY Composite redesign of obstetrical forceps p 218 N94-30457 Annual report and summaries of FY 1993 activities: Division of Energy Biosciences (DE94-001723) P 211 N94-30607 BIRTH Composite redesign of obstetrical torceps p 218 N94-30457 BLACKOUT Remote control of transcranial Doppler (TCD) probe during centrifuge exposures up to 9 + Gz (AD-A275253) BLOOD Japenese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] Afterial oxygen saturation during + Gz acceleration by short-radius centrifuge P 212 N94-28852 BLOOD FLOW Effect of food intake on skin vasomotor responses to head-up tilt in humans P 212 N94-28854	CANCER Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 CARBON One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] CARBON MONOXIDE Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARBOXYHEMOGLOBIN Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] CARDIAC OUTPUT Development of the NASA/Baytor VAD p 218 N94-29919 CARDIAC VENTRICLES Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] CARDIOVASCULAR SYSTEM Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80589] Effect of food intake on skin vasomotor responses to head-up tilt in humans p 212 N94-28850 Releaxed tolerance following HSG, high sustained + Gz [AD-A275204] P 213 N94-28892 Remote control of transcranial Doppler (TCD) probe during centrifuge exposures up to 9 + Gz [AD-A275204] P 213 N94-29892 The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabotic Fight JTN-94-80588] p 215 N94-29709 Hemodynamic measurement during parabotic fight p 215 N94-29717	CLINICAL MEDICINE Cinical investigation program [AD-A275025] p 214 N94-29116 Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211 CLOSED ECOLOGICAL SYSTEMS Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122 COGNITION Temporal and qualitative decomposition of plausible reasoning [AD-A275073] p 220 N94-29154 COGNITIVE PSYCHOLOGY Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 COLOR Seed viability detection using computerized false-color radiographic image enhancement p 211 N94-30481 COMBAT Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 COMBUSTION PRODUCTS Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 COMPENSATORY TRACKING Human pilot response during single- and multi-exis tracking tasks [AD-A275080] p 220 N94-28887 COMPOSITE MATERIALS Insulative properties of two thermo-metal neoprenes [AD-A275209] p 223 N94-29302 Composite redesign of obstetrical forceps p 218 N94-30457

Japanese Journal of Aerospace and Environmental

EMBRYOS

FINGERS

DATA BASES Decompression [AD-A275261]

ion sickness risk versus time and attitude p 214 N94-29071

COMPUTER AIDED TOMOGRAPHY
Computer Assisted Medical Interventions: Application to

Conformal Radiotherapy	integrator	Medicine, Volume 30, no. 1
[RR-912-I] p 216 N94-30028		(JTN-94-80598) p 212 N94-28850
COMPUTER GRAPHICS	DECISION MAKING	Effect of chronic centrifugation on in vitro fertilization
Interactive reconstruction of anatomical structures with		and early development in mice ova p 207 N94-28853
tree-form surfaces	reasoning	EMERGENCY LIFE SUSTAINING SYSTEMS
[TELECOM-93-E-002] p 219 N94-31195	[AD-A275073] p 220 N94-29154	Portable ventilatory resuscitation systems
COMPUTER VISION	DECOMPRESSION SICKNESS	[AD-A274984] p 223 N94-29093
Computer Assisted Medical Interventions: Application to	Decompression sickness risk versus time and attitude	ENCAPSULATING
Conformal Radiotherapy	[AD-A275261] p 214 N94-29071	Microencapsulation of anti-tumor, antibiotic and
[RR-912-I] p 216 N94-30028	DEFORMATION	thrombolytic drugs in microgravity p 217 N94-30453
Pre- and intra-radiotherapy multimodal image	Elements for the recognition of three dimensional	ENVIRONMENTAL CONTROL
	deformable shapes: Application to biomedical imagery	Advanced seal delivery system life support parameters
registration: Principles and first experiments p 217 N94-30030	[TELECOM-93-E-006] p 218 N94-30978	[AD-A275304] p 223 N94-29184
COMPUTERIZED SIMULATION	DEOXYRIBONUCLEIC ACID	•
Microgravity by parabolic flight with MU-300 aircraft	Stable RNA sequences as a tool for DNA probes and	Atmosphere quality standards in manned space
p 224 N94-29710	phylogenetic studies	vehicles
Hydrogenated amorphous silicon (a-Si:H) based gamma	[PB94-135423] p 208 N94-29156	[ESA-PSS-03-401-ISSUE-1] p 226 N94-31224
	DESIGN ANALYSIS	Technical assessment of Mir-1 life support hardware for
camera: Monte Carlo simulations TDE94-0070421 p 219 N94-31323	EVA glove evaluation methodology and test protocol	the international space station
CONDENSED MATTER PHYSICS	p 224 N94-29729	[NASA-TM-108441] p 226 N94-31380
	Composite redesign of obstetrical forceps	ENVIRONMENTAL ENGINEERING
International Journal of Quantum Chemistry, Quantum	p 218 N94-30457	Technical assessment of Mir-1 life support hardware for
Biology Symposium number 20. Proceedings of the	•	the international space station
International Symposium on the Application of	DETONATION	[NASA-TM-108441] p 226 N94-31380
Fundamental Theory to Problems of Biology and	Blast overpressure studies with animals and man	EPILEPSY
Pharmacology	[AD-A275038] p 214 N94-29150	Monitor for status epilepticus seizures
[AD-A276294] p 212 N94-31294	DIAGNOSIS	p 218 N94-30460
CONFERENCES	Equilibrium dysfunction in the clinical field	•
The MERSS 5th Symposium on Space Medicine:	p 213 N94-28858	EQUIPMENT SPECIFICATIONS
Medical and Physiological Experiment Utilizing Parabolic	DIFFUSION	Composite redesign of obstetrical forceps
Flight	Remote control of transcranial Doppler (TCD) probe	p 218 N94-30457
[JTN-94-80588] p 215 N94-29709	during centrifuge exposures up to 9 + Gz	Development of the NASA/Baylor VAD
International Journal of Quantum Chemistry. Quantum	[AD-A275253] p 223 N94-29029	p 218 N94-30458
Biology Symposium number 20. Proceedings of the	DISABILITIES	EXERCISE PHYSIOLOGY
International Symposium on the Application of		Effects of endurance training on heat-exercise tolerance
Fundamental Theory to Problems of Biology and	Monitor for status epilepticus seizures	in men wearing NBC protective clothing
Pharmacology	p 218 N94-30460	[AD-A275176] p 214 N94-29049
[AD-A276294] p 212 N94-31294	DIVING (UNDERWATER)	EXOBIOLOGY
CONIFERS	Advanced seal delivery system life support parameters	
Plant-microbe interactions: Plant hormone production by	[AD-A275304] p 223 N94-29184	A discussion of eye-head coordinative movement under
phylloplane tungi	Insulative properties of two thermo-metal neoprenes	microgravity during parabolic flight p 220 N94-29715
[PB94-135563] p 208 N94-29189	[AD-A275209] p 223 N94-29302	EXPERIMENT DESIGN
CONSERVATION	DOPPLER EFFECT	Physiological Anatomical Rodent Experiment (PARE) .04
Evaluation of monitoring audiometry in the United States	Remote control of transcranial Doppler (TCD) probe	feasibility test 2
Air Force Hearing Conservation Program	during centrifuge exposures up to 9 + Gz	[NASA-CR-195210] p 210 N94-29968
[AD-A275309] p 215 N94-29211	[AD-A275253] p 223 N94-29029	EXPLOSIONS
CONTAMINATION	DRUGS	Blast overpressure studies with animals and man
		[AD-A275038] p 214 N94-29150
Atmosphere quality standards in manned space vehicles	Microencapsulation of anti-turnor, antibiotic and thrombolytic drugs in microgravity p. 217 N94-30453	EXTRAVEHICULAR ACTIVITY
vehicles	thrombolytic drugs in microgravity p 217 N94-30453	EXTRAVENICULAR ACTIVITY EVA glove evaluation methodology and test protocol
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS	
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures	EVA glove evaluation methodology and test protocol p 224 N94-29729
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove,
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocerdiographic images	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EYE (ANATOMY)
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EVE (ANATOMY) Dual use of image based tracking techniques: Laser eye
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocerdiographic images	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EVE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of anakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EYE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EYE MOVEMENTS
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EYE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EYE MOVEMENTS Non-intrusive gaze tracking using artificial neural
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EVE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EVE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EVE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EVE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EYE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EYE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EVE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EVE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures p 226 N94-30799	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EVE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EVE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EVE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EVE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 CONTROLLED ATMOSPHERES	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures p 226 N94-30799	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EYE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EYE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 CONTROLLED ATMOSPHERES Atmosphere quality standards in manned space	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures p 226 N94-30799	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EYE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EYE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 CONTROLED ATMOSPHERES Atmosphere quality standards in manned space vehicles	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures p 226 N94-30799 E EATING	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EYE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EYE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 CONTROLLED ATMOSPHERES Atmosphere quality standards in manned spece vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures p 226 N94-30799 E EATING Effect of food intake on skin vasomotor responses to	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EVE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EVE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 [F
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 CONTROLLED ATMOSPHERES Atmosphere quality standards in manned space vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTROLLERS	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures p 226 N94-30799 E EATING Effect of food intake on skin vasomotor responses to head-up tilt in humans p 212 N94-28854	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EVE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EVE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 FABRICS Analysis and design of inflatable aerospace structures p 226 N94-30799
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of anakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 CONTROLLED ATMOSPHERES Atmosphere quality standards in manned space vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTROLLERS A fuzzy logic controller for hormone administration using	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures p 226 N94-30799 E EATING Effect of food intake on skin vasomotor responses to head-up tift in humans p 212 N94-28854 ECHOCARDIOGRAPHY	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EYE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EYE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 FABRICS Analysis and design of inflatable aerospace structures p 226 N94-30799 FACE (ANATOMY)
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 CONTROLLED ATMOSPHERES Atmosphere quality standards in manned space vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTROLLERS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-0-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures p 226 N94-30799 E EATING Effect of food intake on skin vasomotor responses to head-up tilt in humans p 212 N94-28854 ECHOCARDIOGRAPHY Use of snakes to link edge points to create left ventricular	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EYE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EYE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 FABRICS Analysis and design of inflatable aerospace structures p 226 N94-30799 FACE (ANATOMY) Effects of make-up on the heat transfer from the head
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 CONTROLLED ATMOSPHERES Atmosphere quality standards in manned space vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTROLLERS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures p 226 N94-30799 E EATING Effect of food intake on skin vasomotor responses to head-up tilt in humans p 212 N94-28854 ECHOCARDIOGRAPHY Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EVE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EVE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28660 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 FABRICS Analysis and design of inflatable aerospace structures p 226 N94-30799 FACE (ANATOMY) Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 CONTROLLED ATMOSPHERES Atmosphere quality standards in manned spece vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTROLLERS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 CONVULSIONS Monitor for status epilepticus seizures	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures p 226 N94-30799 E EATING Effect of food intake on skin vasomotor responses to head-up tift in humans p 212 N94-28854 ECHOCARDIOGRAPHY Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EYE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EYE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 FABRICS Analysis and design of inflatable aerospace structures p 226 N94-30799 FACE (ANATOMY) Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 FEEDFORWARD CONTRIOL
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28629 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 CONTROLLED ATMOSPHERES Atmosphere quality standards in manned space vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTROLLERS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 CONVULSIONS Monitor for status epilepticus seizures	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures p 226 N94-30799 E EATING Effect of food intake on skin vasomotor responses to head-up tift in humans p 212 N94-28854 ECHOCARDIOGRAPHY Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 EDGE DETECTION	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EYE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EYE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 FABRICS Analysis and design of inflatable aerospace structures p 226 N94-30799 FACE (ANATOMY) Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 FEEDFORWARD CONTROL Non-intrusive gaze tracking using artificial neural
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 CONTROLLED ATMOSPHERES Atmosphere quality standards in manned space vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTROLLERS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30460 CONVULSIONS Monitor for status epilepticus seizures p 218 N94-30460	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures p 226 N94-30799 E EATING Effect of food intake on akin vasomotor responses to head-up tilt in humans p 212 N94-28854 ECHOCARDIOGRAPHY Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 EDGE DETECTION Use of snakes to link edge points to create left ventricular	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EVE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EVE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 FABRICS Analysis and design of inflatable aerospace structures p 226 N94-30799 FACE (ANATOMY) Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 FEEDFORWARD CONTROL Non-intrusive gaze tracking using artificial neural networks
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 CONTROLLED ATMOSPHERES Atmosphere quality standards in manned spece vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTROLLERS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 CONVULSIONS Monitor for status epilepticus seizures p 218 N94-30460 COOLING SYSTEMS A review of microclimate cooling systems in the	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures p 226 N94-30799 E EATING Effect of food intake on skin vasomotor responses to head-up tilt in humans p 212 N94-28854 ECHOCARDIOGRAPHY Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 EDGE DETECTION Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EYE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EYE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 FABRICS Analysis and design of inflatable aerospace structures p 226 N94-30799 FACE (ANATOMY) Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 FEEDPORWARD CONTROL Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of anakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 CONTROLLED ATMOSPHERES Atmosphere quality standards in manned space vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTROLLERS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 CONVULSIONS Monitor for status epilepticus seizures p 218 N94-30460 COOLING SYSTEMS A review of microclimate cooling systems in the chemical, biological, radiological environment	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures p 226 N94-30799 E EATING Effect of food intake on akin vasomotor responses to head-up tilt in humans p 212 N94-28854 ECHOCARDIOGRAPHY Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 EDGE DETECTION Use of snakes to link edge points to create left ventricular	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EYE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EYE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 FABRICS Analysis and design of inflatable aerospace structures p 226 N94-30799 FACE (ANATOMY) Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 FEEDFORWARD CONTROL Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 FERMENTATION
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 CONTROLLED ATMOSPHERES Atmosphere quality standards in manned space vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTROLLERS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30460 CONVULSIONS Monitor for status epilepticus setzures p 218 N94-30460 COOLING SYSTEMS A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] p 226 N94-31302	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures p 226 N94-30799 E EATING Effect of food intake on skin vasomotor responses to head-up tilt in humans p 212 N94-28854 ECHOCARDIOGRAPHY Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 EDGE DETECTION Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EVE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EVE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 FABRICS Analysis and design of inflatable aerospace structures p 226 N94-30799 FACE (ANATOMY) Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 FEEDFORWARD CONTROL Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 FERMENTATION One carbon metabolism in anaerobic bacteria:
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 CONTROLLED ATMOSPHERES Atmosphere quality standards in manned space vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTROLLERS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 CONVULSIONS Monitor for status epilepticus seizures p 218 N94-30460 COOLING SYSTEMS A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] p 226 N94-31302	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures p 226 N94-30799 E EATING Effect of food intake on skin vasomotor responses to head-up tilt in humans p 212 N94-28854 ECHOCARDIOGRAPHY Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 EDGE DETECTION Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EYE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EYE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 FABRICS Analysis and design of inflatable aerospace structures p 226 N94-30799 FACE (ANATOMY) Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 FEEDFORWARD CONTROL Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 FERMENTATION One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 CONTROLLED ATMOSPHERES Atmosphere quality standards in manned space vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTROLLERS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30460 CONVULSIONS Monitor for status epilepticus setzures p 218 N94-30460 COOLING SYSTEMS A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] p 226 N94-31302	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures p 226 N94-30799 E EATING Effect of food intake on skin vasomotor responses to head-up tilt in humans p 212 N94-28854 ECHOCARDIOGRAPHY Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 EDGE DETECTION Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 EGGS	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EVE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EVE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 FABRICS Analysis and design of inflatable aerospace structures p 226 N94-30799 FACE (ANATOMY) Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-28864 FEEDFORWARD CONTROL Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 FERMENTATION One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 CONTROLLED ATMOSPHERES Atmosphere quality standards in manned space vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTROLLERS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 CONVULSIONS Monitor for status epilepticus seizures p 218 N94-30460 COOLING SYSTEMS A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] p 226 N94-31302 CULTURE TECHNIQUES Stable RINA sequences as a tool for DNA probes and phylogenetic studies	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures p 226 N94-30799 E EATING Effect of food intake on skin vasomotor responses to head-up tilt in humans p 212 N94-28854 ECHOCARDIOGRAPHY Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 EDGE DETECTION Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 EGGS Japanese Journal of Aerospace and Environmental	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EVE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EVE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 FABRICS Analysis and design of inflatable aerospace structures p 226 N94-30799 FACE (ANATOMY) Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 FEEDFORWARD CONTROL Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 FERMENTATION One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 CONTROLLED ATMOSPHERES Atmosphere quality standards in manned space vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTROLLERS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 CONVULSIONS Monitor for status epilepticus seizures p 218 N94-30460 COOLING SYSTEMS A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] p 226 N94-31302 CULTURE TECHNIQUES Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures p 226 N94-30799 E E EATING Effect of food intake on skin vasomotor responses to head-up tift in humans p 212 N94-28854 ECHOCARDIOGRAPHY Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 EDGE DETECTION Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 EGGS Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EVE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EVE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 FABRICS Analysis and design of inflatable aerospace structures p 226 N94-30799 FACE (ANATOMY) Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 FEEDFORWARD CONTROL Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 FERMENTATION One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of anakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 CONTROLLED ATMOSPHERES Atmosphere quality standards in manned space vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTROLLERS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 CONVULSIONS Monitor for status epilepticus seizures Monitor for status epilepticus seizures COULING SYSTEMS A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] p 226 N94-31302 CULTURE TECHNIQUES Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-13423] p 208 N94-29156	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures p 226 N94-30799 E EATING Effect of food intake on skin vasomotor responses to head-up tilt in humans p 212 N94-28854 ECHOCARDIOGRAPHY Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 EDGE DETECTION Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 EGGGS Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of chronic centrifugation on in vitro fertilitization	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EVE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EVE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 FABRICS Analysis and design of inflatable aerospace structures p 226 N94-30799 FACE (ANATOMY) Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-28864 FEEDFORWARD CONTROL Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 FERMENTATION One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 FERTILIZATION Japanese Journal of Aerospace and Environmental
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 CONTROLLED ATMOSPHERES Atmosphere quality standards in manned space vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTROLLERS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 CONVULSIONS Monitor for status epilepticus seizures p 218 N94-30460 COOLING SYSTEMS A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] p 226 N94-31302 CULTURE TECHNIQUES Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures p 226 N94-30799 E EATING Effect of food intake on skin vasomotor responses to head-up tilt in humans p 212 N94-28854 ECHOCARDIOGRAPHY Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 EDGE DETECTION Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 EGGS Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 217 N94-28850 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EVE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EVE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 FABRICS Analysis and design of inflatable aerospace structures p 226 N94-30799 FACE (ANATOMY) Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 FEEDFORWARD CONTROL Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 FERMENTATION One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 FERTILIZATION Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (hYAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 CONTROLLED ATMOSPHERES Atmosphere quality standards in manned space vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTROLLERS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 CONVILIZIONS Monitor for status epilepticus seizures p 218 N94-30460 COOLING SYSTEMS A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] CULTURE TECHNIQUES Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 CYANIDES Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation,	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures p 226 N94-30799 E E EATING Effect of food intake on skin vasomotor responses to head-up tilt in humans p 212 N94-28854 ECHOCARDIOGRAPHY Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 EGGS Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of chronic centrifugation on in vitro fertiliization and early development in mice ova p 207 N94-28853 ELECTROCARDIOGRAPHY	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EVE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EVE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 FABRICS Analysis and design of inflatable aerospace structures p 226 N94-30799 FACE (ANATOMY) Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 FEEDFORWARD CONTROL Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 FERMENTATION One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 FERTILIZATION Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-84-80598] p 212 N94-28850
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 CONTROLLED ATMOSPHERES Atmosphere quality standards in manned spece vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTROLLERS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 CONVULSIONS Monitor for status epilepticus seizures Monitor for status epilepticus seizures A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A278446] p 226 N94-31302 CULTURE TECHNIQUES Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 CYANIDES Toxicity of carbon monoxide-hydrogen cyanide gas mictures: Exposure concentration, time-to-incspacitation, carboxyhemoglobin, and blood cyanide parameters	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures p 226 N94-30799 E EATING Effect of food intake on akin vasomotor responses to head-up tilt in humans p 212 N94-28854 ECHOCARDIOGRAPHY Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 EDGE DETECTION Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 EGGS Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80558] p 212 N94-28850 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 ELECTROCARDIOGRAPHY Relaxed tolerance following HSG, high sustained + Gz	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EVE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EVE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 FABRICS Analysis and design of inflatable aerospace structures p 226 N94-30799 FACE (ANATOMY) Effects of make-up on the heat transfer from the head in hyperthemic conditions p 216 N94-28864 FEEDFORWARD CONTROL Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 218 N94-28860 FERMENTATION One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 FERTILIZATION Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of chronic centrifugation on in vitro fertilization
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (hYAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 CONTROLLED ATMOSPHERES Atmosphere quality standards in manned space vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTROLLERS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 CONVILIZIONS Monitor for status epilepticus seizures p 218 N94-30460 COOLING SYSTEMS A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] CULTURE TECHNIQUES Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 CYANIDES Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation,	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures p 226 N94-30799 E EATING Effect of food intake on skin vasomotor responses to head-up tilt in humans p 212 N94-28854 ECHOCARDIOGRAPHY Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 EGGS Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 ELECTROCARDIOGRAPHY Relaxed tolerance following HSG, high sustained + Gz p 213 N94-28892	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EVE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EVE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 FABRICS Analysis and design of inflatable aerospace structures p 226 N94-30799 FACE (ANATOMY) Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 FEEDFORWARD CONTROL Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 FERMENTATION One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 FERTILIZATION Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of chronic centrifugation on in vitro fertilization and earry development in mice ova p 207 N94-28853
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 CONTROLLED ATMOSPHERES Atmosphere quality standards in manned spece vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTROLLERS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 CONVULSIONS Monitor for status epilepticus seizures Monitor for status epilepticus seizures A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A278446] p 226 N94-31302 CULTURE TECHNIQUES Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 CYANIDES Toxicity of carbon monoxide-hydrogen cyanide gas mictures: Exposure concentration, time-to-incspacitation, carboxyhemoglobin, and blood cyanide parameters	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures p 226 N94-30799 E E EATING Effect of food intake on skin vasomotor responses to head-up tilt in humans p 212 N94-28854 ECHOCARDIOGRAPHY Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 EGGS Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 217 N94-28850 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 ELECTROCARDIOGRAPHY Relaxed tolerance following HSG, high sustained + Gz [AD-A275204] ELECTRON EMISSION	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EVE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EVE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 FABRICS Analysis and design of inflatable aerospace structures p 226 N94-30799 FACE (ANATOMY) Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 FEEDFORWARD CONTROL Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 FERMENTATION One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DS4-004852] p 211 N94-30180 FERTILIZATION Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 CONTROLLED ATMOSPHERES Atmosphere quality standards in manned space vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTROLLERS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 CONVULSIONS Monitor for status epilepticus seizures p 218 N94-30460 COOLING SYSTEMS A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] p 226 N94-31302 CULTURE TECHNIQUES Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 CYANIDES Toxicity of carbon monoxide-hydrogen cyanide gas mictures: Exposure concentration, time-to-incapacitation, carboxyfremoglobin, and blood cyanide parameters [DOT/FAA/AM-84/7] p 216 N94-29919	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures p 226 N94-30799 E EATING Effect of food intake on akin vasomotor responses to head-up tift in humans p 212 N94-28854 ECHOCARDIOGRAPHY Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 EDGE DETECTION Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 EGGS Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 ELECTROCARDIOGRAPHY Relaxed tolerance following HSG, high sustained + Gz [AD-A275204] ELECTRON EMISSION Characteristics of secondary electron emission from Csl	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EYE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EYE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 FABRICS Analysis and design of inflatable aerospace structures p 226 N94-30799 FACE (ANATOMY) Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-28864 FEEDFORWARD CONTROL Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 FERMENTATION One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DE94-004852] p 211 N94-30180 FERTILIZATION Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 FIBERS Shortening velocity and calcium sensitivity of single
vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTOURS Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 CONTROL EQUIPMENT Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000 CONTROL SYSTEMS DESIGN Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 CONTROLLED ATMOSPHERES Atmosphere quality standards in manned spece vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 CONTROLLERS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 CONVULSIONS Monitor for status epilepticus seizures Monitor for status epilepticus seizures A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A278446] p 226 N94-31302 CULTURE TECHNIQUES Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 CYANIDES Toxicity of carbon monoxide-hydrogen cyanide gas mictures: Exposure concentration, time-to-incspacitation, carboxyhemoglobin, and blood cyanide parameters	thrombolytic drugs in microgravity p 217 N94-30453 DYNAMIC CHARACTERISTICS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC PROGRAMMING Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 DYNAMIC STRUCTURAL ANALYSIS Analysis and design of inflatable aerospace structures p 226 N94-30799 DYNAMIC TESTS Analysis and design of inflatable aerospace structures p 226 N94-30799 E E EATING Effect of food intake on skin vasomotor responses to head-up tilt in humans p 212 N94-28854 ECHOCARDIOGRAPHY Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 EGGS Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 217 N94-28850 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 ELECTROCARDIOGRAPHY Relaxed tolerance following HSG, high sustained + Gz [AD-A275204] ELECTRON EMISSION	EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 EVE (ANATOMY) Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 EVE MOVEMENTS Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 FABRICS Analysis and design of inflatable aerospace structures p 226 N94-30799 FACE (ANATOMY) Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 FEEDFORWARD CONTROL Non-intrusive gaze tracking using artificial neural networks [AD-A275186] p 219 N94-28860 FERMENTATION One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production [DS4-004852] p 211 N94-30180 FERTILIZATION Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853

ELECTRONYSTAGMOGRAPHY

Disturbance of equilibrium on JAL flight crew p 213 N94-28856

DATA TRANSMISSION

Towards simplicity: Noise and cooperation in the perfect

Effect of food intake on skin vasomotor responses to head-up tilt in humans p 212 N94-28854

FIRE FIGHTING	GOGGLES	HEARING CANADA C
Comparison of two cool vests on heat-strain reduction	An investigation of stereopsis with AN/AVS-6 night	Evaluation of monitoring audiometry in the United States Air Force Hearing Conservation Program
while wearing a firefighting ensemble in a hot/humid environment	vision goggles at varying levels of illuminance and contrast	[AD-A275309] p 215 N94-29211
[AD-A275103] p 222 N94-28902	[AD-A275332] p 222 N94-28918	HEART
Physiological responses during shipboard firefighting	GRAPHICAL USER INTERFACE	Development of the NASA/Baylor VAD p 218 N94-30458
[AD-A275104] p 214 N94-28912 FIRES	The ergonomics of computer interfaces: Designing a	HEART FUNCTION
Physiological responses during shipboard firefighting	system for human use [CWI-CS-R9258] p 225 N94-30320	Relaxed tolerance following HSG, high sustained + Gz
[AD-A275104] p 214 N94-28912	GRAVITATIONAL EFFECTS	[AD-A275204] p 213 N94-28892
FISHES	The MERSS 5th Symposium on Space Medicine:	Development of the NASA/Baylor VAD
Reproduction in the Japanese anchovy (Engraulis japonica) as related to population fluctuation	Medical and Physiological Experiment Utilizing Parabolic	p 218 N94-30458 HEART RATE
p 209 N94-29708	Flight [JTN-94-80588] p 215 N94-29709	Relaxed tolerance following HSG, high sustained + Gz
Posture control of goldfishes under microgravity	Microgravity by parabolic flight with MU-300 aircraft	[AD-A275204] p 213 N94-28892
p 209 N94-29712	p 224 N94-29710	Physiological responses during shipboard firefighting
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713	Space movement of Trichinetla spiralis under	[AD-A275104] p 214 N94-28912 Spectral analysis of heart rate and psychological state:
FLIGHT CONTROL	microgravity p 209 N94-29711	A review of its validity as a workload index
Human pilot response during single- and multi-axis	Posture control of goldfishes under microgravity	[AD-B179387] p 221 N94-30969
tracking tasks	p 209 N94-29712 Hemodynamic measurement during parabolic flight	HEAT TOLERANCE
[AD-A275080] p 220 N94-28887 FLIGHT CREWS	p 215 N94-29717	Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid
Disturbance of equilibrium on JAL flight crew	Motion sickness in parabolic flight: Possibility of	environment
p 213 N94-28856	electrogastrography as an objective index	[AD-A275103] p 222 N94-28902
Relaxed tolerance following HSG, high sustained +Gz	p 215 N94-29718	Effects of endurance training on heat-exercise tolerance
[AD-A275204] p 213 N94-28892 Comparative centrifuge evaluation of the Air Force	Japanese Journal of Aerospace and Environmental Medicine, vol. 30, no. 2	in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049
Advanced Technology Anti-G Suit (ATAGS) and the Navy	[JTN-94-80599] p 215 N94-29863	HELICOPTERS
Enhanced Anti-G Lower Ensemble (EAGLE)	Effect of water immersion on muscle sympathetic nerve	An investigation of stereopsis with AN/AVS-6 night
[AD-A275348] p 222 N94-28996	response during static muscle contraction	vision goggles at varying levels of illuminance and
Situational awareness: A feasibility investigation of	p 216 N94-29865	contrast [AD-A275332] p 222 N94-28918
near-threshold skills development [AD-A276467] p 221 N94-31243	Physiological Anatomical Rodent Experiment (PARE) .04	HEMODYNAMICS
FLIGHT SIMULATION	feasibility test 2 [NASA-CR-195210] p 210 N94-29968	Hemodynamic measurement during parabolic flight
Physiological Anatomical Rodent Experiment (PARE) .04	Microencapsulation of anti-tumor, antibiotic and	p 215 N94-29717
feasibility test 2	thrombolytic drugs in microgravity p 217 N94-30453	HIGH TEMPERATURE
[NASA-CR-195210] p 210 N94-29968 FLIGHT TESTS	GRAVITATIONAL PHYSIOLOGY	Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid
Microgravity by parabolic flight with MU-300 aircraft	Japanese Journal of Aerospace and Environmental	environment
p 224 N94-29710	Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850	[AD-A275103] p 222 N94-28902
PROTECTION OF TRANSPORTED PROTECTION OF THE PROTECTION OF TRANSPORTED	Image technology and information analysis of bone	HORMONES
Remote control of transcranial Doppler (TCD) probe during centrifuge exposures up to 9 +Gz	change with gravitational exposure p 212 N94-28851	Plant-microbe interactions: Plant hormone production by phylloplane fungi
[AD-A275253] p 223 N94-29029	Arterial oxygen saturation during +Gz acceleration by	[PB94-135563] p 208 N94-29189
FOOD PRODUCTION (IN SPACE)	short-radius centrifuge p 212 N94-28852	A fuzzy logic controller for hormone administration using
Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992	Effect of chronic centrifugation on in vitro fertilization	an implantable pump p 218 N94-30459 HOSPITALS
[NASA-CR-4603] p 224 N94-30122	and early development in mice ova p 207 N94-28853	Clinical investigation program
	Basic understanding of vertigo p 213 N94-28855	[AD-A275025] p 214 N94-29116
FOURIER TRANSFORMATION	Beleved telegrapes following HSG, bish suprained ± Gr	(NONE13023) P 214 1134-23110
Dual use of image based tracking techniques: Laser eye	Relaxed tolerance following HSG, high sustained +Gz {AD-A275204} p 213 N94-28892	HUMAN BEINGS
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455	Relaxed tolerance following HSG, high sustained +Gz [AD-A275204] p 213 N94-28892 Portable Linear Sled (PLS) for biomedical research	HUMAN BEINGS A discussion of eye-head coordinative movement under
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI	[AD-A275204] p 213 N94-28892	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Ptant-microbe interactions: Ptant hormone production by phylloplane fungi	[AD-A275204] p 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under	HUMAN BEINGS A discussion of eye-head coordinative movement under
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylloplane fungi [PB94-135563] p 208 N94-29169	[AD-A275204] p 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylloplane fungi [P894-135563] p 208 N94-29189 FUZZY SYSTEMS	[AD-A275204] p 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylloplane fungi [PB94-135563] p 208 N94-29169	[AD-A275204] p 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] P 214 N94-29049 HUMAN FACTORS ENGINEERING
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N84-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylloplane tungi [PB94-135563] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using	[AD-A275204] p 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight p 221 N94-29716	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Ptant-microbe interactions: Ptant hormone production by phylloptane fungi [PB94-135563] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459	[AD-A275204] p 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 Shortening velocity and calcium sensitivity of single	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 HUMAN FACTORS ENGINEERING Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N84-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylloplane tungi [PB94-135563] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using	[AD-A275204] p 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing p 214 N94-29049 HUMAN FACTORS ENGINEERING Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Ptant-microbe interactions: Ptant hormone production by phylloptane fungi [PB94-135563] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459	[AD-A275204] p 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biotogical activity parameters during parabolic flight p 221 N94-29716 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-29866	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 HUMAN FACTORS ENGINEERING Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N84-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylloplane tungi [PB94-135563] p 208 N94-29169 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 G GENES Role of x ray-induced transcripts in adaptive responses	[AD-A275204] p 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 HUMAN FACTORS ENGINEERING Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 Relaxed tolerance following HSG, high sustained + Gz [AD-A275204] p 213 N94-28892 Procedures and metrics for anti-G suit evaluations
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylioplane tungi [PB94-135563] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 G GENES Role of x ray-induced transcripts in adaptive responses following x rays	[AD-A275204] p 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-29866 GRAVITROPISM Cellutar polarity and interactions in plant graviperception	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 HUMAN FACTORS ENGINEERING Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 Relaxed tolerance following HSG, high sustained + Gz [AD-A275204] p 213 N94-28992 Procedures and metrics for anti-G suit evaluations [AD-A275349] p 223 N94-28997
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Plant-microbe interactions: Ptant hormone production by phylioplane tungi [P894-135563] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 G GENES Role of x ray-induced transcripts in adaptive responses tollowing x rays [DE94-005412] p 211 N94-30895	[AD-A275204] p 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity a discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-29866 GRAVITROPISM Celtular polarity and interactions in plant graviperception [NASA-CR-195261] p 210 N94-29843	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 HUMAN FACTORS ENGINEERING Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 Relaxed tolerance following HSG, high sustained + Gz [AD-A275204] p 213 N94-28992 Procedures and metrics for anti-G suit evaluations [AD-A275349] p 223 N94-28997 Stress and ergonomic design and evaluation of
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylloplane fungi [P894-135583] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 G GENES Role of x ray-induced transcripts in adaptive responses following x rays [DE94-005412] p 211 N94-30895 GENETIC CODE	[AD-A275204] p 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-29866 GRAVITROPISM Celtular polarity and interactions in plant graviperception [NASA-CR-195281] p 210 N94-29943 GROWTH	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 HUMAN FACTORS ENGINEERING Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 Relaxed tolerance following HSG, high sustained + Gz [AD-A275204] p 213 N94-28992 Procedures and metrics for anti-G suit evaluations [AD-A275349] p 223 N94-28997
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylioplane fungi [PB94-135563] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 G GENES Role of x ray-induced transcripts in adaptive responses following x rays [DE94-005412] p 211 N94-30895 GENETIC CODE Stable RNA sequences as a tool for DNA probes and phylogenetic studies	[AD-A275204] p 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity a discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-29866 GRAVITROPISM Celtular polarity and interactions in plant graviperception [NASA-CR-195261] p 210 N94-29843	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 HUMAN FACTORS ENGINEERING Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 Relaxed tolerance following HSG, high sustained + Gz [AD-A275204] p 213 N94-28992 Procedures and metrics for anti-G suit evaluations [AD-A275349] p 223 N94-28997 Stress and ergonomic design and evaluation of person-machine systems [AD-A275156] p 223 N94-29034 The use of task network simulation in workload
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N84-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylioplane fungi [P894-135563] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 G GENES Role of x ray-induced transcripts in adaptive responses following x rays [DE94-005412] p 211 N94-30895 GENETIC CODE Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156	[AD-A275204] p 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-29866 GRAVITROPISM Celtular polarity and interactions in plant graviperception [NASA-CR-195261] p 210 N94-29943 GROWTH Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80558] p 212 N94-28850	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 HUMAN FACTORS ENGINEERING Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 Relaxed tolerance following HSG, high sustained + Gz p 213 N94-28992 Procedures and metrics for anti-G suit evaluations [AD-A275349] p 223 N94-28997 Stress and ergonomic design and evaluation of person-machine systems [AD-A275166] p 223 N94-29034 The use of task network simulation in workload prediction
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylioplane tungi [PB94-135563] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 G GENES Role of x ray-induced transcripts in adaptive responses following x rays [DE94-05412] p 211 N94-30895 GENETIC CODE Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC ENGINEERING	[AD-A275204] p 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-29866 GRAVITROPISM Celtular polarity and interactions in plant graviperception [NASA-CR-195261] p 210 N94-29943 GROWTH Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of chronic centrifugation on in vitro fertilization	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 HUMAN FACTORS ENGINEERING Designing tor performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 Relaxed tolerance following HSG, high sustained + Gz [AD-A275204] p 213 N94-28892 Procedures and metrics for anti-G suit evaluations [AD-A275349] stress and ergonomic design and evaluation of perforn-machine systems [AD-A275166] p 223 N94-29034 The use of task network simulation in workload prediction [DCIEM-92-32] p 224 N94-30132
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylioplane tungi [PB94-135563] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 G GENES Role of x ray-induced transcripts in adaptive responses tollowing x rays [DE94-005412] p 211 N94-30895 GENETIC CODE Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC ENGINEERING Stable RNA sequences as a tool for DNA probes and Stable RNA sequences as a tool for DNA probes and Stable RNA sequences as a tool for DNA probes and	[AD-A275204] p 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-29866 GRAVITROPISM Celtular polarity and interactions in plant graviperception [NASA-CR-195261] p 210 N94-29943 GROWTH Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80558] p 212 N94-28850	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 HUMAN FACTORS ENGINEERING Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 Relaxed tolerance following HSG, high sustained + Gz [AD-A275349] p 223 N94-28997 Stress and ergonomic design and evaluation of person-machine systems [AD-A275166] p 223 N94-29034 The use of task network simulation in workload prediction [DCIEM-92-32] p 224 N94-30132 Tactility as a function of grasp force: Effects of glove,
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylioplane tungi [PB94-135563] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 G GENES Role of x ray-induced transcripts in adaptive responses following x rays [DE94-05412] p 211 N94-30895 GENETIC CODE Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC ENGINEERING	[AD-A275204] p 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biotogical activity parameters during parabolic flight p 221 N94-29716 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-29866 GRAVITROPISM Cellutar polarity and interactions in plant graviperception [NASA-CR-195261] p 210 N94-29943 GROWTH Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of chronic centrifugation on in vitro tertilization and early development in mice ova p 207 N94-28853	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 HUMAN FACTORS ENGINEERING Designing tor performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 Relaxed tolerance following HSG, high sustained + Gz [AD-A275204] p 213 N94-28892 Procedures and metrics for anti-G suit evaluations [AD-A275349] stress and ergonomic design and evaluation of perforn-machine systems [AD-A275166] p 223 N94-29034 The use of task network simulation in workload prediction [DCIEM-92-32] p 224 N94-30132
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylioplane tungi [PB94-135463] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 G GENES Role of x ray-induced transcripts in adaptive responses following x rays [DE94-05412] p 211 N94-30895 GENETIC CODE Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC EMGINEERING Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC EMGINEERING Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC S	[AD-A275204] p 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-29866 GRAVITROPISM Celtular polarity and interactions in plant graviperception [NASA-CR-195261] p 210 N94-29943 GROWTH Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of chronic centrifugation on in vitro fertilization	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 HUMAN FACTORS ENGINEERING Designing tor performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 Relaxed tolerance following HSG, high sustained + Gz [AD-A275204] p 213 N94-28892 Procedures and metrics for anti-G suit evaluations [AD-A275349] p 223 N94-28997 Stress and ergonomic design and evaluation of person-machine systems [AD-A275186] p 223 N94-29034 The use of task network simulation in workload prediction [DCIEM-92-32] p 224 N94-30132 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NSA-TP-3474] p 225 N94-30210 The ergonomics of computer interfaces: Designing a
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylioplane fungi [PB94-135563] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 G GENES Role of x ray-induced transcripts in adaptive responses following x rays [DE94-005412] p 211 N94-30895 GENETIC CODE Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC ENGINEERING Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETICS Effects of pressure on membrane-associated receptors	P 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-29866 GRAVITROPISM Celtular polarity and interactions in plant graviperception [NASA-CR-195261] p 210 N94-29943 GROWTH Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 HUMAN FACTORS ENGINEERING Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 Relaxed tolerance following HSG, high sustained + Gz [AD-A275204] p 213 N94-28892 Procedures and metrics for anti-G suit evaluations [AD-A275349] p 223 N94-28997 Stress and ergonomic design and evaluation of person-machine systems [AD-A275156] p 223 N94-29034 The use of task network simulation in workload prediction [DCIEM-92-32] p 224 N94-30132 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 The ergonomics of computer interfaces: Designing a system for human use
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N84-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylioplane fungi [P894-135563] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 G GENES Role of x ray-induced transcripts in adaptive responses following x rays [DE94-005412] p 211 N94-30895 GENETIC CODE Stable RNA sequences as a tool for DNA probes and phylogenetic studies [P894-135423] p 208 N94-29156 GENETIC ENGINEERING Stable RNA sequences as a tool for DNA probes and phylogenetic studies [P894-135423] p 208 N94-29156 GENETICS GENETICS GENETICS Stable RNA sequences as a tool for DNA probes and phylogenetic studies [P894-135423] p 208 N94-29156 GENETICS Effects of pressure on membrane-associated receptors and effector elements	P 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29713 Analysis of various biotogical activity parameters during parabolic flight p 221 N94-29716 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-29866 GRAVITROPISM Cellutar polarity and interactions in plant graviperception [NASA-CR-195261] p 210 N94-29943 GROWTH Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of chronic centrifugation on in vitro tertilization and early development in mice ova p 207 N94-28853	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 HUMAN FACTORS ENGINEERING Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 Relaxed tolerance following HSG, high sustained + Gz [AD-A275204] p 213 N94-28992 Procedures and metrics for anti-G suit evaluations [AD-A275349] p 223 N94-28997 Stress and ergonomic design and evaluation of person-machine systems [AD-A275156] p 223 N94-29034 The use of task network simulation in workload prediction [DCIEM-92-32] p 224 N94-30132 Tactifity as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 The ergonomics of computer interfaces: Designing a system for human use [CWI-CS-R9258] p 225 N94-30320
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylioplane tungi [PB94-135563] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 G GENES Role of x ray-induced transcripts in adaptive responses following x rays [DE94-005412] p 211 N94-30895 GENETIC CODE Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC ENGINEERING Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETICS Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-2829	AD-A275204] p 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-29866 GRAVITROPISM Celtular polarity and interactions in plant graviperception [NASA-CR-195261] p 210 N94-29943 GROWTH Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 H HAND (ANATOMY) Minimization of carpal turnel syndrome [AD-A276409] p 219 N94-31363	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 HUMAN FACTORS ENGINEERING Designing tor performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 Relaxed tolerance following HSG, high sustained + Gz p 213 N94-28892 Procedures and metrics for anti-G suit evaluations [AD-A275349] p 223 N94-28997 Stress and ergonomic design and evaluation of person-machine systems [AD-A275166] p 223 N94-29034 The use of task network simulation in workload prediction [DCIEM-92-32] p 224 N94-30132 Tactiffly as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 The ergonomics of computer interfaces: Designing a system for human use [CWI-CS-R9258] p 225 N94-30320 A review of microclimate cooling systems in the
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylioplane fungi [P894-135563] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 G GENES Role of x ray-induced transcripts in adaptive responses following x rays [DE94-005412] p 211 N94-30895 GENETIC CODE Stable RNA sequences as a tool for DNA probes and phylogenetic studies [P894-135423] p 208 N94-29156 GENETIC ENGINEERING Stable RNA sequences as a tool for DNA probes and phylogenetic studies [P894-135423] p 208 N94-29156 GENETICS GENETICS GENETICS Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Physiology and molecular-genetics of thermus and bacillus	AD-A275204] p 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-29866 GRAVITROPISM Celtuar polarity and interactions in plant graviperception [NASA-CR-195281] p 210 N94-29943 GROWTH Japanese Journal of Aerospace and Environmental Medicine, votume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 H MAND (ANATOMY) Minimization of carpal turnel syndrome [AD-A276409] p 219 N94-31363 HEAD (ANATOMY)	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 HUMAN FACTORS ENGINEERING Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 Relaxed tolerance following HSG, high sustained + Gz [AD-A275204] p 213 N94-28992 Procedures and metrics for anti-G suit evaluations [AD-A275349] p 223 N94-28997 Stress and ergonomic design and evaluation of person-machine systems [AD-A275156] p 223 N94-29034 The use of task network simulation in workload prediction [DCIEM-92-32] p 224 N94-30132 Tactifity as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 The ergonomics of computer interfaces: Designing a system for human use [CWI-CS-R9258] p 225 N94-30320
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylioplane tungi [PB94-135563] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 G GENES Role of x ray-induced transcripts in adaptive responses following x rays [DE94-005412] p 211 N94-30895 GENETIC CODE Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC ENGINEERING Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC ENGINEERING Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETICS Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Physiology and molecular-genetics of thermus and bacillus [PB94-135571] p 208 N94-29190	P 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-29866 GRAVITROPISM Cellutar polarity and interactions in plant graviperception [NASA-CR-195261] p 210 N94-29843 GROWTH Japanese Journal of Aerospace and Environmental Medicine, votume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of chronic centrifugation on in vitro tertilization and early development in mice ova p 207 N94-28853 H NAND (ANATOMY) Minimization of carpal tunnel syndrome [AD-276409] p 219 N94-31363 HEAD (ANATOMY) Japanese Journal of Aerospace and Environmental	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight P 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] P 214 N94-29049 HUMAN FACTORS ENGINEERING Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] P 222 N94-28861 Relaxed tolerance following HSG, high sustained + Gz [AD-A275204] Procedures and metrics for anti-G suit evaluations [AD-A275349] Stress and ergonomic design and evaluation of person-machine systems [AD-A275166] The use of task network simulation in workload prediction [DCIEM-92-32] Tactiffy as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] P 225 N94-30210 The ergonomics of computer interfaces: Designing a system for human use [CWI-CS-R9258] P 225 N94-30320 A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] P 226 N94-31302
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylioplane tungi [PB94-135563] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 G GENES Role of x ray-induced transcripts in adaptive responses following x rays [DE94-005412] p 211 N94-30895 GENETIC CODE Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC EMGINEERING Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC EMGINEERING Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC S Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Physiology and molecular-genetics of thermus and bacillus [PB94-135571] p 208 N94-29190 GEOMETRY	AD-A275204] p 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-29866 GRAVITROPISM Celtuar polarity and interactions in plant graviperception [NASA-CR-195281] p 210 N94-29943 GROWTH Japanese Journal of Aerospace and Environmental Medicine, votume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 H MAND (ANATOMY) Minimization of carpal turnel syndrome [AD-A276409] p 219 N94-31363 HEAD (ANATOMY)	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 HUMAN FACTORS ENGINEERING Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 Relaxed tolerance following HSG, high sustained + Gz [AD-A275349] p 213 N94-28892 Procedures and metrics for anti-G suit evaluations [AD-A275349] p 223 N94-28997 Stress and ergonomic design and evaluation of person-machine systems [AD-A275186] p 223 N94-29034 The use of task network simulation in workload prediction [DCIEM-92-32] p 224 N94-30132 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 The ergonomics of computer interfaces: Designing a system for human use [CWI-CS-R9258] p 225 N94-30320 A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276409] p 219 N94-31363
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylioplane fungi [PB94-135563] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 G GENES Role of x ray-induced transcripts in adaptive responses following x rays [DE94-005412] p 211 N94-30895 GENETIC CODE Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC ENGINEERING Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETICS Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Physiology and molecular-genetics of thermus and bacillus [PB94-135571] p 208 N94-29190 GEOMETRY Interactive reconstruction of anatomical structures with	P 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-29866 GRAVITROPISM Cellutar polarity and interactions in plant graviperception [NASA-CR-195261] p 210 N94-29843 GROWTH Japanese Journal of Aerospace and Environmental Medicine, votume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of chronic centrifugation on in vitro tertilization and early development in misce ova p 207 N94-28853 HAND (ANATOMY) Minimization of carpal turnel syndrome [AD-276409] p 219 N94-31363 HEAD (ANATOMY) Japanese Journal of Aerospace and Environmental Medicine, votume 30, no. 1 [JTN-94-80598] p 212 N94-28850 HEAD (ANATOMY) Japanese Journal of Aerospace and Environmental Medicine, votume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of food intake on skin vasomotor responses to	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 HUMAN FACTORS ENGINEERING Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 Relaxed tolerance following HSG, high sustained + Gz [AD-A275349] p 223 N94-28892 Procedures and metrics for anti-G suit evaluations [AD-A275349] p 223 N94-28997 Stress and ergonomic design and evaluation of person-machine systems [AD-A275186] p 223 N94-29034 The use of task network simulation in workload prediction [DCIEM-92-32] p 224 N94-30132 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 The ergonomics of computer interfaces: Designing a system for human use [CWI-CS-R9258] p 225 N94-30320 A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276409] p 219 N94-31363
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylioplane tungi [PB94-135563] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 G GENES Role of x ray-induced transcripts in adaptive responses following x rays [DE94-005412] p 211 N94-30895 GENETIC CODE Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC EMGINEERING Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC EMGINEERING Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC S Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Physiology and molecular-genetics of thermus and bacillus [PB94-135571] p 208 N94-29190 GEOMETRY	AD-A275204 p 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-29866 GRAVITROPISM Celtular polarity and interactions in plant graviperception N94-29943 GROWTH Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 JTN-94-80598] p 212 N94-28850 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 HAND (ANATOMY) Minimization of carpal turnel syndrome (AD-A276409) p 219 N94-31363 HEAD (ANATOMY) Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 JTN-94-805981 p 212 N94-28850 Effect of food intake on skin vasomotor responses to head-up tit in humans p 212 N94-28854	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight P 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] HUMAN FACTORS ENGINEERING Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] Relaxed tolerance following HSG, high sustained + Gz [AD-A275204] Procedures and metrics for anti-G suit evaluations [AD-A275349] Stress and ergonomic design and evaluation of person-machine systems [AD-A275166] P 223 N94-28997 Stress and ergonomic design and evaluation of person-machine systems [AD-A275166] P 223 N94-29034 The use of task network simulation in workload prediction [DCIEM-92-32] Tactiffy as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] P 225 N94-30210 The ergonomics of computer interfaces: Designing a system for human use [CWI-CS-R9258] P 225 N94-30320 A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] P 226 N94-31302 Minimization of carpat tunnel syndrome [AD-A276446] P 219 N94-31363 HUMAN PERFORMANCE Disturbance of equilibrium on JAL flight crew
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylioplane tungi [PB94-135563] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 G GENES Role of x ray-induced transcripts in adaptive responses following x rays [DE94-005412] p 211 N94-30895 GENETIC CODE Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC ENGINEERING Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETICS Effects of pressure on membrane-associated receptors and effector elements [AD-A275613] p 207 N94-28829 Physiology and molecular-genetics of thermus and bacillas [PB94-135571] p 208 N94-29190 GEOMETRY Interactive reconstruction of anatomical structures with tree-form surfaces [TELECOM-83-E-002] p 219 N94-31195	P 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity — p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight — p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight — p 221 N94-29716 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-29866 GRAVITROPISM Celtular polarity and interactions in plant graviperception [NASA-CR-195281] — p 210 N94-29943 GROWTH Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] — p 212 N94-28850 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova — p 207 N94-28853 H NAND (ANATOMY) Alapanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] — p 212 N94-28850 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova — p 207 N94-28853 H NAND (ANATOMY) Apanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] — p 212 N94-28850 Effect of tool intake on skin vasomotor responses to head-up tit in humans — p 213 N94-28855	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 HUMAN FACTORS ENGINEERING Designing tor performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 Relaxed tolerance following HSG, high sustained + Gz p 213 N94-28892 Procedures and metrics for anti-G suit evaluations [AD-A275349] p 223 N94-28997 Stress and ergonomic design and evaluation of person-machine systems [AD-A275166] p 223 N94-29034 The use of task network simulation in workload prediction [DCIEM-92-32] p 224 N94-30132 Tactifity as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 The ergonomics of computer interfaces: Designing a system for human use [CWI-CS-R9259] p 225 N94-30320 A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] p 219 N94-31363 HUMAN PERFORMANCE Disturbance of equilibrium on JAL flight crew p 213 N94-28856
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylioplane fungi [PB94-135563] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 G GENES Role of x ray-induced transcripts in adaptive responses following x rays [DE94-005412] p 211 N94-30895 GENETIC CODE Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC EngliNEERING Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETICS Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Physiology and molecular-genetics of thermus and bacillus [PB94-135571] p 208 N94-29190 GEOMETRY Interactive reconstruction of anatomical structures with tree-form surfaces [TELECOM-83-E-002] p 219 N94-31195 GERMINATION Seed viability detection using computerized false-color	AD-A275204 p 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-29866 GRAVITROPISM Celtular polarity and interactions in plant graviperception N94-29943 GROWTH Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 JTN-94-80598] p 212 N94-28850 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 HAND (ANATOMY) Minimization of carpal turnel syndrome (AD-A276409) p 219 N94-31363 HEAD (ANATOMY) Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 JTN-94-805981 p 212 N94-28850 Effect of food intake on skin vasomotor responses to head-up tit in humans p 212 N94-28854	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 HUMAN FACTORS ENGINEERING Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 Relaxed tolerance following HSG, high sustained + Gz [AD-A275204] p 213 N94-28892 Procedures and metrics for anti-G suit evaluations [AD-A275349] p 223 N94-28997 Stress and ergonomic design and evaluation of person-machine systems [AD-A275156] p 223 N94-29034 The use of task network simulation in workload prediction [DCIEM-92-32] p 224 N94-30132 Tactifity as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 The ergonomics of computer interfaces: Designing a system for human use [CWI-CS-R9258] p 225 N94-30320 A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] p 226 N94-31302 Minimization of carpal tunnel syndrome [AD-A276409] p 219 N94-31363 HUMAN PERFORMANCE Disturbance of equilibrium on JAL flight crew p 213 N94-28856
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylioplane tungi [PB94-135563] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 G GENES Role of x ray-induced transcripts in adaptive responses following x rays [DE94-005412] p 211 N94-30895 GENETIC CODE Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC ENGINEERING Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETICS Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Physiology and molecular-genetics of thermus and bacillus [PB94-135571] p 208 N94-29190 GEOMETRY Interactive reconstruction of anatomical structures with tree-form surfaces [TELECOM-83-E-002] p 219 N94-31195 GERMINATION Seed viability detection using computerized false-color radiographic image enhancement p 211 N94-30-851	P 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity — p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight — p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight — p 221 N94-29716 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-29866 GRAVITROPISM Celtular polarity and interactions in plant graviperception [NASA-CR-195281] — p 210 N94-29943 GROWTH Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] — p 212 N94-28850 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova — p 207 N94-28850 HAND (ANATOMY) Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] — p 212 N94-28850 Effect of food intake on skin vasomotor responses to head-up tit in humans — p 212 N94-28850 Equilibrium dysfunction in the clinical field p 213 N94-28858 HEAD DOWN TILT	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight P 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] P 214 N94-29049 HUMAN FACTORS ENGINEERING Designing tor performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] P 222 N94-28861 Relaxed tolerance following HSG, high sustained + Gz [AD-A275187] P 223 N94-28892 Procedures and metrics for anti-G suit evaluations [AD-A275349] Stress and ergonomic design and evaluation of person-machine systems [AD-A275166] The use of task network simulation in workload prediction [DCIEM-92-32] Tactifity as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] P 225 N94-30210 The ergonomics of computer interfaces: Designing a system for human use [CWI-CS-R9258] A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] P 219 N94-31363 HUMAN PERFORMANCE Disturbance of equilibrium on JAL flight crew P 213 N94-28858 Scanning and monitoring performance: Effects of the
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylioplane tungi [PB94-135563] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 G GENES Role of x ray-induced transcripts in adaptive responses following x rays [DE94-005412] p 211 N94-30895 GENETIC CODE Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC ENGINEERING Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC ENGINEERING Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC S Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Physiology and molecular-genetics of thermus and bacillus [PB94-135571] p 208 N94-29190 GEOMETRY Interactive reconstruction of anatomical structures with tree-form surfaces [TELECOM-83-E-002] p 219 N94-31195 GERMINATION Seed viability detection using computerized false-color radiographic image enhancement p 211 N94-30481 GLOVES	P 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-29866 GRAVITROPISM Cellutar polarity and interactions in plant graviperception [NASA-CR-195261] p 210 N94-29943 GROWTH Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 H MAND (ANATOMY) Minimization of carpal turnnel syndrome [AD-A276409] p 219 N94-31363 HEAD (ANATOMY) Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of food intake on skin vasomotor responses to head-up tit in humans p 212 N94-28855 Equilibrium dysfunction in the clinical field p 213 N94-28858 HEAD DOWN TILT Leg muscle volume during 30-day 6-degree head-down	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight P 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] P 214 N94-29049 HUMAN FACTORS ENGINEERING Designing tor performence: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] P 222 N94-28861 Relaxed tolerance following HSG, high sustained + Gz [AD-A275204] P 223 N94-28982 Procedures and metrics for anti-G suit evaluations [AD-A275349] Stress and ergonomic design and evaluation of person-machine systems [AD-A275166] The use of task network simulation in workload prediction [DCIEM-92-32] Tactifity as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] P 225 N94-30210 The ergonomics of computer interfaces: Designing a system for human use [CWI-CS-R9258] P 225 N94-30320 A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276409] P 219 N94-31363 HUMAN PERFORMANCE Disturbance of equilibrium on JAL flight crew P 213 N94-28858 Scanning and monitoring performance: Effects of the reinforcement values of the events being monitored
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylioplane fungi [PB94-13543] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 G GENES Role of x ray-induced transcripts in adaptive responses following x rays [DE94-005412] p 211 N94-30895 GENETIC CODE Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC ENGINEERING Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETICS Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Physiology and molecular-genetics of thermus and bacillus [PB94-135571] p 208 N94-29190 GEOMETRY Interactive reconstruction of anatomical structures with tree-form surfaces [TELECOM-93-E-002] p 219 N94-31195 GEOMETRY Interactive image enhancement p 211 N94-30481 GLOVES EVA glove evaluation methodology and test protocol	P 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-29866 GRAVITROPISM Celtular polarity and interactions in plant graviperception [NASA-CR-195261] p 210 N94-29843 GROWTH Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 HAND (ANATOMY) Minimization of carpal turnel syndrome [AD-A276409] p 219 N94-31363 HEAD (ANATOMY) Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of tool intake on skin vasomotor responses to head-up tit in humans p 212 N94-28854 Basic understanding of vertigo p 213 N94-28855 Equilibrium dysfunction in the clinical field p 213 N94-28858 HEAD DOWN TILT Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 HUMAN FACTORS ENGINEERING Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 Relaxed tolerance following HSG, high sustained + Gz [AD-A275349] p 223 N94-28892 Procedures and metrics for anti-G suit evaluations [AD-A275349] p 223 N94-28997 Stress and ergonomic design and evaluation of person-machine systems [AD-A275186] p 223 N94-29034 The use of task network simulation in workload prediction [DCIEM-92-32] p 224 N94-30132 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 The ergonomics of computer interfaces: Designing a system for human use [CWI-CS-R9258] p 225 N94-30320 A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276409] p 219 N94-31363 HUMAN PERFORMANCE Disturbance of equilibrium on JAL flight crew p 213 N94-28858 Scanning and monitoring performance: Effects of the reinforcement values of the events being monitored [DOT/FAA/AM-94/8] p 221 N94-28918
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylioplane tungi [PB94-135563] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 G GENES Role of x ray-induced transcripts in adaptive responses following x rays [DE94-005412] p 211 N94-30895 GENETIC CODE Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC EMGINEERING Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC EMGINEERING Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC S Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Physiology and molecular-genetics of thermus and bacillus [PB94-135571] p 208 N94-29190 GEOMETRY Interactive reconstruction of anatomical structures with tree-form surfaces [TELECOM-83-E-002] p 219 N94-31195 GERMINATION Seed viability detection using computerized false-color radiographic image enhancement p 211 N94-30481 GLOVES EVA glove evaluation methodology and test protocol p 224 N94-29729 Tactility as a function of grasp force: Effects of glove,	P 213 N94-28892 Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-29866 GRAVITROPISM Cellutar polarity and interactions in plant graviperception [NASA-CR-195261] p 210 N94-29943 GROWTH Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 H MAND (ANATOMY) Minimization of carpal turnnel syndrome [AD-A276409] p 219 N94-31363 HEAD (ANATOMY) Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Effect of food intake on skin vasomotor responses to head-up tit in humans p 212 N94-28855 Equilibrium dysfunction in the clinical field p 213 N94-28858 HEAD DOWN TILT Leg muscle volume during 30-day 6-degree head-down	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight P 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] P 214 N94-29049 HUMAN FACTORS ENGINEERING Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] Relaxed tolerance following HSG, high sustained + Gz [AD-A275204] Procedures and metrics for anti-G suit evaluations [AD-A275349] Stress and ergonomic design and evaluation of person-machine systems [AD-A275166] The use of task network simulation in workload prediction [DCIEM-92-32] Tactiffly as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] P 225 N94-30210 The ergonomics of computer interfaces: Designing a system for human use [CWI-CS-R9258] A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] P 215 N94-31363 HUMAN PERFORMANCE Disturbance of equilibrium on JAL flight crew P 213 N94-28858 Scanning and monitoring performance: Effects of the reinforcement values of the events being monitored [DOTFAA/AM-94/8] HUMAN REACTIONS
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 FUNGI Plant-microbe interactions: Plant hormone production by phylioplane tungi [PB94-135563] p 208 N94-29189 FUZZY SYSTEMS A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459 G GENES Role of x ray-induced transcripts in adaptive responses following x rays [DE94-005412] p 211 N94-30895 GENETIC CODE Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETIC ENGINEERING Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 GENETICS Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Physiology and molecular-genetics of thermus and bacillus [PB94-135571] p 208 N94-29190 GEOMETRY Interactive reconstruction of anatomical structures with tree-form surfaces [TELECOM-93-E-002] p 219 N94-31195 GEOMETRY Interactive reconstruction using computerized false-color radiographic image enhancement p 211 N94-30481 GLOVES EVA glove evaluation methodology and test protocol p 224 N94-29729	P 213 N94-28892 Portable Linear Sled (PLS) for biomedical research	HUMAN BEINGS A discussion of eye-head coordinative movement under microgravity during parabotic flight p 220 N94-29715 HUMAN BODY Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049 HUMAN FACTORS ENGINEERING Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861 Relaxed tolerance following HSG, high sustained + Gz [AD-A275349] p 223 N94-28892 Procedures and metrics for anti-G suit evaluations [AD-A275349] p 223 N94-28997 Stress and ergonomic design and evaluation of person-machine systems [AD-A275186] p 223 N94-29034 The use of task network simulation in workload prediction [DCIEM-92-32] p 224 N94-30132 Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 The ergonomics of computer interfaces: Designing a system for human use [CWI-CS-R9258] p 225 N94-30320 A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276409] p 219 N94-31363 HUMAN PERFORMANCE Disturbance of equilibrium on JAL flight crew p 213 N94-28858 Scanning and monitoring performance: Effects of the reinforcement values of the events being monitored [DOT/FAA/AM-94/8] p 221 N94-28918

Situational awareness: A feasibility investigation of	Analysis and an image recovery algorithm for ultrasonic	MANIPULATORS
near-threshold skills development	tomography system p 217 N94-30456	Aiding the operator in the manual control of a space manipulator
[AD-A276467] p 221 N94-31243 HUMAN-COMPUTER INTERFACE	Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations	[PB94-125549] p 225 N94-30390
Designing for performance: A cognitive systems	[DE94-007042] p 219 N94-31323	MANNED SPACE FLIGHT
engineering approach to modifying an AWACS human	INDUSTRIAL SAFETY	Atmosphere quality standards in manned space
computer interface	Minimization of carpal tunnel syndrome [AD-A276409] p 219 N94-31363	vehicles
[AD-A275187] p 222 N94-28861	[AD-A276409] p 219 N94-31363 INFLATABLE STRUCTURES	[ESA-PSS-03-401-ISSUE-1] p 226 N94-31224
Aspects of the operator interface for military robotic applications in unstructured environments	Analysis and design of inflatable aerospace structures	MANUAL CONTROL Tactility as a function of grasp force: Effects of glove,
: p 225 N94-30304	p 226 N94-30799	orientation, pressure, load, and handle
The ergonomics of computer interfaces: Designing a	INFORMATION	[NASA-TP-3474] p 225 N94-30210
system for human use	Temporal and qualitative decomposition of plausible reasoning	Aiding the operator in the manual control of a space
[CWI-CS-R9258] p 225 N94-30320	[AD-A275073] p 220 N94-29154	manipulator (PB94-125549) p 225 N94-30390
HYDROCYANIC ACID	INFORMATION PROCESSING (BIOLOGY)	[PB94-125549] p 225 N94-30390 MARINE RESOURCES
Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation,	Temporal and qualitative decomposition of plausible	Reproduction in the Japanese anchovy (Engraulis
carboxyhernoglobin, and blood cyanide parameters	reasoning [AD-A275073] p 220 N94-29154	japonica) as related to population fluctuation
[DOT/FAA/AM-94/7] p 216 N94-29919	The MERSS 5th Symposium on Space Medicine:	p 209 N94-29708
TYDROGENATION	Medical and Physiological Experiment Utilizing Parabolic	MATHEMATICAL MODELS
Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carto simulations	Flight	Elements for the recognition of three dimensional deformable shapes: Application to biomedical imagery
[DE94-007042] p 219 N94-31323	[JTN-94-80588] p 215 N94-29709	[TELECOM-93-E-006] p 218 N94-30978
TYDROSTATIC PRESSURE	Analysis of various biological activity parameters during parabolic flight p 221 N94-29716	Interactive reconstruction of anatomical structures with
Effects of pressure on membrane-associated receptors	INHIBITORS	free-form surfaces
and effector elements	Plant-microbe interactions: Plant hormone production by	[TELECOM-93-E-002] p 219 N94-31195
[AD-A275813] p 207 N94-28829 HYPERBARIC CHAMBERS	phylloplane fungi	MEASURING INSTRUMENTS
Advanced seal delivery system life support parameters	[PB94-135563] p 208 N94-29189	Monitor for status epilepticus seizures
[AD-A275304] p 223 N94-29184	INJURIES	p 218 N94-30460
TYPOBARIC ATMOSPHERES	Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150	MEDICAL EQUIPMENT Composite redesion of obstetrical forcers
Decompression sickness risk versus time and altitude	INTEGRATORS	Composite redesign of obstetrical forceps p 218 N94-30457
[AD-A275261] p 214 N94-29071	Towards simplicity: Noise and cooperation in the perfect	A fuzzy logic controller for hormone administration using
HYPOKINESIA Shortening velocity and calcium sensitivity of single	integrator	an implantable pump p 218 N94-30459
fibers from hindlimb suspended muscle in rats	[AD-A276256] p 222 N94-31291	Hydrogenated amorphous silicon (a-Si:H) based gamma
p 210 N94-29866	IONIZING RADIATION	carnera: Monte Carlo simulations
, -	Role of x ray-induced transcripts in adaptive responses	[DE94-007042] p 219 N94-31323
1	following x rays [DE94-005412] p 211 N94-30895	MEDICAL SCIENCE Clinical investigation program
•	[DE01-0001.2] P211 101-0000	[AD-A275025] p 214 N94-29116
LLUMINANCE	K	MEDICAL SERVICES
An investigation of stereopsis with AN/AVS-6 night	K	Clinical investigation program
vision goggles at varying levels of illuminance and	KINESTHESIA "	[AD-A275025] p 214 N94-29116
CONTRAST	Basic understanding of vertigo p 213 N94-28855	MEMBRANES
[AD-A275332] p 222 N94-28918 MAGE ANALYSIS		Effects of pressure on membrane-associated receptors and effector elements
Image technology and information analysis of bone	1	[AD-A275813] p 207 N94-28829
change with gravitational exposure p 212 N94-28851	-	MENTAL PERFORMANCE
Elements for the recognition of three dimensional	LASER APPLICATIONS	Designing for performance: A cognitive systems
deformable shapes: Application to biomedical imagery	Dual use of image based tracking techniques: Laser eye	engineering approach to modifying an AWACS human
[TELECOM-93-E-006] p 218 N94-30978 MAGE ENHANCEMENT	surgery and low vision prosthesis p 217 N94-30455	computer interface [AD-A275187] p 222 N94-28861
Seed viability detection using computerized false-color	LEG (ANATOMY)	[AD-A275187] p 222 N94-28861 Temporal and qualitative decomposition of plausible
radiographic image enhancement p 211 N94-30461	Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training	reasoning
MAGE PROCESSING	[NASA-TM-4580] p 208 N94-29401	[AD-A275073] p 220 N94-29154
Image technology and information analysis of bone	LIFE SUPPORT SYSTEMS	Spectral analysis of heart rate and psychological state:
change with gravitational exposure p 212 N94-28851	Advanced seal delivery system life support parameters	A review of its validity as a workload index
Computer Assisted Medical Interventions: Application to Conformal Radiotherapy	[AD-A275304] p 223 N94-29184	[AD-B179387] p 221 N94-30969 MICROBIOLOGY
[RR-912-I] p 216 N94-30028	Technical assessment of Mir-1 life support hardware for	Physiology and molecular-genetics of thermus and
Conformal external radiotherapy of prostatic carcinoma:	the international space station [NASA-TM-108441] p 226 N94-31380	bacilius
Requirements and preliminary results	LIGHT (VISIBLE RADIATION)	[PB94-135571] p 208 N94-29190
p 217 N94-30029	Estimation of the net production of moss community	MICROGRAVITY
Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455	at Langhovde, East Antarctica p 207 N94-29081	Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1
Analysis and an image recovery algorithm for ultrasonic	Circadian countermeasures for shiftworkers during	[JTN-94-80598] p 212 N94-28850
tomography system p 217 N94-30456	IICMP.9- A report to mission management	
Use of snakes to link edge points to create left ventricular	USMP-2: A report to mission management FNASA_CR-1952601 p. 224 N94-30188	
	[NASA-CR-195260] p 224 N94-30188	Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851
boundaries in echocardiographic images		Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 The MERSS 5th Symposium on Space Medicine:
[TELECOM-93-D-016] p 218 N94-30970	[NASA-CR-195260] p 224 N94-30188 LINGUISTICS An architecturally-based theory of human sentence comprehension	Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic
[TELECOM-93-D-016] p 218 N94-30970 Elements for the recognition of three dimensional	[NASA-CR-195260] p 224 N94-30188 LINGUISTICS An architecturally-based theory of human sentence comprehension [AD-A275380] p 220 N94-29313	Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight
[TELECOM-93-D-016] p 218 N94-30970 Elements for the recognition of three dimensional deformable shapes: Application to biomedical imagery	[NASA-CR-195260] p 224 N94-30188 LINGUISTICS An architecturally-based theory of human sentence comprehension [AD-A275380] p 220 N94-29313 LIQUID COOLING	Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight [JTN-94-80588] p 215 N94-29709
[TELECOM-93-D-016] p 218 N94-30970 Elements for the recognition of three dimensional	[NASA-CR-195260] p 224 N94-30188 LINGUISTICS An architecturally-based theory of human sentence comprehension [AD-A275380] p 220 N94-29313 LIQUID COOLING A review of microclimate cooling systems in the	Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight
[TELECOM-93-D-016] p 218 N94-30970 Elements for the recognition of three dimensional deformable shapes: Application to biomedical imagery [TELECOM-93-E-006] p 218 N94-30978 Interactive reconstruction of anatomical structures with free-form surfaces	[NASA-CR-195260] p 224 N94-30188 LINGUISTICS An architecturally-based theory of human sentence comprehension [AD-A275380] p 220 N94-29313 LIQUID COOLING A review of microclimate cooling systems in the chemical, biological, radiological environment	Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight [JTN-94-80588] p 215 N94-29709 Microgravity by parabolic flight with MU-300 aircraft p 224 N94-29710 Space movement of Trichinella spiralis under
[TELECOM-93-D-016] p 218 N94-30970 Elements for the recognition of three dimensional deformable shapes: Application to biomedical imagery [TELECOM-93-E-006] p 218 N94-30978 Interactive reconstruction of anatomical structures with ree-form surfaces [TELECOM-93-E-002] p 219 N94-31195	[NASA-CR-195260] p 224 N94-30188 LINGUISTICS An architecturally-based theory of human sentence comprehension [AD-A275380] p 220 N94-29313 LIQUID COOLING A review of microclimate cooling systems in the	Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight [JTN-94-80588] p 215 N94-29709 Microgravity by parabolic flight with MU-300 aircraft p 224 N94-29710 Space movement of Trichinella spiralis under microgravity p 299 N94-29711
[TELECOM-93-D-016] p 218 N94-30970 Elements for the recognition of three dimensional deformable shapes: Application to biomedical imagery [TELECOM-93-E-006] p 218 N94-30978 Interactive reconstruction of anatomical structures with tree-form surfaces [TELECOM-93-E-002] p 219 N94-31195 Hydrogenated amorphous silicon (a-Si:H) based gamma	[NASA-CR-195260] p 224 N94-30188 LINGUISTICS An architecturally-based theory of human sentence comprehension [AD-A275380] p 220 N94-29313 LIQUID COOLING A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] p 226 N94-31302	Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight [JTN-94-80588] p 215 N94-29709 Microgravity by parabolic flight with MU-300 aircraft p 224 N94-29710 Space movement of Trichinella spiralis under microgravity p 209 N94-29711 Posture control of goldfishes under microgravity
[TELECOM-93-D-016] p 218 N94-30970 Elements for the recognition of three dimensional deformable shapes: Application to biomedical imagery [TELECOM-93-E-006] p 218 N94-30978 Interactive reconstruction of anatomical structures with tree-form surfaces [TELECOM-93-E-002] p 219 N94-31195 Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations	[NASA-CR-195260] p 224 N94-30188 LINGUISTICS An architecturally-based theory of human sentence comprehension [AD-A275380] p 220 N94-29313 LIQUID COOLING A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] p 226 N94-31302 LUMINOUS INTENSITY Strategies to sustain and enhance performance in streastful environments	Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight [JTN-94-80588] p 215 N94-29709 Microgravity by parabolic flight with MU-300 aircraft p 224 N94-29710 Space movement of Trichinella spiralis under microgravity p 209 N94-29711 Posture control of goldfishes under microgravity p 209 N94-29712
[TELECOM-93-D-016] p 218 N94-30970 Elements for the recognition of three dimensional deformable shapes: Application to biomedical imagery [TELECOM-93-E-006] p 218 N94-30978 Interactive reconstruction of anatomical structures with ree-form surfaces [TELECOM-93-E-002] p 219 N94-31195 Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323	[NASA-CR-195260] p 224 N94-30188 LINGUISTICS An architecturally-based theory of human sentence comprehension [AD-A275380] p 220 N94-29313 LIQUID COOLING A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] p 226 N94-31302 LUMINOUS INTENSITY Strategies to sustain and enhance performance in	Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight [JTN-94-80588] p 215 N94-29709 Microgravity by parabolic flight with MU-300 aircraft p 224 N94-29710 Space movement of Trichinella spiralis under microgravity p 209 N94-29711 Posture control of goldfishes under microgravity
[TELECOM-93-D-016] p 218 N94-30970 Elements for the recognition of three dimensional deformable shapes: Application to biomedical imagery [TELECOM-93-E-006] p 218 N94-30978 Interactive reconstruction of anatomical structures with tree-form surfaces [TELECOM-93-E-002] p 219 N94-31195 Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 MAGE RECONSTRUCTION Interactive reconstruction of anatomical structures with	[NASA-CR-195260] p 224 N94-30188 LINGUISTICS An architecturally-based theory of human sentence comprehension [AD-A275380] p 220 N94-29313 LIQUID COOLING A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] p 226 N94-31302 LUMINOUS INTENSITY Strategies to sustain and enhance performance in stressful environments [AD-A275223] p 220 N94-29027	Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight [JTN-94-8058] p 215 N94-29709 Microgravity by parabolic flight with MU-300 aircraft p 224 N94-29710 Space movement of Trichinella spiralis under microgravity p 209 N94-29711 Posture control of goldfishes under microgravity p 209 N94-29712 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under
[TELECOM-93-D-016] p 218 N94-30970 Elements for the recognition of three dimensional deformable shapes: Application to biomedical imagery [TELECOM-93-E-006] p 218 N94-30978 Interactive reconstruction of anatomical structures with tree-form surfaces [TELECOM-93-E-002] p 219 N94-31195 Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 MAGE RECONSTRUCTION Interactive reconstruction of anatomical structures with free-form surfaces	[NASA-CR-195260] p 224 N94-30188 LINGUISTICS An architecturally-based theory of human sentence comprehension [AD-A275380] p 220 N94-29313 LIQUID COOLING A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] p 226 N94-31302 LUMINOUS INTENSITY Strategies to sustain and enhance performance in streastful environments	Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight [JTN-94-80588] p 215 N94-29709 Microgravity by parabolic flight with MU-300 aircraft p 224 N94-29710 Space movement of Trichinella spiralis under microgravity p 209 N94-29711 Posture control of goldfishes under microgravity p 209 N94-29712 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29712 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715
[TELECOM-93-D-016] p 218 N94-30970 Elements for the recognition of three dimensional deformable shapes: Application to biomedical imagery p 218 N94-30978 [TELECOM-93-E-006] p 218 N94-30978 Interactive reconstruction of anatomical structures with ree-form surfaces [TELECOM-93-E-002] p 219 N94-31195 Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 MAGE RECONSTRUCTION Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195	[NASA-CR-195260] p 224 N94-30188 LINGUISTICS An architecturally-based theory of human sentence comprehension [AD-A275380] p 220 N94-29313 LIQUID COOLING A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] p 226 N94-31302 LUMINOUS INTENSITY Strategies to sustain and enhance performance in stressful environments [AD-A275223] p 220 N94-29027	Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight [JTN-94-80588] p 215 N94-29709 Microgravity by parabolic flight with MU-300 aircraft p 224 N94-29710 Space movement of Trichinella spiralis under microgravity p 209 N94-29711 Posture control of goldfishes under microgravity p 209 N94-29712 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during
[TELECOM-93-D-016] p 218 N94-30970 Elements for the recognition of three dimensional deformable shapes: Application to biomedical imagery p 218 N94-30978 [TELECOM-93-E-006] p 218 N94-30978 Interactive reconstruction of anatomical structures with tree-form surfaces [TELECOM-93-E-002] p 219 N94-31195 Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 MAGE RECONSTRUCTION Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 MAGING TECHNIQUES	[NASA-CR-195260] p 224 N94-30188 LINGUISTICS An architecturally-based theory of human sentence comprehension [AD-A275380] p 220 N94-29313 LIQUID COOLING A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] p 226 N94-31302 LUMINOUS INTENSITY Strategies to sustain and enhance performance in stressful environments [AD-A275223] p 220 N94-29027	Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight [JTN-94-80588] p 215 N94-29709 Microgravity by parabolic flight with MU-300 aircraft p 224 N94-29710 Space movement of Trichinella spiralis under microgravity p 209 N94-29711 Posture control of goldfishes under microgravity p 209 N94-29712 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight p 221 N94-29716
[TELECOM-93-D-016] p 218 N94-30970 Elements for the recognition of three dimensional deformable shapes: Application to biomedical imagery [TELECOM-93-E-006] p 218 N94-30978 Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 MAGE RECONSTRUCTION Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 MAGING TECHNIQUES Image technology and information analysis of bone	[NASA-CR-195260] p 224 N94-30188 LINGUISTICS An architecturally-based theory of human sentence comprehension [AD-A275380] p 220 N94-29313 LIQUID COOLING A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] p 226 N94-31302 LUMINOUS INTENSITY Strategies to sustain and enhance performance in stressful environments [AD-A275223] p 220 N94-29027 M MAN MACHINE SYSTEMS Stress and ergonomic design and evaluation of	Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight [JTN-94-80588] p 215 N94-29709 Microgravity by parabolic flight with MU-300 aircraft p 224 N94-29710 Space movement of Trichinella spiralis under microgravity p 209 N94-29711 Posture control of goldfishes under microgravity p 209 N94-29712 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during
[TELECOM-93-D-016] p 218 N94-30970 Elements for the recognition of three dimensional deformable shapes: Application to biomedical imagery p 218 N94-30978 [TELECOM-93-E-006] p 218 N94-30978 Interactive reconstruction of anatomical structures with tree-form surfaces [TELECOM-93-E-002] p 219 N94-31195 Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 MAGE RECONSTRUCTION Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 MAGING TECHNIQUES	[NASA-CR-195260] p 224 N94-30188 LINGUISTICS An architecturally-based theory of human sentence comprehension [AD-A275380] p 220 N94-29313 LIQUID COOLING A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] p 226 N94-31302 LUMINOUS INTENSITY Strategies to sustain and enhance performance in stressful environments [AD-A275223] p 220 N94-29027 M MAN MACHINE SYSTEMS Stress and ergonomic design and evaluation of person-machine systems	Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight [JTN-94-80588] p 215 N94-29709 Microgravity by parabolic flight with MU-300 aircraft p 224 N94-29710 Space movement of Trichinella spiralis under microgravity p 209 N94-29711 Posture control of goldfishes under microgravity p 209 N94-29712 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight Hemodynamic measurement during parabolic flight p 215 N94-29717 Motion sickness in parabolic flight: Possibility of
[TELECOM-93-D-016] p 218 N94-30970 Elements for the recognition of three dimensional deformable shapes: Application to biomedical imagery [TELECOM-93-E-006] p 218 N94-30978 Interactive reconstruction of anatomical structures with tree-form surfaces [TELECOM-93-E-002] p 219 N94-31195 Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 MAGE RECONSTRUCTION Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 MAGING TECHNIQUES Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 Computer Assisted Medical Interventions: Application to Conformal Radiotherapy	[NASA-CR-195260] p 224 N94-30188 LINGUISTICS An architecturally-based theory of human sentence comprehension [AD-A275380] p 220 N94-29313 LIQUID COOLING A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] p 226 N94-31302 LUMINOUS INTENSITY Strategies to sustain and enhance performance in streastul environments [AD-A275223] p 220 N94-29027 M MAN MACHINE SYSTEMS Stress and ergonomic design and evaluation of person-machine systems [AD-A275156] p 223 N94-29034	Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight [JTN-94-80588] p 215 N94-29709 Microgravity by parabolic flight with MU-300 aircraft p 224 N94-29710 Space movement of Trichinella spiralis under microgravity p 209 N94-29711 Posture control of goldfishes under microgravity p 209 N94-29712 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight Hemodynamic measurement during parabolic flight p 215 N94-29717 Motion sickness in parabolic flight: Possibility of electrogastrography as an objective index
[TELECOM-93-D-016] p 218 N94-30970 Elements for the recognition of three dimensional deformable shapes: Application to biomedical imagery [TELECOM-93-E-006] p 218 N94-30978 Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 MAGE RECONSTRUCTION Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 MAGING TECHNIQUES Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 Corriporter Assisted Medical Interventions: Application to Conformal Radiotherapy [RR-912-I] p 216 N94-30028	[NASA-CR-195260] p 224 N94-30188 LINGUISTICS An architecturally-based theory of human sentence comprehension [AD-A275380] p 220 N94-29313 LIQUID COOLING A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] p 226 N94-31302 LUMINOUS INTENSITY Strategies to sustain and enhance performance in streastul environments [AD-A275223] p 220 N94-29027 M MAN MACHINE SYSTEMS Stress and ergonomic design and evaluation of person-machine systems [AD-A275156] p 223 N94-29034 Aiding the operator in the manual control of a space	Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight [JTN-94-80588] p 215 N94-29709 Microgravity by parabolic flight with MU-300 aircraft p 224 N94-29710 Space movement of Trichinella spiralis under microgravity p 209 N94-29711 Posture control of goldfishes under microgravity p 209 N94-29712 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight p 215 N94-29717 Motion sickness in parabolic flight: Possibility of electrogastrography as an objective index
[TELECOM-93-D-016] p 218 N94-30970 Elements for the recognition of three dimensional deformable shapes: Application to biomedical imagery p 218 N94-30978 [TELECOM-93-E-006] p 218 N94-30978 Interactive reconstruction of anatomical structures with ree-form surfaces [TELECOM-93-E-002] p 219 N94-31195 Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 MAGE RECONSTRUCTION Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 MAGING TECHNIQUES Image technology and information analysis of bone charge with gravitational exposure p 212 N94-28851 Computer Assisted Medical Interventions: Application to Conformal Radiotherapy [RR-912-1] p 216 N94-30028 Conformal external radiotherapy of prostatic carcinoma:	[NASA-CR-195260] p 224 N94-30188 LINGUISTICS An architecturally-based theory of human sentence comprehension [AD-A275380] p 220 N94-29313 LIQUID COOLING A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] p 226 N94-31302 LUMINOUS INTENSITY Strategies to sustain and enhance performance in stressful environments [AD-A275223] p 220 N94-29027 M MAN MACHINE SYSTEMS Stress and ergonomic design and evaluation of person-machine systems [AD-A275156] p 223 N94-29034 Aiding the operator in the manual control of a space manipulator	Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight [JTN-94-80588] p 215 N94-29709 Microgravity by parabolic flight with MU-300 aircraft p 224 N94-29710 Space movement of Trichinella spiralis under microgravity p 209 N94-29711 Posture control of goldfishes under microgravity p 209 N94-29712 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 Hemodynamic measurement during parabolic flight p 215 N94-29717 Motion sickness in parabolic flight: Possibility of electrogastrography as an objective index p 215 N94-29718 Japanese Journal of Aerospace and Environmental
[TELECOM-93-D-016] p 218 N94-30970 Elements for the recognition of three dimensional deformable shapes: Application to biomedical imagery [TELECOM-93-E-006] p 218 N94-30978 Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 MAGE RECONSTRUCTION interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 MAGING TECHNIQUES Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 Computer Assisted Medical Interventions: Application to Conformal Radiotherapy [RR-912-I] p 216 N94-30028 Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results	[NASA-CR-195260] p 224 N94-30188 LINGUISTICS An architecturally-based theory of human sentence comprehension [AD-A275380] p 220 N94-29313 LIQUID COOLING A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] p 226 N94-31302 LUMINOUS INTENSITY Strategies to sustain and enhance performance in stressful environments [AD-A275223] p 220 N94-29027 M MAN MACHINE SYSTEMS Stress and ergonomic design and evaluation of person-machine systems [AD-A275156] p 223 N94-29034 Aiding the operator in the manual control of a space maniputator [PB94-125549] p 225 N94-30390	Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight [JTN-94-80588] p 215 N94-29709 Microgravity by parabolic flight with MU-300 aircraft p 224 N94-29710 Space movement of Trichinella spiralis under microgravity p 209 N94-29711 Posture control of goldfishes under microgravity p 209 N94-29712 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight p 215 N94-29716 Hemodynamic measurement during parabolic flight p 215 N94-29717 Motion sickness in parabolic flight: Possibility of electrogastrography as an objective index p 215 N94-29718 Japanese Journal of Aerospace and Environmental Medicine, vol. 30, no. 2
[TELECOM-93-D-016] p 218 N94-30970 Elements for the recognition of three dimensional deformable shapes: Application to biomedical imagery p 218 N94-30978 [TELECOM-93-E-006] p 218 N94-30978 Interactive reconstruction of anatomical structures with ree-form surfaces [TELECOM-93-E-002] p 219 N94-31195 Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 MAGE RECONSTRUCTION Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 MAGING TECHNIQUES Image technology and information analysis of bone charge with gravitational exposure p 212 N94-28851 Computer Assisted Medical Interventions: Application to Conformal Radiotherapy [RR-912-1] p 216 N94-30028 Conformal external radiotherapy of prostatic carcinoma:	[NASA-CR-195260] p 224 N94-30188 LINGUISTICS An architecturally-based theory of human sentence comprehension [AD-A275380] p 220 N94-29313 LIQUID COOLING A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] p 226 N94-31302 LUMINOUS INTENSITY Strategies to sustain and enhance performance in stressful environments [AD-A275223] p 220 N94-29027 M MAN MACHINE SYSTEMS Stress and ergonomic design and evaluation of person-machine systems [AD-A275156] p 223 N94-29034 Aiding the operator in the manual control of a space manipulator	Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight [JTN-94-80588] p 215 N94-29709 Microgravity by parabolic flight with MU-300 aircraft p 224 N94-29710 Space movement of Trichinella spiralis under microgravity p 209 N94-29711 Posture control of goldfishes under microgravity p 209 N94-29712 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight p 215 N94-29716 Hemodynamic measurement during parabolic flight p 215 N94-29717 Motion sickness in parabolic flight: Possibility of electrogastrography as an objective index p 215 N94-29718 Japanese Journal of Aerospace and Environmental Medicine, vol. 30, no. 2
[TELECOM-93-D-016] p 218 N94-30970 Elements for the recognition of three dimensional deformable shapes: Application to biomedical imagery [TELECOM-93-E-006] p 218 N94-30978 Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 MAGE RECONSTRUCTION Interactive reconstruction of anatomical structures with free-form surfaces [TELECOM-93-E-002] p 219 N94-31195 MAGING TECHNIQUES Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 Computer Assisted Medical Interventions: Application to Conformal Radiotherapy [RR-912-I] p 216 N94-30028 Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results	[NASA-CR-195260] p 224 N94-30188 LINGUISTICS An architecturally-based theory of human sentence comprehension [AD-A275380] p 220 N94-29313 LIQUID COOLING A review of microclimate cooling systems in the chemical, biological, radiological environment [AD-A276446] p 226 N94-31302 LUMINOUS INTENSITY Strategies to sustain and enhance performance in streasful environments [AD-A275223] p 220 N94-29027 M MAN MACHINE SYSTEMS Stress and ergonomic design and evaluation of person-machine systems [AD-A275156] p 223 N94-29034 Aiding the operator in the manual control of a space manipulator [PB94-125549] p 225 N94-30390 MANIFOLDS (MATHEMATICS)	Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight [JTN-94-80588] p 215 N94-29709 Microgravity by parabolic flight with MU-300 aircraft p 224 N94-29710 Space movement of Trichinella spiralis under microgravity p 209 N94-29711 Posture control of goldfishes under microgravity p 209 N94-29712 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715 Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 Hemodynamic measurement during parabolic flight p 215 N94-29717 Motion sickness in parabolic flight: Possibility of electrogastrography as an objective index p 215 N94-29718 Japanese Journal of Aerospace and Environmental Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-29883

Shortening velocity and calcium sensitivity of sing		PARABOLIC FLIGHT The MERSS 5th Symposium on Space Medicine:
fibers from hindlimb suspended muscle in rats	Effect of food intake on skin vasomotor responses to	Medical and Physiological Experiment Utilizing Parabolic
p 210 N94-2986 Microencapsulation of anti-tumor, antibiotic ar		Flight
thrombolytic drugs in microgravity p 217 N94-3045		[.ITN-94-80588] p 215 N94-29709
MICROINSTRUMENTATION	networks	Microgravity by parabolic flight with MU-300 aircraft
Microfabricated silicon biosensors for		p 224 N94-29710
microphysiometry p 210 N94-2978	3 NEUROLOGY	A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715
MICROMINIATURIZED ELECTRONIC DEVICES	Monitor for status epilepticus seizures	microgravity during parabolic flight p 220 N94-29715 PARAMECIA
Microfabricated silicon biosensors for microphysiometry p 210 N94-2978	2	Space movement of Trichinella spiralis under
microphysiometry p 210 N94-2978 MICROORGANISMS	NEURONS	microgravity p 209 N94-29711
Stable RNA sequences as a tool for DNA probes an	Synaptogenesis, selective stabilization, and free	PATTERN RECOGNITION
phylogenetic studies	association [AD-A275250] p 215 N94-29431	Elements for the recognition of three dimensional
[PB94-135423] p 208 N94-2915	Towards simplicity: Noise and cooperation in the perfect	deformable shapes: Application to biomedical imagery
Growth of hydrocarbon-rich microalga Botryococcu	integrator	[TELECOM-93-E-006] p 218 N94-30978
braunii in secondarily treated sewage and its consumptio	1 (AD A276256) n 222 N94-31291	PATTERN REGISTRATION Pre- and intra-radiotherapy multimodal image
of nitrate ion and phosphate ion p 209 N94-2951 Microfabricated silicon biosensors for	NIOVE VICION	registration: Principles and first experiments
microphysiometry p 210 N94-2978	An investigation of stereopsis with AN/AVS-6 night	p 217 N94-30030
MICROPARTICLES	vision goggles at varying levels of illuminance and	PERFORMANCE TESTS
Microencapsulation of anti-tumor, antibiotic an	contrast	Stress and ergonomic design and evaluation of
thrombolytic drugs in microgravity p 217 N94-3045	(AD-A275332) p 222 N94-28918	person-machine systems
MILITARY OPERATIONS	NITRATES	[AD-A275156] p 223 N94-29034
Clinical investigation program	Growth of hydrocarbon-rich microalga Botryococcus braumii in secondarily treated sewage and its consumption	Scanning and monitoring performance: Effects of the
[AD-A275025] p 214 N94-2911	of nitrate ion and phosphate ion p 209 N94-29519	reinforcement values of the events being monitored [DOT/FAA/AM-94/8] p 221 N94-29918
MILITARY TECHNOLOGY Assessed of the constant interfere for military robotic		PERSONNEL SELECTION
Aspects of the operator interface for military roboti applications in unstructured environments	Evaluation of monitoring audiometry in the United States	Scanning and monitoring performance: Effects of the
p 225 N94-3030		reinforcement values of the events being monitored
MIR SPACE STATION	[AD-A275309] p 215 N94-29211	[DOT/FAA/AM-94/8] p 221 N94-29918
Technical assessment of Mir-1 life support hardware for	NONINTRUSIVE MEASUREMENT	PHARMACOLOGY
the international space station	Non-intrusive gaze tracking using artificial neural	International Journal of Quantum Chemistry, Quantum
[NASA-TM-108441] p 226 N94-3138		Biology Symposium number 20. Proceedings of the
MONITORS	(AD-A275186) p 219 N94-28860	International Symposium on the Application of
Monitor for status epilepticus seizures p 218 N94-3046	NONLINEARITY	Fundamental Theory to Problems of Biology and Pharmacology
MONTE CARLO METHOD	Town and a state of the state o	[AD-A276294] p 212 N94-31294
Hydrogenated amorphous silicon (a-Si:H) based gamm	integrator	PHOSPHATES
camera: Monte Carlo simulations	(1012100)	Growth of hydrocarbon-rich microalga Botryococcus
[DE94-007042] p 219 N94-3132	NYSTAGMUS Disturbance of equilibrium on JAL flight crew	braunii in secondarily treated sewage and its consumption
MORALE	p 213 N94-28856	of nitrate ion and phosphate ion p 209 N94-29519
Stress and ergonomic design and evaluation of	p 210 112-2000	PHOTOELECTRIC EMISSION
person-machine systems		Characteristics of secondary electron emission from Csl
[AD-A275156] p 223 N94-2903	0	induced by x rays with energies up to 100 keV
MORPHOLOGY		[DE94-608422] p 217 N94-30185 PHOTOMETERS
Elements for the recognition of three dimensions deformable shapes: Application to biomedical imager		Hydrogenated amorphous silicon (a-Si:H) based gamma
[TELECOM-93-E-006] p 218 N94-3097	Miremization of Carpai turinei synorome	camera: Monte Carlo simulations
MOTION SICKNESS	(AD-A276409) p 219 N94-31363	[DE94-007042] p 219 N94-31323
Japanese Journal of Aerospace and Environmenta	OCULOMOTOR NERVES	PHOTOMULTIPLIER TUBES
Medicine, volume 30, no. 1	Japanese Journal of Aerospace and Environmental	Hydrogenated amorphous silicon (a-Si:H) based gamma
[JTN-94-80598] p 212 N94-2885	Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850	camera: Monte Carlo simulations
Disturbance of equilibrium on JAL flight crew		[DE94-007042] p 219 N94-31323
p 213 N94-2885		PHOTOSYNTHESIS
Space and vertigo: In relation to space motion sickness p 213 N94-2885		Estimation of the net production of moss community at Langhovde, East Antarctica p 207 N94-29081
The MERSS 5th Symposium on Space Medicine		PHYSICAL EXAMINATIONS
Medical and Physiological Experiment Utilizing Paraboli		Hydrogenated amorphous silicon (a-Si:H) based gamma
Flight	engineering approach to modifying an AWACS human	camera: Monte Carlo simulations
[JTN-94-80588] p 215 N94-2970	computer interface	[DE94-007042] p 219 N94-31323
Motion sickness in parabolic flight: Possibility of	[AD-A275187] p 222 N94-28861	PHYSICAL EXERCISE
electrogastrography as an objective index	Aiding the operator in the manual control of a space	Effects of endurance training on heat-exercise tolerance
p 215 N94-2971 MUSCLES	manipolato.	in men wearing NBC protective clothing
Leg muscle volume during 30-day 6-degree head-down		[AD-A275176] p 214 N94-29049
	[PB94-125549] p 225 N94-30390	
	Sampling behaviour in a four instrument monitoring task:	Leg muscle volume during 30-day 6-degree head-down
bed rest with isotonic and isokinetic exercise training	Sampling behaviour in a four instrument monitoring task: Effects of signal bandwidth and number of events per	Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training
	Sampling behaviour in a four instrument monitoring task: Effects of signal bandwidth and number of events per signal	Leg muscle volume during 30-day 6-degree head-down
bed rest with isotonic and isokinetic exercise training (NASA-TM-4580) p 208 N94-2940 Japanese Journal of Aerospace and Environmenta Medicine, vol. 30, no. 2	Sampling behaviour in a four instrument monitoring task: Effects of signal bandwidth and number of events per signal [AD-B179613] p 225 N94-30422	Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401
bed rest with isotonic and isokinetic exercise training (NASA-TM-4580) p 208 N94-2940 Japanese Journal of Aerospace and Environmente Medicine, vol. 30, no. 2 (JTN-94-80599) p 215 N94-29860	Sampling behaviour in a four instrument monitoring task: Effects of signal bandwidth and number of events per signal [AD-B179613] p 225 N94-30422 OVERPRESSURE	Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 PHYSIOLOGICAL ACCELERATION Portable Linear Sted (PLS) for biomedical research p 209 N94-29648
bed rest with isotonic and isokinetic exercise training (NSA-TM-4580) p 208 N94-2940 Japanese Journal of Aerospace and Environmenta Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-2986; Effect of water immersion on muscle sympathetic nerve	Sampling behaviour in a four instrument monitoring task: Effects of signal bandwidth and number of events per signal [AD-B179613] p 225 N94-30422 OVERPRESSURE Blast overpressure studies with animals and man	Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 PHYSIOLOGICAL ACCELERATION Portable Linear Sied (PLS) for biomedical research p 209 N94-29648 PHYSIOLOGICAL EFFECTS
bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-2940 Japanese Journal of Aerospace and Environmenta Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-2986: Effect of water immersion on muscle sympathetic nerw response during static muscle contraction	Sampling behaviour in a four instrument monitoring task: Effects of signal bandwidth and number of events per signal [AD-8179613] p 225 N94-30422 OVERPRESSURE Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150	Leg muscle volume during 30-day 6-degree head-down bed rest with isotoric and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 PHYSIOLOGICAL ACCELERATION Portable Linear Sied (PLS) for biomedical research p 209 N94-29648 PHYSIOLOGICAL EFFECTS Effects of pressure on membrane-associated receptors
bed rest with isotonic and isokinetic exercise training (NASA-TM-4580) p 208 N94-2940 Japanese Journal of Aerospace and Environmenta Medicine, vol. 30, no. 2 (JTN-94-80599) p 215 N94-2986: Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 216 N94-2986:	Sampling behaviour in a four instrument monitoring task: Effects of signal bandwidth and number of events per signal [AD-8179613] p 225 N94-30422 OVERPRESSURE Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150	Leg muscle volume during 30-day 6-degree head-down bed rest with isotoric and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 PHYSIOLOGICAL ACCELERATION Portable Linear Sted (PLS) for biomedical research p 209 N94-29648 PHYSIOLOGICAL EFFECTS Effects of pressure on membrane-associated receptors and effector elements
bed rest with isotonic and isokinetic exercise training (NASA-TM-4580) p 208 N94-2940 p 215 N94-2986: [JTN-94-80599] Effect of water immersion on muscle sympathetic nerver response during static muscle contraction p 216 N94-2986: Shortening velocity and calcium sensitivity of single	Sampling behaviour in a four instrument monitoring task: Effects of signal bandwidth and number of events per signal [AD-B179613] p 225 N94-30422 OVERPRESSURE Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 OXYGEN	Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 PHYSIOLOGICAL ACCELERATION Portable Linear Sied (PLS) for biomedical research p 209 N94-29648 PHYSIOLOGICAL EFFECTS Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829
bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-2940 Japanese Journal of Aerospace and Environments Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-2986: Effect of water immersion on muscle sympathetic nerver response during static muscle contraction p 216 N94-2986: Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats	Sampling behaviour in a four instrument monitoring task: Effects of signal bandwidth and number of events per signal [AD-8179613] p 225 N94-30422 OVERPRESSURE Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 OXYGEN Japanese Journal of Aerospace and Environmental Medicine, votume 30, no. 1	Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 PHYSIOLOGICAL ACCELERATION Portable Linear Sied (PLS) for biomedical research p 209 N94-29648 PHYSIOLOGICAL EFFECTS Effects of pressure on membrane-associated receptors and effector elements [AD-AZ75813] p 207 N94-28829 Japanese Journal of Aerospace and Environmental
bed rest with isotonic and isokinetic exercise training (NASA-TM-4580) p 208 N94-2940 p 215 N94-2986: [JTN-94-80599] Effect of water immersion on muscle sympathetic nerver response during static muscle contraction p 216 N94-2986: Shortening velocity and calcium sensitivity of single	Sampling behaviour in a four instrument monitoring task: Effects of signal bandwidth and number of events per signal [AD-B179613] p 225 N94-30422 OVERPRESSURE Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 OXYGEN Japanese Journal of Aerospace and Environmental Medicine, votume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Arterial oxygen saturation during + Gz acceleration by	Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 PHYSIOLOGICAL ACCELERATION Portable Linear Sied (PLS) for biomedical research p 209 N94-29648 PHYSIOLOGICAL EFFECTS Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829
bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-2940 Japanese Journal of Aerospace and Environmenta Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-2986; Effect of water immersion on muscle sympathetic nerver response during static muscle contraction p 216 N94-2986; Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-2986.	Sampling behaviour in a four instrument monitoring task: Effects of signal bandwidth and number of events per signal (AD-8179613) p 225 N94-30422 OVERPRESSURE Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 OXYGEN Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Arterial oxygen saturation during + Gz acceleration by short-radius centrifuge p 212 N94-28852	Leg muscle volume during 30-day 6-degree head-down bed rest with isotoric and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 PHYSIOLOGICAL ACCELERATION Portable Linear Sied (PLS) for biomedical research p 209 N34-29648 PHYSIOLOGICAL EFFECTS Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1
bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-2940 Japanese Journal of Aerospace and Environmenta Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-2986: Effect of water immersion on muscle sympathetic nerver response during static muscle contraction p 216 N94-2986: Shortening velocity and calcium sensitivity of singlifibers from hindlimb suspended muscle in rats p 210 N94-2986: MUSCULAR FUNCTION Japanese Journal of Aerospace and Environmenta Medicine, vol. 30, no. 2	Sampling behaviour in a four instrument monitoring task: Effects of signal bandwidth and number of events per signal [AD-B179613] p 225 N94-30422 OVERPRESSURE Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 OXYGEN Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Arterial oxygen saturation during + Gz acceleration by short-redius centrifuge p 212 N94-28852 OXYGEN BREATHING	Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 PHYSIOLOGICAL ACCELERATION Portable Linear Sied (PLS) for biomedical research p 209 N94-29648 PHYSIOLOGICAL EFFECTS Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851
bed rest with isotonic and isokinetic exercise training (NASA-TM-4580) p 208 N94-2940 Japanese Journal of Aerospace and Environmenta Medicine, vol. 30, no. 2 (JTN-94-80599) p 215 N94-2986: Effect of water immersion on muscle sympathetic nerviresponse during static muscle contraction p 216 N94-2986: Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-2986: MUSCULAR FUNCTION Japanese Journal of Aerospace and Environmenta Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-2986:	Sampling behaviour in a four instrument monitoring task: Effects of signal bandwidth and number of events per signal [AD-B179613] p 225 N94-30422 OVERPRESSURE Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 OXYGEN Japanese Journal of Aerospace and Environmental Medicine, votume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Arterial oxygen saturation during + Gz acceleration by short-radius centrituge p 212 N94-28852 OXYGEN BREATHING Decompression sickness risk versus time and altitude	Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 PHYSIOLOGICAL ACCELERATION Portable Linear Sied (PLS) for biomedical research p 209 N94-29648 PHYSIOLOGICAL EFFECTS Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 Arterial oxygen saturation during + Gz acceleration by
bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-2940. Japanese Journal of Aerospace and Environments Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-2986: Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 216 N94-2986: Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-2986: MUSCULAR FUNCTION Japanese Journal of Aerospace and Environmenta Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-2986: Shortening velocity and calcium sensitivity of single	Sampling behaviour in a four instrument monitoring task: Effects of signal bandwidth and number of events per signal [AD-B179613] p 225 N94-30422 OVERPRESSURE Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 OXYGEN Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Arterial oxygen saturation during + Gz acceleration by short-radius centrifuge p 212 N94-28852 OXYGEN BREATHING Decompression sickness risk versus time and altitude [AD-A275261] p 214 N94-29071	Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 PHYSIOLOGICAL ACCELERATION Portable Linear Sied (PLS) for biomedical research p 209 N94-29648 PHYSIOLOGICAL EFFECTS Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 Arterial oxygen saturation during + Gz acceleration by short-redisis centrifuge p 212 N94-28852
bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-2940 Japanese Journal of Aerospace and Environmenta Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-2986: Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 216 N94-2986: Shortening velocity and calcium sensitivity of single fibers from hindimb suspended muscle in rats p 210 N94-2986: MUSCULAR FUNCTION Japanese Journal of Aerospace and Environmenta Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-2986: Shortening velocity and calcium sensitivity of single fibers from hindimb suspended muscle in rats	Sampling behaviour in a four instrument monitoring task: Effects of signal bandwidth and number of events per signal (AD-8179613) p 225 N94-30422 OVERPRESSURE Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 OXYGEN Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Arterial oxygen saturation during + Gz acceleration by short-radius centrifuge p 212 N94-28852 OXYGEN BREATMING Decompression sickness risk versus time and attitude (AD-A275261) p 214 N94-29071 OXYGEN MASKS	Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 PHYSIOLOGICAL ACCELERATION Portable Linear Sled (PLS) for biomedical research p 209 N94-29648 PHYSIOLOGICAL EFFECTS Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 Arterial oxygen saturation during + Gz acceleration by sont-redius centrifuge p 212 N94-28852 Effect of chronic centrifugation on in vitro fertilization
bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-2940 Japanese Journal of Aerospace and Environmenta Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-2986: Effect of water immersion on muscle sympathetic nerver response during static muscle contraction p 216 N94-2986: Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-2986: MUSCULAR FUNCTION Japanese Journal of Aerospace and Environmenta Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-2986: Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-2986:	Sampling behaviour in a four instrument monitoring task: Effects of signal bandwidth and number of events per signal [AD-B179613] p 225 N94-30422 OVERPRESSURE Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 OXYGEN Japanese Journal of Aerospace and Environmental Medicine, votume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Arterial paygen saturation during + Gz acceleration by short-radius centrifuge p 212 N94-28852 OXYGEN BREATMING Decompression sickness risk versus time and altitude [AD-A275261] p 214 N94-29071 OXYGEN MASKS	Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 PHYSIOLOGICAL ACCELERATION Portable Linear Sied (PLS) for biomedical research p 209 N94-29648 PHYSIOLOGICAL EFFECTS Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 Arterial oxygen saturation during +Gz acceleration by short-radius centrifuge Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853
bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-2940. Japanese Journal of Aerospace and Environments Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-2986: Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 216 N94-2986: Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-2986: MUSCULAR FUNCTION Japanese Journal of Aerospace and Environmenta Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-2986: Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-2986: MUSCULAR FUNCTION Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-2986: MUSCULOSKELETAL SYSTEM	Sampling behaviour in a four instrument monitoring task: Effects of signal bandwidth and number of events per signal (AD-8179613) p 225 N94-30422 OVERPRESSURE Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 OXYGEN Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Arterial oxygen saturation during + Gz acceleration by short-radius centrifuge p 212 N94-28852 OXYGEN BREATMING Decompression sickness risk versus time and attitude (AD-A275261) p 214 N94-29071 OXYGEN MASKS	Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 PHYSIOLOGICAL ACCELERATION Portable Linear Sied (PLS) for biomedical research p 209 N94-29648 PHYSIOLOGICAL EFFECTS Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 Arterial oxygen saturation during + Gz acceleration by short-radius centrifuge p 212 N94-28852 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 Disturbance of equilibrium on JAL flight crew
bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-2940. Japanese Journal of Aerospace and Environmenta Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-2986: Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 216 N94-2986: Shortening velocity and calcium sensitivity of single fibers from hindiamb suspended muscle in rats p 210 N94-2986: MUSCULAR FUNCTION Japanese Journal of Aerospace and Environmenta Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-2986: Shortening velocity and calcium sensitivity of single fibers from hindiamb suspended muscle in rats p 210 N94-29866: MUSCULOSKELETAL SYSTEM Shortening velocity and calcium sensitivity of single	Sampling behaviour in a four instrument monitoring task: Effects of signal bandwidth and number of events per signal (AD-B179613) p 225 N94-30422 OVERPRESSURE Blast overpressure studies with animals and man (AD-A275038) p 214 N94-29150 OXYGEN Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Arterial oxygen saturation during + Gz acceleration by short-radius centrifuge p 212 N94-28852 OXYGEN BREATHING Decompression sickness risk versus time and altitude (AD-A275261) p 214 N94-29071 OXYGEN MASKS Portable ventilatory resuscitation systems (AD-A274984) p 223 N94-29093	Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 PHYSIOLOGICAL ACCELERATION Portable Linear Sied (PLS) for biomedical research p 209 N94-29648 PHYSIOLOGICAL EFFECTS Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80588] p 212 N94-28850 Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 Arterial oxygen saturation during + Gz acceleration by short-radius centrifuge p 212 N94-28852 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 Disturbance of equilibrium on JAL flight crew p 213 N94-28856
bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-2940. Japanese Journal of Aerospace and Environments Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-2986: Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 216 N94-2986: Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-2986: MUSCULAR FUNCTION Japanese Journal of Aerospace and Environmenta Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-2986: Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-2986: MUSCULAR FUNCTION Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-2986: MUSCULOSKELETAL SYSTEM	Sampling behaviour in a four instrument monitoring task: Effects of signal bandwidth and number of events per signal [AD-B179613] p 225 N94-30422 OVERPRESSURE Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 OXYGEN Japanese Journal of Aerospace and Environmental Medicine, votume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Arterial paygen saturation during + Gz acceleration by short-radius centrifuge p 212 N94-28852 OXYGEN BREATMING Decompression sickness risk versus time and altitude [AD-A275261] p 214 N94-29071 OXYGEN MASKS	Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 PHYSIOLOGICAL ACCELERATION Portable Linear Sied (PLS) for biomedical research p 209 N94-29648 PHYSIOLOGICAL EFFECTS Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28829 Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 Arterial oxygen saturation during + Gz acceleration by short-radius centrifuge p 212 N94-28852 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 Disturbance of equilibrium on JAL flight crew
bed rest with isotonic and isokinetic exercise training (NASA-TM-4580) p 208 N94-2940 Japanese Journal of Aerospace and Environmenta Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-2986: Effect of water immersion on muscle sympathetic nerver response during static muscle contraction p 216 N94-2986: Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-2986: MUSCULAR FUNCTION Japanese Journal of Aerospace and Environmenta Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-2986: Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-2986: MUSCULOSKELETAL SYSTEM Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats	Sampling behaviour in a four instrument monitoring task: Effects of signal bandwidth and number of events per signal (AD-B179613) p 225 N94-30422 OVERPRESSURE Blast overpressure studies with animals and man (AD-A275038) p 214 N94-29150 OXYGEN Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Arterial oxygen saturation during + Gz acceleration by short-radius centrifuge p 212 N94-28852 OXYGEN BREATHING Decompression sickness risk versus time and altitude (AD-A275261) p 214 N94-29071 OXYGEN MASKS Portable ventilatory resuscitation systems (AD-A274984) p 223 N94-29093	Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 PHYSIOLOGICAL ACCELERATION Portable Linear Sied (PLS) for biomedical research p 209 N94-29648 PHYSIOLOGICAL EFFECTS Effects of pressure on membrane-associated receptors and effector elements [AD-A275813] p 207 N94-28629 Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 Arterial oxygen saturation during + Gz acceleration by short-radius centrifuge Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 Disturbance of equilibrium on JAL flight crew p 213 N94-28856 Equilibrium dystunction in the clinical field

NATURAL LANGUAGE PROCESSING An architecturally-based theory of human sentence comprehension [AD-A275380] p 220 N94-29313

Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Certo simulations
[DE94-007042] p 219 N94-31323
PAINTS

Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864

Flight [JTN-94-80588]

p 215 N94-29709 Space movement of Trichinetta spiratis under microgravity p 209 N94-29711

Posture control of goldfishes under microgravity p 209 N94-29712

Behavior and visual control of cyprinodonts under	PREGNANCY	Conformal external radiotherapy of prostatic carcinoma:
microgravity p 210 N94-29713	Physiological Anatomical Rodent Experiment (PARE) .04	Requirements and preliminary results p 217 N94-30029
A discussion of eye-head coordinative movement under microgravity during parabolic flight p 220 N94-29715	feasibility test 2 [NASA-CR-195210] p 210 N94-29968	Pre- and intra-radiotherapy multimodal image
Analysis of various biological activity parameters during	PRESSURE BREATHING	registration: Principles and first experiments
parabolic flight p 221 N94-29716	Comparative centrifuge evaluation of the Air Force Advanced Technology Anti-G Suit (ATAGS) and the Navy	p 217 N94-30030
Hemodynamic measurement during parabolic flight	Enhanced Anti-G Lower Ensemble (EAGLE)	RADIATION TOLERANCE Studies on bacterial spore ultraviolet light resistance and
p 215 N94-29717 Motion sickness in parabolic flight: Possibility of	[AD-A275348] p 222 N94-28996	regulation of the activity of a spore protease
electrogastrography as an objective index	PRESSURE EFFECTS Effects of pressure on membrane-associated receptors	(AD-A275448) p 207 N94-28884
p 215 N94-29718	and effector elements	RADIOGRAPHY
Japanese Journal of Aerospace and Environmental Medicine, vol. 30, no. 2	[AD-A275813] p 207 N94-28829	Characteristics of secondary electron emission from Csl induced by x rays with energies up to 100 keV
[JTN-94-80599] p 215 N94-29863	PRESSURE SUITS Comparative centrifuge evaluation of the Air Force	[DE94-608422] p 217 N94-30185
Effect of water immersion on muscle sympathetic nerve	Advanced Technology Anti-G Suit (ATAGS) and the Navy	Seed viability detection using computerized false-color
response during static muscle contraction p 216 N94-29865	Enhanced Anti-G Lower Ensemble (EAGLE)	radiographic image enhancement p 211 N94-30461
Shortening velocity and calcium sensitivity of single	[AD-A275348] p 222 N94-28996 Procedures and metrics for anti-G suit evaluations	RATS
fibers from hindlimb suspended muscle in rats	[AD-A275349] p 223 N94-28997	Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats
p 210 N94-29866	Decompression sickness risk versus time and attitude [AD-A275261] p 214 N94-29071	p 210 N94-29866
Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation,	EVA glove evaluation methodology and test protocol	REACTION KINETICS
carboxyhemoglobin, and blood cyanide parameters	p 224 N94-29729	Role of x ray-induced transcripts in adaptive responses following x rays
[DOT/FAA/AM-94/7] p 216 N94-29919	PRODUCT DEVELOPMENT	[DE94-005412] p 211 N94-30895
Physiological Anatomical Rodent Experiment (PARE) .04 feasibility test 2	Comparative centrifuge evaluation of the Air Force Advanced Technology Anti-G Suit (ATAGS) and the Navy	REACTION TIME
[NASA-CR-195210] p 210 N94-29968	Enhanced Anti-G Lower Ensemble (EAGLE)	Strategies to sustain and enhance performance in
PHYSIOLOGICAL FACTORS	[AD-A275348] p 222 N94-28996 PROSTATE GLAND	stressful environments [AD-A275223] p 220 N94-29027
Psychophysiological study on the effects of co-existence of lines for detecting dot target p 221 N94-29867	Conformal external radiotherapy of prostatic carcinoma:	RECEPTORS (PHYSIOLOGY)
PHYSIOLOGICAL RESPONSES	Requirements and preliminary results	Effects of pressure on membrane-associated receptors
Relaxed tolerance following HSG, high sustained +Gz	p 217 N94-30029 PROTEASE	and effector elements
[AD-A275204] p 213 N94-28892 Physiological responses during shipboard firefighting	Studies on bacterial spore ultraviolet light resistance and	[AD-A275813] p 207 N94-28829
[AD-A275104] p 214 N94-28912	regulation of the activity of a spore protease	REGRESSION COEFFICIENTS Estimation of the net production of moss community
Effect of water immersion on muscle sympathetic nerve	[AD-A275448] p 207 N94-28884	at Langhovde, East Antarctica p 207 N94-29081
response during static muscle contraction p 216 N94-29865	PROTECTIVE CLOTHING Comparison of two cool vests on heat-strain reduction	REGULATIONS
PHYSIOLOGY	while wearing a firefighting ensemble in a hot/humid	Evaluation of monitoring audiometry in the United States
Physiological Anatomical Rodent Experiment (PARE) .04	environment [AD-A275103] p 222 N94-28902	Air Force Hearing Conservation Program [AD-A275309] p 215 N94-29211
feasibility test 2 [NASA-CR-195210] p 210 N94-29968	Physiological responses during shipboard firefighting	REGULATORY MECHANISMS (BIOLOGY)
A fuzzy logic controller for hormone administration using	[AD-A275104] p 214 N94-28912	Japanese Journal of Aerospace and Environmental
an implantable pump p 218 N94-30459	Comparative centrifuge evaluation of the Air Force	Medicine, vol. 30, no. 2
PHYTOTRONS Seed viability detection using computerized false-color	Advanced Technology Anti-G Suit (ATAGS) and the Navy Enhanced Anti-G Lower Ensemble (EAGLE)	[JTN-94-80599] p 215 N94-29863 Effects of make-up on the heat transfer from the head
radiographic image enhancement p 211 N94-30461	[AD-A275348] p 222 N94-28996	in hyperthermic conditions p 216 N94-29864
PILOT PERFORMANCE	Procedures and metrics for anti-G suit evaluations [AD-A275349] p 223 N94-28997	REMOTE CONTROL
Disturbance of equilibrium on JAL flight crew p 213 N94-28856	Effects of endurance training on heat-exercise tolerance	Remote control of transcranial Doppler (TCD) probe
Human pilot response during single- and multi-axis	in men wearing NBC protective clothing	during centrifuge exposures up to 9 + Gz [AD-A275253] p 223 N94-29029
tracking tasks	[AD-A275176] p 214 N94-29049	Aspects of the operator interface for military robotic
[AD-A275080] p 220 N94-28887 Japanese Journal of Aerospace and Environmental	Insulative properties of two thermo-metal neoprenes [AD-A275209] p 223 N94-29302	applications in unstructured environments
Medicine, vol. 30, no. 2	A review of microclimate cooling systems in the	p 225 N94-30304
[JTN-94-80599] p 215 N94-29863	chemical, biological, radiological environment	REMOTE HANDLING Aiding the operator in the manual control of a space
Psychophysiological study on the effects of co-existence of lines for detecting dot target p 221 N94-29867	[AD-A276446] p 226 N94-31302 PROTECTIVE COATINGS	manipulator
Situational awareness: A feasibility investigation of	Insulative properties of two thermo-metal neoprenes	[PB94-125549] p 225 N94-30390
near-threshold skills development	[AD-A275209] p 223 N94-29302	REPRODUCTION (BIOLOGY) Reproduction in the Japanese anchovy (Engraulis
[AD-A276467] p 221 N94-31243	PSYCHOPHYSIOLOGY	japonica) as related to population fluctuation
Situational awareness: A feasibility investigation of	Psychophysiological study on the effects of co-existence of tines for detecting dot target p 221 N94-29867	p 209 N94-29708
near-threshold skills development	PUPILS	RESEARCH FACILITIES Portable Linear Sled (PLS) for biomedical research
[AD-A276467] p 221 N94-31243 PLOTS (PERSONNEL)	Analysis of various biological activity parameters during	p 209 N94-29648
Human pilot response during single- and multi-axis	parabolic flight p 221 N94-29716	RESEARCH PROJECTS
tracking tasks	^	Annual report and summaries of FY 1993 activities:
[AD-A275080] p 220 N94-28887 OPULATIONS	Q	Division of Energy Biosciences [DE94-001723] p 211 N94-30607
Reproduction in the Japanese anchovy (Engraulis	QUANTUM CHEMISTRY	RESPIRATORS
japonica) as related to population fluctuation	International Journal of Quantum Chemistry. Quantum	Portable ventilatory resuscitation systems
p 209 N94-29708 ORTABLE EQUIPMENT	Biology Symposium number 20. Proceedings of the	[AD-A274984] p 223 N94-29093 RESPIRATORY RATE
Portable Linear Sted (PLS) for biomedical research	International Symposium on the Application of Fundamental Theory to Problems of Biology and	Estimation of the net production of moss community
p 209 N94-29648 ORTABLE LIFE SUPPORT SYSTEMS		
Portable ventilatory resuscitation systems	Pharmacology	at Langhovde, East Antarctics p 207 N94-29081
		RESPIRATORY SYSTEM
[AD-A274984] p 223 N94-29093	Pharmacology [AD-A276294] p 212 N94-31294	RESPIRATORY SYSTEM Blast overpressure studies with animals and man
[AD-A274984] p 223 N94-29093 OSITION SENSING	Pharmacology	RESPIRATORY SYSTEM
[AD-A274984] p 223 N94-29093 OSITION SENSING Computer Assisted Medical Interventions: Application to	Pharmacology [AD-A276294] p 212 N94-31294	RESPIRATORY SYSTEM Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 RESUSCITATION Portable ventilatory resuscitation systems
[AD-A274984] p 223 N94-29093 OSITION SENSING Computer Assisted Medical Interventions: Application to Conformal Radiotherapy [RR-912-I] p 216 N94-30028	Pharmacology [AD-A276294] p 212 N94-31294 RADARSCOPES	RESPIRATORY SYSTEM Blast overpressure studies with animals and man {AD-A275038} p 214 N94-29150 RESUSCITATION Portable ventilatory resuscitation systems [AD-A274984] p 223 N94-29093
[AD-A274984] p 223 N94-29093 OSITION SENSING Computer Assisted Medical Interventions: Application to Conformal Radiotherapy [RR-912-I] p 216 N94-30028 Conformal external radiotherapy of prostatic carcinoma:	Pharmacology [AD-A276294] p 212 N94-31294 RADARSCOPES Designing for performance: A cognitive systems	RESPIRATORY SYSTEM Blast overpressure studies with animals and man {AD-A275038} p 214 N94-29150 RESUSCITATION Portable ventilatory resuscitation systems [AD-A274984] p 223 N94-29093 RIBONUCLEIC ACIDS
[AD-A274984] p 223 N94-29093 OSITION SENSING Computer Assisted Medical Interventions: Application to Conformal Radiotherapy [RR-912-I] p 216 N94-30028 Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results	Pharmacology [AD-A276294] p 212 N94-31294 RADARSCOPES	RESPIRATORY SYSTEM Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 RESUSCITATION Portable ventilatory resuscitation systems [AD-A274984] p 223 N94-29093
[AD-A274984] p 223 N94-29093 OSITION SENSING Computer Assisted Medical Interventions: Application to Conformal Radiotherapy [RR-912-I] p 216 N94-30028 Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30028 Pre- and intra-radiotherapy multimodal image	Pharmacology [AD-A276294] P 212 N94-31294 RADARSCOPES Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861	RESPIRATORY SYSTEM Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 RESUSCITATION Portable ventilatory resuscitation systems [AD-A274984] p 223 N94-29093 RIBONUCLEIC ACIDS Stable RNA sequences as a tool for DNA probes and phylogenetic studies [P894-135423] p 208 N94-29156
[AD-A274984] p 223 N94-29093 OSITION SENSING Computer Assisted Medical Interventions: Application to Conformal Radiotherapy [RR-912-I] p 216 N94-30028 Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029 Pre- and intra-radiotherapy multimodal image registration: Principles and first experiments	Pharmacology [AD-A276294] R RADARSCOPES Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] RADIATION EFFECTS	RESPIRATORY SYSTEM Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 RESUSCITATION Portable ventilatory resuscitation systems [AD-A274984] p 223 N94-29093 RIBONUCLEIC ACIDS Stable RNA sequences as a tool for DNA probes and phylogenetic studies [P894-135423] p 208 N94-29156 ROBOT ARMS
[AD-A274984] p 223 N94-29093 OSITION SENSING Computer Assisted Medical Interventions: Application to Conformal Radiotherapy [RR-912-I] p 216 N94-30028 Conformal external radiotherapy of prostatic carcinoma: Requirements and pretiminary results p 217 N94-30029 Pre- and intra-radiotherapy multimodal image registration: Principles and first experiments p 217 N94-30030	Pharmacology [AD-A276294] P 212 N94-31294 RADARSCOPES Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861	RESPIRATORY SYSTEM Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 RESUSCITATION Portable ventilatory resuscitation systems [AD-A274984] p 223 N94-29093 RIBONUCLEIC ACIDS Stable RNA sequences as a tool for DNA probes and phylogenetic studies [P894-135423] p 208 N94-29156
[AD-A274984] p 223 N94-29093 OSITION SENSING Computer Assisted Medical Interventions: Application to Conformal Radiotherapy [RR-912-1] p 216 N94-30028 Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results Pre- and intra-radiotherapy multimodal image registration: Principles and first experiments p 217 N94-30030 Hydrogenated amorphous silicon (a-Si-H) based gamma camera: Monte Carlo simulations	Pharmacology [AD-A276294] R RADARSCOPES Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] RADIATION EFFECTS Role of x ray-induced transcripts in adaptive responses following x rays [DE94-005412] p 211 N94-30895	RESPIRATORY SYSTEM Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 RESUSCITATION Portable ventilatory resuscitation systems [AD-A274984] p 223 N94-29093 RIBONUCLEIC ACIDS Stable RNA sequences as a tool for DNA probes and phylogenetic studies [P894-135423] p 208 N94-29156 ROBOT ARMS Aiding the operator in the manual control of a space manipulator [P894-125549] p 225 N94-30390
[AD-A274984] p 223 N94-29093 OSTITION SENSING Computer Assisted Medical Interventions: Application to Conformal Radiotherapy [RR-912-I] p 216 N94-30028 Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results Pre- and intra-radiotherapy multimodal image registration: Principles and first experiments p 217 N94-30029 Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323	Pharmacology [AD-A276294] R RADARSCOPES Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] RADIATION EFFECTS Role of x ray-induced transcripts in adaptive responses tollowing x rays [DE94-005412] RADIATION THERAPY	RESPIRATORY SYSTEM Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 RESUSCITATION Portable ventilatory resuscitation systems [AD-A274984] p 223 N94-29093 RIBONUCLEIC ACIDS Stable RNA sequences as a tool for DNA probes and phylogenetic studies [P894-135423] p 208 N94-29156 ROBOT ARMS Aiding the operator in the manual control of a space manipulator [P884-125549] p 225 N94-30390 ROBOTS
[AD-A274984] p 223 N94-29093 OSITION SENSING Computer Assisted Medical Interventions: Application to Conformal Radiotherapy [RR-912-1] p 216 N94-30028 Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results Pre- and intra-radiotherapy multimodal image registration: Principles and first experiments p 217 N94-30030 Hydrogenated amorphous silicon (a-Si-H) based gamma camera: Monte Carlo simulations	Pharmacology [AD-A276294] R RADARSCOPES Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] RADIATION EFFECTS Role of x ray-induced transcripts in adaptive responses following x rays [DE94-005412] p 211 N94-30895	Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 RESUSCITATION Portable ventilatory resuscitation systems [AD-A274984] p 223 N94-29093 RIBONUCLEIC ACIDS Stable RNA sequences as a tool for DNA probes and phylogenetic studies [P894-135423] p 208 N94-29156 ROBOT ARMS Aiding the operator in the manual control of a space manipulator [P894-125549] p 225 N94-30390
[AD-A274984] p 223 N94-29093 OSITION SENSING Computer Assisted Medical Interventions: Application to Conformal Radiotherapy [RR-912-I] p 216 N94-30028 Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results	Pharmacology [AD-A276294] P 212 N94-31294 RADARSCOPES Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] RADIATION EFFECTS Role of x ray-induced transcripts in adaptive responses following x rays [DE94-005412] P 211 N94-30895 RADIATION THERAPY Computer Assisted Medical Interventions: Application to	RESPIRATORY SYSTEM Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 RESUSCITATION Portable ventilatory resuscitation systems [AD-A274884] p 223 N94-29093 RIBONUCLEIC ACIDS Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156 ROBOT ARMS Aiding the operator in the manual control of a space manipulator [PB94-125549] p 225 N94-30390 ROBOTS Aspects of the operator interface for military robotic

S

SAFETY DEVICES	p 209 N94-29648	stressful environme
Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid	SOFTWARE ENGINEERING The ergonomics of computer interfaces: Designing a	(AD-A275223) Stress and en
environment	system for human use	person-machine sy
[AD-A275103] p 222 N94-28902	[CWI-CS-R9258] p 225 N94-30320	(AD-A275156)
SAFETY MANAGEMENT Evaluation of monitoring audiometry in the United States	SPACE ADAPTATION SYNDROME	Spectral analysis A review of its valid
Air Force Hearing Conservation Program	Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1	[AD-B179387]
[AD-A275309] p 215 N94-29211	[JTN-94-80598] p 212 N94-28850	STRUCTURAL VIBR
SAMPLING	Space and vertigo: In relation to space motion	Analysis and des
Sampling behaviour in a four instrument monitoring task: Effects of signal bandwidth and number of events per	sickness p 213 N94-28857	SUITS
signal	The MERSS 5th Symposium on Space Medicine:	Insulative proper
[AD-B179613] p 225 N94-30422	Medical and Physiological Experiment Utilizing Parabolic Flight	[AD-A275209]
SATURATION (CHEMISTRY) Arterial oxygen saturation during +Gz acceleration by	[JTN-94-80588] p 215 N94-29709	SURGERY Dual use of image
short-radius centrifuge p 212 N94-28852	SPACE COMMERCIALIZATION	surgery and low vis
SCHEDULES	The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic	SYMPATHETIC NER
Circadian countermeasures for shiftworkers during USMP-2: A report to mission management	Flight	Japanese Journa Medicine, vol. 30, r
[NASA-CR-195260] p 224 N94-30188	[JŤN-94-80588] p 215 N94-29709	[JTN-94-80599]
SECONDARY EMISSION	SPACE HEATING (BUILDINGS)	Effect of water in
Characteristics of secondary electron emission from Csl	Maintaining acceptable thermal comfort with a low air temperature by means of local heating	response during sta
induced by x rays with energies up to 100 keV [DE94-608422] p 217 N94-30185	[PB94-138526] p 224 N94-29950	SYNAPSES
SEEDS	Control of heating, ventilation and air conditioning	Synaptogenesis,
Seed viability detection using computerized false-color	(HVAC) systems	association
radiographic image enhancement p 211 N94-30461 SEIZURES	[PB94-138807] p 224 N94-30000 SPACE PERCEPTION	[AD-A275250] SYNTHETIC APERTU
Monitor for status epilepticus seizures	Disturbance of equilibrium on JAL flight crew	Analysis and an i
p 218 N94-30460	p 213 N94-28856	tomography system
SEMICIRCULAR CANALS Basic understanding of vertigo p 213 N94-28855	An investigation of stereopsis with AN/AVS-6 night	SYSTEMS ENGINEED Designing for p
SENSORIMOTOR PERFORMANCE	vision goggles at varying levels of illuminance and contrast	engineering approx
Human pilot response during single- and multi-axis	[AD-A275332] p 222 N94-28918	computer interface
tracking tasks	SPACE TRANSPORTATION SYSTEM FLIGHTS	[AD-A275187]
[AD-A275080] p 220 N94-28887 Situational awareness: A feasibility investigation of	Physiological Anatomical Rodent Experiment (PARE) .04 feasibility test 2	SYSTEMS MANAGER Publications of the
near-threshold skills development	[NASA-CR-195210] p 210 N94-29968	Support System (CE
[AD-A276467] p 221 N94-31243	SPACEBORNE EXPERIMENTS	[NASA-CR-4603]
SENSORY PERCEPTION Basic understanding of vertigo p 213 N94-28855	Microencapsulation of anti-turnor, antibiotic and thrombolytic drugs in microgravity p 217 N94-30453	SYSTEMS SIMULATI
Disturbance of equilibrium on JAL flight crew	SPACECRAFT CABIN ATMOSPHERES	The use of tas prediction
p 213 N94-28856	Atmosphere quality standards in manned space .	[DCIEM-92-32]
Space and vertigo: In relation to space motion	vehicles [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224	
sickness p 213 N94-28857 SENTENCES	[ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 Technical assessment of Mir-1 life support hardware for	
An architecturally-based theory of human sentence	the international space station	
comprehension	[NASA-TM-108441] p 226 N94-31380	TACTILE DISCRIMIN
[AD-A275380] p 220 N94-29313	SPACECRAFT ENVIRONMENTS Atmosphere quality standards in manned space	Tactility as a func
SEQUENCING Stable RNA sequences as a tool for DNA probes and	vehicles	orientation, pressure [NASA-TP-3474]
phylogenetic studies	[ESA-PSS-03-401-ISSUE-1] p 226 N94-31224	TARGET RECOGNITI
[PB94-135423] p 208 N94-29156	Technical assessment of Mir-1 life support hardware for the international space station	Psychophysiologic
SERUMS	[NASA-TM-108441] p 226 N94-31380	of lines for detecting
Strategies to sustain and enhance performance in stressful environments	SPECTRUM ANALYSIS	TARGETS Psychophysiologic
[AD-A275223] p 220 N94-29027	Spectral analysis of heart rate and psychological state: A review of its validity as a workload index	of lines for detecting
SEWAGE TREATMENT	[AD-B179387] p 221 N94-30969	TASKS
Growth of hydrocarbon-rich microalga Botryococcus	SPINE	The use of tas
braunii in secondarily treated sewage and its consumption of nitrate ion and phosphate ion p 209 N94-29519	Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851	prediction [DCIEM-92-32]
SHAKING	SPORES	TECHNOLOGY ASSE
Monitor for status epilepticus seizures	Studies on bacterial spore ultraviolet light resistance and	Technical assessr
p 218 N94-30460 SHAPES	regulation of the activity of a spore protease	the international spa [NASA-TM-108441]
Interactive reconstruction of anatomical structures with	[AD-A275448] p 207 N94-28884 STAINLESS STEELS	TECHNOLOGY UTILE
tree-form surfaces	Insulative properties of two thermo-metal neoprenes	Dual use of image
[TELECOM-93-E-002] p 219 N94-31195	[AD-A275209] p 223 N94-29302	surgery and low vision
SHEEP Blast overpressure studies with animals and man	STATIC PRESSURE Blast overpressure studies with animals and man	Composite redesiç
[AD-A275038] p 214 N94-29150	[AD-A275038] p 214 N94-29150	TELEROBOTICS
SHIPS	STATIC TESTS	Aspects of the o
Physiological responses during shipboard firefighting	Analysis and design of inflatable aerospace structures p 226 N94-30799	applications in unstr
[AD-A275104] p 214 N94-28912	STEREOSCOPIC VISION	******
Signal Detection Sampling behaviour in a four instrument monitoring task:	An investigation of stereopsis with AN/AVS-6 night	TEMPERATURE Estimation of the
Effects of signal bandwidth and number of events per	vision goggles at varying levels of illuminance and	at Langhovde, East
signal	contrast [AD-A275332] p 222 N94-28918	TEMPERATURE CON
[AD-B179613] p 225 N94-30422 SIMULATED ANNEALING	STOCHASTIC PROCESSES	Maintaining accep
Use of snakes to link edge points to create left ventricular	Towards simplicity: Noise and cooperation in the perfect	temperature by mea: [PB94-138526]
boundaries in echocardiographic images	integrator [AD-A276256] p 222 N94-31291	TENDONS
[TELECOM-93-D-016] p 218 N94-30970	STRESS (PHYSIOLOGY)	Minimization of ca
SKIN (ANATOMY)	Physiological responses during shipboard firefighting	[AD-A276409]
Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864	[AD-A275104] p 214 N94-28912	THERMAL COMFORT Maintaining accep
SKIN TEMPERATURE (BIOLOGY)	Stress and ergonomic design and evaluation of person-machine systems	temperature by mean
Physiological responses during shipboard firefighting	[AD-A275156] p 223 N94-29034	[PB94-138526]
[AD-A275104] p 214 N94-28912	Effects of endurance training on heat-exercise tolerance	THERMAL CONDUCT
Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864	in men wearing NBC protective clothing [AD-A275176] p 214 N94-29049	Insulative properti [AD-A275209]
>p=10 110-2000-	*	· - · - · - · - · - · - · · · · · · · ·

SLEDS

Portable Linear Sled (PLS) for biomedical research

```
STRESS (PSYCHOLOGY)
    Strategies to sustain and enhance performance in
  stressful environments
                                        p 220 N94-29027
                     gonomic design and evaluation of
                     /stems
                                        p 223 N94-29034
                      of heart rate and psychological state:
                     dity as a workload index
                                        p 221 N94-30969
                     HOITAS
                     sign of inflatable aerospace structures
                                        p 226 N94-30799
                     rties of two thermo-metal neoprenes
                                        p 223 N94-29302
                     e based tracking techniques: Laser eye
sion prosthesis p 217 N94-30455
IVOUS SYSTEM
                     al of Aerospace and Environmental
                                        p 215 N94-29863
                     nmersion on muscle sympathetic nerve
                     atic muscle contraction
                                        p 216 N94-29865
                       selective stabilization, and free
                                        p 215 N94-29431
                     URE RADAR
                     mage recovery algorithm for ultrasonic
                                        p 217 N94-30456
                     RING
                     performance: A cognitive systems 
each to modifying an AWACS human
                                       p 222 N94-28861
                     ne NASA Controlled Ecological Life
                     ELSS) program 1989-1992
                                       p 224 N94-30122
                     sk network simulation in workload
                                       p 224 N94-30132
                           T
                     MOITAL
                     ction of grasp force: Effects of glove,
                     e, load, and handle
                                       p 225 N94-30210
                     cal study on the effects of co-existence
                     g dot target
                                      p 221 N94-29867
                     cal study on the effects of co-existence
g dot target p 221 N94-29867
                     k network simulation in workload
                                       p 224 N94-30132
                     SSMENT
                     nent of Mir-1 life support hardware for
                     ce station
                                       p 226 N94-31380
                     ZATION
                     based tracking techniques: Laser eye
on prosthesis p 217 N94-30455
                     gn of obstetrical forceps
                                      p 218 N94-30457
                     perator interface for military robotic
                     uctured environments
                                      p 225 N94-30304
                     net production of moss community
                     Antarctica
                                     p 207 N94-29081
                     TROL
                     stable thermal comfort with a low air
                     ns of local heating
                                      p 224 N94-29950
                     urpal tunnel syndrome
                                      p 219 N94-31363
                     table thermal comfort with a low air
                     ns of local heating
                                      p 224 N94-29950
                     TVITY
Insulative properties of two thermo-metal neoprenes [AD-A275209] p 223 N94-29302
```

p 223 N94-29302

VESTIBULAR NYSTAGMUS

Equilibrium dysfunction in the clinical field p 213 N94-28858

THERMAL INSULATION		VESTIBULAR TESTS	arata a mata
Insulative properties of two ther	mo-metal neoprenes p 223 N94-29302	Equilibrium dysfunction in the	p 213 N94-28858
[AD-A275209] THERMAL RESISTANCE	p 223 1484-28302	Portable Linear Sled (PLS) fo	
Insulative properties of two them	mo-metal necorenes	POLIZING LINEAL SIGO (PLS) TO	p 209 N94-29648
[AD-A275209]	p 223 N94-29302	VESTIBULES	
THERMOPLASTIC RESINS		Basic understanding of vertige	o p 213 N94-28855
Composite redesign of obstetrical		Posture control of goldfishes	
	p 218 N94-30457	_	p 209 N94-29712
THERMOREGULATION Japanese Journal of Aerospace is	and Environmental	VESTS -	
Medicine, vol. 30, no. 2	RUG Enangumenter	Comparison of two cool vests while wearing a firefighting en	
[JTN-94-80599]	p 215 N94-29863	environment	Semole in a non-numb
Effects of make-up on the heat tra	ansfer from the head	[AD-A275103]	p 222 N94-28902
in hyperthermic conditions	p 216 N94-29864	VIBRATION DAMPING	
TITANIUM		Analysis and design of inflata	
Insulative properties of two then			p 226 N94-30799
(AD-A275209)	p 223 N94-29302	VISION	ing tochniques, I near our
TOMOGRAPHY Analysis and an image recovery alg	onithm for ultrasonic	Dual use of image based track surgery and low vision prosthes	
tomography system	p 217 N94-30456	VISUAL ACUITY	p 217 110 100 100
TOXIC HAZARDS		An investigation of stereop	sis with AN/AVS-6 night
Toxicity of carbon monoxide-hy-	drogen cyanide gas	vision goggles at varying lev	
mixtures: Exposure concentration, tir		contrast	
carboxyhemoglobin, and blood cyani		[AD-A275332]	p 222 N94-28918
[DOT/FAA/AM-94/7]	p 216 N94-29919	VISUAL DISCRIMINATION	nana and Environment
Toxicity of some managida hydr	rogen cyanida	Japanese Journal of Aeros Medicine, vol. 30, no. 2	pace and Environmental
Toxicity of carbon monoxide-hydr mixtures: Exposure concentration, tir		Medicine, vol. 30, no. 2 [JTN-94-80599]	p 215 N94-29863
carboxyhemoglobin, and blood cyani		Psychophysiological study on t	•
[DOT/FAA/AM-94/7]	p 216 N94-29919	of lines for detecting dot target	p 221 N94-29867
TOXINS AND ANTITOXINS	•	VISUAL PERCEPTION	
Effects of pressure on membrane-	associated receptors	An investigation of stereopsi	
and effector elements		vision goggles at varying lev	els of illuminance and
[AD-A275813]	p 207 N94-28829	contrast	
TRACKING (POSITION)	ing addining manage	[AD-A275332]	p 222 N94-28918
Non-intrusive gaze tracking usi networks	ing artificial neural	Behavior and visual control	
[AD-A275186]	p 219 N94-28860	microgravity Paychophysiological study on t	p 210 N94-29713
TREES	•	of lines for detecting dot target	p 221 N94-29867
Seed viability detection using comp		VISUAL TASKS	,
radiographic image enhancement	p 211 N94-30461	Scanning and monitoring per	formance: Effects of the
		reinforcement values of the eve	
11		[DOT/FAA/AM-94/8]	p 221 N94-29918
U			
U		Sampling behaviour in a four in	
ULTRASONIC RADIATION		Effects of signal bandwidth an	
ULTRASONIC RADIATION Analysis and an image recovery alg		Effects of signal bandwidth an signal	d number of events per
ULTRASONIC RADIATION Analysis and an image recovery alg tomography system	gorithm for ultrasonic p 217 N94-30456	Effects of signal bandwidth an	
ULTRASONIC RADIATION Analysis and an image recovery alg tomography system ULTRASONIC SCANNERS	p 217 N94-30456	Effects of signal bandwidth an signal [AD-B179613]	d number of events per
ULTRASONIC RADIATION Analysis and an image recovery alg tomography system	p 217 N94-30456 prostatic carcinoma:	Effects of signal bandwidth an signal	d number of events per
ULTRASONIC RADIATION Analysis and an image recovery algomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results	p 217 N94-30456 prostatic carcinoma:	Effects of signal bandwidth an signal (AD-B179613)	d number of events per
ULTRASONIC RADIATION Analysis and an image recovery algotomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029	Effects of signal bandwidth an signal [AD-B179613]	of number of events per
ULTRASONIC RADIATION Analysis and an image recovery algoromography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 t light resistance and	Effects of signal bandwidth an signal [AD-B179613] W WASTE UTILIZATION Publications of the NASA Co	p 225 N94-30422 privaled Ecological Life
ULTRASONIC RADIATION Analysis and an image recovery algomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 It light resistance and rotease	Effects of signal bandwidth an signal [AD-B179613]	p 225 N94-30422 p 225 N94-30422 portrolled Ecological Life
ULTRASONIC RADIATION Analysis and an image recovery algotomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p [AD-A275448]	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 tt light resistance and rotease p 207 N94-28884	Effects of signal bandwidth an signal [AD-B179613] W WASTE UTILIZATION Publications of the NASA Co	p 225 N94-30422 privaled Ecological Life
ULTRASONIC RADIATION Analysis and an image recovery algomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p [AD-A275448] UNDERWATER BREATHING APPARA Advanced seal delivery system life	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 It light resistance and rotease p 207 N94-28884 ATUS support parameters	Effects of signal bandwidth an signal [AD-B179613] W WASTE UTILIZATION Publications of the NASA Co. Support System (CELSS) progra	p 225 N94-30422 p 225 N94-30422 portrolled Ecological Life im 1989-1992 p 224 N94-30122
ULTRASONIC RADIATION Analysis and an image recovery algoromography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p [AD-A275448] UNDERWATER BREATHING APPARAMAVANCED seal delivery system life [AD-A275304]	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 It light resistance and rotease p 207 N94-28884	Effects of signal bandwidth an signal [AD-B179613] W WASTE UTILIZATION Publications of the NASA Co. Support System (CELSS) progra [NASA-CR-4803] WASTE WATER Growth of hydrocarbon-rich braunii in secondarily treated sev	p 225 N94-30422 p 225 N94-30422 portrolled Ecological Life tm 1989-1992 p 224 N94-30122 microalga Botryococcus wage and its consumption
ULTRASONIC RADIATION Analysis and an image recovery algomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p (AD-A275448) UNDERWATER BREATHING APPARA Advanced seal delivery system life (AD-A275304) UNDERWATER VEHICLES	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 It light resistance and rotease p 207 N94-28884 NTUS support parameters p 223 N94-29184	Effects of signal bandwidth an signal [AD-B179613] W WASTE UTILIZATION Publications of the NASA Co Support System (CELSS) progra [NASA-CR-4803] WASTE WATER Growth of hydrocarbon-rich braunii in secondarily treated sev of nitrate ion and phosphate ion	p 225 N94-30422 p 225 N94-30422 portrolled Ecological Life tm 1989-1992 p 224 N94-30122 microalga Botryococcus wage and its consumption
ULTRASONIC RADIATION Analysis and an image recovery algomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p [AD-A275448] UNDERWATER BREATHING APPARA Advanced seal delivery system life [AD-A275304] UNDERWATER VEHICLES Advanced seal delivery system life	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 t light resistance and rotease p 207 N94-28884 ATUS support parameters p 223 N94-29184 support parameters	Effects of signal bandwidth an signal [AD-B179613] W WASTE UTILIZATION Publications of the NASA Co. Support System (CELSS) progra [NASA-CR-4803] WASTE WATER Growth of hydrocarbon-rich braunit in secondarily treated sev of nitrate ion and phosphate ion WORK CAPACITY	p 225 N94-30422 p 225 N94-30422 p 226 N94-30422 p 224 N94-30122 microalga Botryococcus wage and its consumption p 209 N94-29519
ULTRASONIC RADIATION Analysis and an image recovery algomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p (AD-A275448) UNDERWATER BREATHING APPARA Advanced seal delivery system life (AD-A275304) UNDERWATER VEHICLES	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 It light resistance and rotease p 207 N94-28884 NTUS support parameters p 223 N94-29184	Effects of signal bandwidth an signal [AD-B179613] WASTE UTILIZATION Publications of the NASA Cc Support System (CELSS) prograt [NASA-CR-4803] WASTE WATER Growth of hydrocarbon-rich braunii in secondarily treated sev of nitrate ion and phosphate ion WORK CAPACITY Circadian countermeasures	p 225 N94-30422 p 225 N94-30422 portrolled Ecological Life tm 1989-1992 p 224 N94-30122 microalga Botryococcus wage and its consumption p 209 N94-29519 for shiftworkers during
ULTRASONIC RADIATION Analysis and an image recovery algomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p [AD-A275448] UNDERWATER BREATHING APPARA Advanced seal delivery system life [AD-A275304] UNDERWATER VEHICLES Advanced seal delivery system life	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 t light resistance and rotease p 207 N94-28884 ATUS support parameters p 223 N94-29184 support parameters	Effects of signal bandwidth an signal [AD-B179613] W WASTE UTILIZATION Publications of the NASA Co. Support System (CELSS) progra [NASA-CR-4803] WASTE WATER Growth of hydrocarbon-rich braunii in secondarily treated sev of nitrate ion and phosphate ion WORK CAPACITY Circadian countermeasures USMP-2: A report to mission ma	p 225 N94-30422 portrolled Ecological Life term 1989-1992 p 224 N94-30122 microalga Botryococcus wage and its consumption p 209 N94-29519 for shiftworkers during inagement
ULTRASONIC RADIATION Analysis and an image recovery algomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p [AD-A275448] UNDERWATER BREATHING APPARA Advanced seal delivery system life [AD-A275304] UNDERWATER VEHICLES Advanced seal delivery system life	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 t light resistance and rotease p 207 N94-28884 ATUS support parameters p 223 N94-29184 support parameters	Effects of signal bandwidth an signal [AD-B179613] W WASTE UTILIZATION Publications of the NASA Co Support System (CELSS) progra [NASA-CR-4803] WASTE WATER Growth of hydrocarbon-rich braunii in secondarily treated sev of nitrate ion and phosphate ion WORK CAPACITY Circadian countermeasures USMP-2: A report to mission ms [NASA-CR-195260]	p 225 N94-30422 p 225 N94-30422 p 225 N94-30422 p 224 N94-30122 microalga Botryococcus wage and its consumption p 209 N94-29519 for shiftworkers during unagement p 224 N94-30188
ULTRASONIC RADIATION Analysis and an image recovery algomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p [AD-A275448] UNDERWATER BREATHING APPARA Advanced seal delivery system life [AD-A275304] UNDERWATER VEHICLES Advanced seal delivery system life	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 t light resistance and rotease p 207 N94-28884 ATUS support parameters p 223 N94-29184 support parameters	Effects of signal bandwidth an signal [AD-B179613] W WASTE UTILIZATION Publications of the NASA Co. Support System (CELSS) progra [NASA-CR-4803] WASTE WATER Growth of hydrocarbon-rich braunii in secondarily treated sev of nitrate ion and phosphate ion WORK CAPACITY Circadian countermeasures USMP-2: A report to mission ma	p 225 N94-30422 portrolled Ecological Life of 1989-1992 p 224 N94-30122 microalga Botryococcus wage and its consumption p 209 N94-29519 for shiftworkers during inagement p 224 N94-30188 LOGY)
ULTRASONIC RADIATION Analysis and an image recovery algonography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p [AD-A275448] UNDERWATER BREATHING APPARA Advanced seal delivery system life [AD-A275304] UNDERWATER VEHICLES Advanced seal delivery system life [AD-A275304] V VARIABILITY Seed viability detection using comp	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 t light resistance and rotease p 207 N94-2884 ATUS support parameters p 223 N94-29184 support parameters p 223 N94-29184 puterized false-color	Effects of signal bandwidth an signal [AD-B179613] W WASTE UTILIZATION Publications of the NASA Co Support System (CELSS) progra [NASA-CR-4803] WASTE WATER Growth of hydrocarbon-rich braunii in secondarily treated sev of nitrate ion and phosphate ion WORK CAPACITY Circadian countermeasures: USMP-2: A report to mission ms [NASA-CR-195260] WORKLOADS (PSYCHOPHYSIO) Stress and ergonomic des person-machine systems	p 225 N94-30422 portrolled Ecological Life of 1989-1992 p 224 N94-30122 microalga Botryococcus wage and its consumption p 209 N94-29519 for shiftworkers during inagement p 224 N94-30188 LOGY)
ULTRASONIC RADIATION Analysis and an image recovery algomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p (AD-A275448) UNDERWATER BREATHING APPARA Advanced seal delivery system life (AD-A275304) UNDERWATER VEHICLES Advanced seal delivery system life (AD-A275304) V VARIABILITY Seed viability detection using compradiographic image enhancement	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 t light resistance and rotease p 207 N94-28884 ATUS support parameters p 223 N94-29184 support parameters p 223 N94-29184	Effects of signal bandwidth an signal [AD-B179613] WASTE UTILIZATION Publications of the NASA Cc Support System (CELSS) prograt [NASA-CR-4803] WASTE WATER Growth of hydrocarbon-rich braunii in secondarily treated sev of nitrate ion and phosphate ion WORK CAPACITY Circadian countermeasures USMP-2: A report to mission ma [NASA-CR-195260] WORKLOADS (PSYCHOPHYSIO) Stress and ergonomic des	p 225 N94-30422 portrolled Ecological Life of 1989-1992 p 224 N94-30122 microalga Botryococcus wage and its consumption p 209 N94-29519 for shiftworkers during inagement p 224 N94-30188 LOGY)
ULTRASONIC RADIATION Analysis and an image recovery algomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p [AD-A275448] UNDERWATER BREATHING APPARA Advanced seal delivery system life [AD-A275304] UNDERWATER VEHICLES Advanced seal delivery system life [AD-A275304] V VARIABILITY Seed viability detection using compradiographic image enhancement VEGETATION GROWTH	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 t light resistance and rotease p 207 N94-28884 ATUS support parameters p 223 N94-29184 support parameters p 223 N94-29184 puterized false-color p 211 N94-30461	Effects of signal bandwidth an signal [AD-B179613] W WASTE UTILIZATION Publications of the NASA Co Support System (CELSS) progra [NASA-CR-4803] WASTE WATER Growth of hydrocarbon-rich braunii in secondarily treated sev of nitrate ion and phosphate ion WORK CAPACITY Circadian countermeasures USMP-2: A report to mission ma [NASA-CR-195260] WORKLOADS (PSYCHOPHYSIO) Stress and ergonomic desperson-machine systems [AD-AZ75156] The use of task network	p 225 N94-30422 p 225 N94-30422 p 225 N94-30422 p 224 N94-30122 p 224 N94-30122 microalga Botryococcus wage and its consumption p 209 N94-29519 for shiftworkers during unagement p 224 N94-30188 LOGY) ign and evaluation of p 223 N94-29034
ULTRASONIC RADIATION Analysis and an image recovery algomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p [AD-A275448] UNDERWATER BREATHING APPARA Advanced seal delivery system life [AD-A275304] UNDERWATER VEHICLES Advanced seal delivery system life [AD-A275304] V VARIABILITY Seed viability detection using compradiographic image enhancement VeGETATION GROWTH Plant-microbe interactions: Plant ho	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 t light resistance and rotease p 207 N94-28884 ATUS support parameters p 223 N94-29184 support parameters p 223 N94-29184 puterized false-color p 211 N94-30461	Effects of signal bandwidth an signal [AD-B179613] W WASTE UTILIZATION Publications of the NASA Cc Support System (CELSS) progra [NASA-CR-4803] WASTE WATER Growth of hydrocarbon-rich braunii in secondarily treated sev of nitrate ion and phosphate ion WORK CAPACITY Circadian countermeasures: USMP-2: A report to mission ma [NASA-CR-195280] WORKLOADS (PSYCHOPHYSIO) Stress and ergonomic des person-machine systems [AD-A27516] The use of task network prediction	p 225 N94-30422 p 225 N94-30422 p 225 N94-30422 p 224 N94-30122 microalga Botryococcus wage and its consumption p 209 N94-29519 for shiftworkers during anagement p 224 N94-30188 LOGY) p 223 N94-29034 simulation in workload
ULTRASONIC RADIATION Analysis and an image recovery algomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p [AD-A275448] UNDERWATER BREATHING APPARA Advanced seal delivery system life [AD-A275304] UNDERWATER VEHICLES Advanced seal delivery system life [AD-A275304] VARIABILITY Seed viability detection using compradiographic image enhancement VEGETATION GROWTH Plant-microbe interactions: Plant holphyloplane fungi	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 t light resistance and rotease p 207 N94-28884 ATUS support parameters p 223 N94-29184 support parameters p 223 N94-29184 puterized false-color p 211 N94-30461	Effects of signal bandwidth an signal [AD-B179613] W WASTE UTILIZATION Publications of the NASA Co. Support System (CELSS) progra [NASA-CR-4803] WASTE WATER Growth of hydrocarbon-rich braunii in secondarily treated sev of nitrate ion and phosphate ion WORK CAPACITY Circadian countermeasures: USMP-2: A report to mission ma [NASA-CR-195280] WORKLOADS (PSYCHOPHYSIO) Stress and ergonomic desperson-machine systems [AD-A275156] The use of task network prediction [DCIEM-92-32]	p 225 N94-30422 portrolled Ecological Life term 1989-1992 p 224 N94-30122 microalga Botryococcus wage and its consumption p 209 N94-29519 for shiftworkers during terms p 224 N94-30188 LOGY) icign and evaluation of p 223 N94-29034 simulation in workload p 224 N94-30132
ULTRASONIC RADIATION Analysis and an image recovery algomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p (AD-A275448) UNDERWATER BREATHING APPARA Advanced seal delivery system life (AD-A275304) UNDERWATER VEHICLES Advanced seal delivery system life (AD-A275304) V VARIABILITY Seed viability detection using compradiographic image enhancement VEGETATION GROWTH Plant-microbe interactions: Plant hosphyloplane fungi [PB94-135563]	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 It light resistance and rotease p 207 N94-28884 ATUS support parameters p 223 N94-29184 support parameters p 223 N94-29184 puterized false-color p 211 N94-30461	Effects of signal bandwidth an signal [AD-B179613] W WASTE UTILIZATION Publications of the NASA Co Support System (CELSS) progra [NASA-CR-4803] WASTE WATER Growth of hydrocarbon-rich braunii in secondarily treated sev of nitrate ion and phosphate ion WORK CAPACITY Circadian countermeasures USMP-2: A report to mission ma [NASA-CR-195260] WORKLOADS (PSYCHOPHYSIO) Stress and ergonomic des person-machine systems [AD-A275156] The use of task network prediction [DCIEM-92-32] Spectral analysis of heart rate	p 225 N94-30422 microlled Ecological Life um 1989-1992 p 224 N94-30122 microlled Botryococcus wage and its consumption p 209 N94-29519 for shiftworkers during unagement p 224 N94-30188 LOGY) ign and evaluation of p 223 N94-29034 simulation in workload p 224 N94-30132 and psychological state:
ULTRASONIC RADIATION Analysis and an image recovery algomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p (AD-A275448) UNDERWATER BREATHING APPARA Advanced seal delivery system life (AD-A275304) UNDERWATER VEHICLES Advanced seal delivery system life (AD-A275304) VARIABILITY Seed viability detection using compradiographic image enhancement VEGETATION GROWTH Plant-microbe interactions: Plant holphylloplane lungi (PB94-135563) Cellular polarity and interagraviperception	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 It light resistance and notease p 207 N94-2884 ATUS support parameters p 223 N94-29184 support parameters p 223 N94-29184 puterized false-color p 211 N94-30461 rmone production by p 208 N94-29189 ctions in plant	Effects of signal bandwidth an signal [AD-B179613] WASTE UTILIZATION Publications of the NASA Cc Support System (CELSS) prograt [NASA-CR-4803] WASTE WATER Growth of hydrocarbon-rich braunii in secondarily treated sev of nitrate ion and phosphate ion WORK CAPACITY Circadian countermeasures: USMP-2: A report to mission mate [NASA-CR-195260] WORKLOADS (PSYCHOPHYSIO) Stress and ergonomic desperson-machine systems [AD-A275156] The use of task network prediction [DCIEM-92-32] Spectral analysis of heart rate A review of its validity as a work	p 225 N94-30422 microalga Botryococcus wage and its consumption p 209 N94-29519 for shiftworkers during unagement p 224 N94-30188 LOGY) ign and evaluation of p 223 N94-29034 simulation in workload p 224 N94-30132 and psychological state: load index
ULTRASONIC RADIATION Analysis and an image recovery algomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p (AD-A275448) UNDERWATER BREATHING APPARA Advanced seal delivery system life (AD-A275304) UNDERWATER VEHICLES Advanced seal delivery system life (AD-A275304) VARIABILITY Seed viability detection using compradiographic image enhancement VEGETATION GROWTH Plant-microbe interactions: Plant hophylloplane fungi [PB94-135563] Cellular polarity and interagraviperception [NASA-CR-195261]	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 tt light resistance and rotease p 207 N94-28884 TTUS support parameters p 223 N94-29184 support parameters p 223 N94-29184 puterized false-color p 211 N94-30461 rmone production by p 208 N94-29189	Effects of signal bandwidth an signal [AD-B179613] W WASTE UTILIZATION Publications of the NASA Cc Support System (CELSS) progration [NASA-CR-4803] WASTE WATER Growth of hydrocarbon-rich braunii in secondarily treated sever of nitrate ion and phosphate ion WORK CAPACITY Circadian countermeasures: USMP-2: A report to mission material [NASA-CR-195280] WORKLOADS (PSYCHOPHYSIO) Stress and ergonomic desperson-machine systems [AD-A275166] The use of task network prediction [DCIEM-92-32] Spectral analysis of heart rate A review of its validity as a work [AD-B179387]	p 225 N94-30422 microlled Ecological Life um 1989-1992 p 224 N94-30122 microlled Botryococcus wage and its consumption p 209 N94-29519 for shiftworkers during unagement p 224 N94-30188 LOGY) ign and evaluation of p 223 N94-29034 simulation in workload p 224 N94-30132 and psychological state:
ULTRASONIC RADIATION Analysis and an image recovery algomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p (AD-A275448) UNDERWATER BREATHING APPARA Advanced seal delivery system life (AD-A275304) UNDERWATER VEHICLES Advanced seal delivery system life (AD-A275304) VARIABILITY Seed viability detection using comparing comparing the properties of the phylloplane hungi (PB94-135563) Cellular polarity and interagraviperception [NASA-CR-195261] VENTILATION	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 It light resistance and rotease p 207 N94-2884 ATUS support parameters p 223 N94-29184 support parameters p 223 N94-29184 puterized false-color p 211 N94-30461 rmone production by p 208 N94-29189 ctions in plant p 210 N94-29943	Effects of signal bandwidth an signal [AD-B179613] W WASTE UTILIZATION Publications of the NASA Co. Support System (CELSS) progra [NASA-CR-4803] WASTE WATER Growth of hydrocarbon-rich braunii in secondarily treated sev of nitrate ion and phosphate ion WORK CAPACITY Circadian countermeasures: USMP-2: A report to mission ma [NASA-CR-195260] WORKLOADS (PSYCHOPHYSIO) Stress and ergonomic des person-machine systems [AD-A275156] The use of task network prediction [DCIEM-92-32] Spectral analysis of heart rate A review of its validity as a work [AD-B179387] WORKSTATIONS	p 225 N94-30422 controlled Ecological Life Im 1989-1992 p 224 N94-30122 microalga Botryococcus wage and its consumption p 209 N94-29519 for shiftworkers during inagement p 224 N94-30188 LOGY) ign and evaluation of p 223 N94-29034 simulation in workload p 224 N94-30132 and psychological state: cload index p 221 N94-30969
ULTRASONIC RADIATION Analysis and an image recovery alg tomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p (AD-A275448) UNDERWATER BREATHING APPARIA Advanced seal delivery system life (AD-A275304) UNDERWATER VEHICLES Advanced seal delivery system life (AD-A275304) VARIABILITY Seed viability detection using compradiographic image enhancement VEGETATION GROWTH Plant-microbe interactions: Plant hosphylloplane fungi (PB94-135583) Cellular polarity and intera graviperception [NASA-CR-195261] VENTILATION Control of heating, ventiliation and	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 It light resistance and rotease p 207 N94-2884 ATUS support parameters p 223 N94-29184 support parameters p 223 N94-29184 puterized false-color p 211 N94-30461 rmone production by p 208 N94-29189 ctions in plant p 210 N94-29943	Effects of signal bandwidth an signal [AD-B179613] W WASTE UTILIZATION Publications of the NASA Co Support System (CELSS) progra [NASA-CR-4803] WASTE WATER Growth of hydrocarbon-rich braunii in secondarily treated sev of nitrate ion and phosphate ion WORK CAPACITY Circadian countermeasures USMP-2: A report to mission ma [NASA-CR-195260] WORKLOADS (PSYCHOPHYSIO) Stress and ergonomic des person-machine systems [AD-A275156] The use of task network prediction [DCIEM-92-32] Spectral analysis of heart rate A review of its validity as a work [AD-B179387] WORKSTATIONS Minimization of carpal tunnel seeds	p 225 N94-30422 portrolled Ecological Life am 1989-1992 p 224 N94-30122 microalga Botryococcus wage and its consumption p 209 N94-29519 for shiftworkers during anagement p 224 N94-30188 LOGY) ign and evaluation of p 223 N94-29034 simulation in workload p 224 N94-30132 and psychological state: cload index p 221 N94-30969
ULTRASONIC RADIATION Analysis and an image recovery algotomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p (AD-A275448) UNDERWATER BREATHING APPARA Advanced seal delivery system life (AD-A275304) UNDERWATER VEHICLES Advanced seal delivery system life (AD-A275304) VARIABILITY Seed viability detection using compradiographic image enhancement VEGETATION GROWTH Plant-microbe interactions: Plant hophylloplane fungi [PB94-135563] Cellular polarity and interagraviperception [NASA-CR-195261] VENTILATION Control of heating, ventilation an (HVAC) systems	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 It light resistance and rotease p 207 N94-28884 ITUS support parameters p 223 N94-29184 support parameters p 223 N94-29184 ruport parameters p 223 N94-29184 puterized false-color p 211 N94-30461 rmone production by p 208 N94-29189 ctions in plant p 210 N94-29943 and air conditioning	Effects of signal bandwidth an signal [AD-B179613] W WASTE UTILIZATION Publications of the NASA Co Support System (CELSS) progras [NASA-CR-4803] WASTE WATER Growth of hydrocarbon-rich braunii in secondarily treated sev of nitrate ion and phosphate ion WORK CAPACITY Circadian countermeasures USMP-2: A report to mission material [NASA-CR-195260] WORKLOADS (PSYCHOPHYSIO) Stress and ergonomic desperson-machine systems [AD-A275156] The use of task network prediction [DCIEM-92-32] Spectral analysis of heart rate A review of its validity as a work [AD-B179387] WORKSTATIONS Minimization of carpal tunnel standards.	p 225 N94-30422 controlled Ecological Life Im 1989-1992 p 224 N94-30122 microalga Botryococcus wage and its consumption p 209 N94-29519 for shiftworkers during inagement p 224 N94-30188 LOGY) ign and evaluation of p 223 N94-29034 simulation in workload p 224 N94-30132 and psychological state: cload index p 221 N94-30969
ULTRASONIC RADIATION Analysis and an image recovery algomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p [AD-A275448] UNDERWATER BREATHING APPARA Advanced seal delivery system life [AD-A275304] UNDERWATER VEHICLES Advanced seal delivery system life [AD-A275304] VARIABILITY Seed viability detection using comparatiographic image enhancement VEGETATION GROWTH Plant-microbe interactions: Plant hosphylloplane fungi [PB94-13563] Cellular polarity and intera graviperception [NASA-CR-195261] VENTILATION Control of heating, ventilation and [NYAC] systems [PB94-138807]	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 It light resistance and rotease p 207 N94-2884 ATUS support parameters p 223 N94-29184 support parameters p 223 N94-29184 puterized false-color p 211 N94-30461 rmone production by p 208 N94-29189 ctions in plant p 210 N94-29943	Effects of signal bandwidth an signal [AD-B179613] W WASTE UTILIZATION Publications of the NASA Co. Support System (CELSS) progration [NASA-CR-4803] WASTE WATER Growth of hydrocarbon-rich braunii in secondarily treated sever intrate ion and phosphate ion WORK CAPACITY Circadian countermeasures: USMP-2: A report to mission material [NASA-CR-195280] WORKLOADS (PSYCHOPHYSIO) Stress and ergonomic desperson-machine systems [AD-A275166] The use of task network prediction [DCIEM-92-32] Spectral analysis of heart rate A review of its validity as a work [AD-B179387] WORKSTATIONS Minimization of carpal tunnel standard prediction [AD-A276409] WRIST	p 225 N94-30422 p 225 N94-30422 p 225 N94-30422 p 224 N94-30122 microalga Botryococcus wage and its consumption p 209 N94-29519 for shiftworkers during anagement p 224 N94-30188 LOGY) p 223 N94-29034 simulation in workload p 224 N94-30132 and psychological state: cload index p 221 N94-30969 syndrome p 219 N94-31363
ULTRASONIC RADIATION Analysis and an image recovery algomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p (AD-A275448) UNDERWATER BREATHING APPARA Advanced seal delivery system life (AD-A275304) UNDERWATER VEHICLES Advanced seal delivery system life (AD-A275304) VARIABILITY Seed viability detection using compradiographic image enhancement VEGETATION GROWTH Plant-microbe interactions: Plant hor phylloplane fungi [PB94-135563] Cellular polarity and interagraviperception [NASA-CR-195261] VENTILATION Control of heating, ventilation and (HVAC) systems [PB94-138807] VENTILATION FANS Comparison of two cool vests on heatings of two cool vests	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 It light resistance and rotease p 207 N94-28884 ITUS support parameters p 223 N94-29184 support parameters p 223 N94-29184 puterized false-color p 211 N94-30461 Immone production by p 208 N94-29189 ctions in plant p 210 N94-29943 Indiair conditioning p 224 N94-30000 heat-strain reduction	Effects of signal bandwidth an signal [AD-B179613] W WASTE UTILIZATION Publications of the NASA Co Support System (CELSS) progras [NASA-CR-4803] WASTE WATER Growth of hydrocarbon-rich braunii in secondarily treated sev of nitrate ion and phosphate ion WORK CAPACITY Circadian countermeasures USMP-2: A report to mission material [NASA-CR-195260] WORKLOADS (PSYCHOPHYSIO) Stress and ergonomic desperson-machine systems [AD-A275156] The use of task network prediction [DCIEM-92-32] Spectral analysis of heart rate A review of its validity as a work [AD-B179387] WORKSTATIONS Minimization of carpal tunnel standards.	p 225 N94-30422 p 225 N94-30422 p 225 N94-30422 p 224 N94-30122 microalga Botryococcus wage and its consumption p 209 N94-29519 for shiftworkers during anagement p 224 N94-30188 LOGY) p 223 N94-29034 simulation in workload p 224 N94-30132 and psychological state: cload index p 221 N94-30969 syndrome p 219 N94-31363
ULTRASONIC RADIATION Analysis and an image recovery algomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p [AD-A275448] UNDERWATER BREATHING APPARA Advanced seal delivery system life [AD-A275304] UNDERWATER VEHICLES Advanced seal delivery system life [AD-A275304] VARIABILITY Seed viability detection using compradiographic image enhancement VEGETATION GROWTH Plant-microbe interactions: Plant hor phylloplane fungi [PB94-13583] Cellular polarity and intera graviperception [NASA-CR-195261] VENTILATION Control of heating, ventilation and (HVAC) systems [PB94-138807] VENTILATION FANS Comparison of two cool vests on hybrid wearing a firefighting ensem	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 It light resistance and rotease p 207 N94-28884 ITUS support parameters p 223 N94-29184 support parameters p 223 N94-29184 puterized false-color p 211 N94-30461 Immone production by p 208 N94-29189 ctions in plant p 210 N94-29943 Indiair conditioning p 224 N94-30000 heat-strain reduction	Effects of signal bandwidth an signal [AD-B179613] W WASTE UTILIZATION Publications of the NASA Co. Support System (CELSS) progration [NASA-CR-4803] WASTE WATER Growth of hydrocarbon-rich braunii in secondarily treated sever of nitrate ion and phosphate ion WORK CAPACITY Circadian countermeasures: USMP-2: A report to mission material [NASA-CR-195260] WORKLOADS (PSYCHOPHYSIO) Stress and ergonomic desperson-machine systems [AD-A275156] The use of task network prediction [DCIEM-92-32] Spectral analysis of heart rate A review of its validity as a work [AD-B179387] WORKSTATIONS Minimization of carpal tunnel at [AD-A276409] WRIST Minimization of carpal tunnel at [AD-A276409] WRIST	p 225 N94-30422 controlled Ecological Life tm 1989-1992 p 224 N94-30122 microalga Botryococcus wage and its consumption p 209 N94-29519 for shiftworkers during transpersent p 224 N94-30188 LOGY) iden and evaluation of p 223 N94-29034 simulation in workload p 224 N94-30132 and psychological state: load index p 221 N94-30969 syndrome p 219 N94-31363
ULTRASONIC RADIATION Analysis and an image recovery alg tomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultreviole regulation of the activity of a spore p (AD-A275448) UNDERWATER BREATHING APPARA Advanced seal delivery system life (AD-A275304) UNDERWATER VEHICLES Advanced seal delivery system life (AD-A275304) V VARIABILITY Seed viability detection using comy radiographic image enhancement VEGETATION GROWTH Plant-microbe interactions: Plant hosphylloplane fungi (PB94-135583) Cellular polarity and intera graviperception (INASA-CR-195261) VENTILATION Control of heating, ventilation and (HVAC) systems (PB94-138807) VENTILATION FANS Comparison of two cool vests on hybrid wearing a firefighting enseme environment	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 t light resistance and rotease p 207 N94-2884 ATUS support parameters p 223 N94-29184 support parameters p 223 N94-29184 puterized false-color p 211 N94-30461 rmone production by p 208 N94-29189 ctions in plant p 210 N94-29943 and air conditioning p 224 N94-30000 neat-strain reduction tickle in a hot/humid	Effects of signal bandwidth an signal [AD-B179613] W WASTE UTILIZATION Publications of the NASA Co. Support System (CELSS) progration [NASA-CR-4803] WASTE WATER Growth of hydrocarbon-rich braunii in secondarily treated sever of nitrate ion and phosphate ion WORK CAPACITY Circadian countermeasures: USMP-2: A report to mission material [NASA-CR-195260] WORKLOADS (PSYCHOPHYSIO) Stress and ergonomic desperson-machine systems [AD-A275156] The use of task network prediction [DCIEM-92-32] Spectral analysis of heart rate A review of its validity as a work [AD-B179387] WORKSTATIONS Minimization of carpal tunnel at [AD-A276409] WRIST Minimization of carpal tunnel at [AD-A276409]	p 225 N94-30422 controlled Ecological Life tm 1989-1992 p 224 N94-30122 microalga Botryococcus wage and its consumption p 209 N94-29519 for shiftworkers during transpersent p 224 N94-30188 LOGY) iden and evaluation of p 223 N94-29034 simulation in workload p 224 N94-30132 and psychological state: load index p 221 N94-30969 syndrome p 219 N94-31363
ULTRASONIC RADIATION Analysis and an image recovery algonography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p (AD-A275448) UNDERWATER BREATHING APPARA Advanced seal delivery system life (AD-A275304) UNDERWATER VEHICLES Advanced seal delivery system life (AD-A275304) VARIABILITY Seed viability detection using compradiographic image enhancement VEGETATION GROWTH Plant-microbe interactions: Plant hor phylloplane fungi [PB94-135563] Cellular polarity and interagraviperception [NASA-CR-195261] VENTILATION Control of heating, ventilation and (HVAC) systems (PB94-138807) VENTILATION FANS Comparison of two cool vests on heating a firefighting ensement (AD-A275103)	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 It light resistance and rotease p 207 N94-28884 ITUS support parameters p 223 N94-29184 support parameters p 223 N94-29184 puterized false-color p 211 N94-30461 rmone production by p 208 N94-29189 ctions in plant p 210 N94-29943 and air conditioning p 224 N94-30000 neat-strain reduction	Effects of signal bandwidth an signal [AD-B179613] W WASTE UTILIZATION Publications of the NASA Co. Support System (CELSS) progration [NASA-CR-4803] WASTE WATER Growth of hydrocarbon-rich braunii in secondarily treated sever of nitrate ion and phosphate ion WORK CAPACITY Circadian countermeasures: USMP-2: A report to mission material [NASA-CR-195260] WORKLOADS (PSYCHOPHYSIO) Stress and ergonomic desperson-machine systems [AD-A275156] The use of task network prediction [DCIEM-92-32] Spectral analysis of heart rate A review of its validity as a work [AD-B179387] WORKSTATIONS Minimization of carpal tunnel at [AD-A276409] WRIST Minimization of carpal tunnel at [AD-A276409] WRIST	p 225 N94-30422 controlled Ecological Life tm 1989-1992 p 224 N94-30122 microalga Botryococcus wage and its consumption p 209 N94-29519 for shiftworkers during transpersent p 224 N94-30188 LOGY) iden and evaluation of p 223 N94-29034 simulation in workload p 224 N94-30132 and psychological state: load index p 221 N94-30969 syndrome p 219 N94-31363
ULTRASONIC RADIATION Analysis and an image recovery algomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p [AD-A275448] UNDERWATER BREATHING APPARA Advanced seal delivery system life [AD-A275304] UNDERWATER VEHICLES Advanced seal delivery system life [AD-A275304] VARIABILITY Seed viability detection using compradiographic image enhancement VEGETATION GROWTH Plant-microbe interactions: Plant hophylloplane fungi [PB94-135563] Cellular polarity and intera graviperception [NASA-CR-195261] VENTILATION Control of heating, ventilation and (HVAC) systems [PB94-138807] VENTILATION fans Comparison of two cool vests on him while wearing a firefighting ensemination.	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 tt light resistance and rotease p 207 N94-28884 TUS support parameters p 223 N94-29184 support parameters p 223 N94-29184 puterized false-color p 211 N94-30461 rmone production by p 208 N94-29189 ctions in plant p 210 N94-29943 and air conditioning p 224 N94-30000 neat-strain reduction to be in a hot/humid	Effects of signal bandwidth an signal [AD-B179613] W WASTE UTILIZATION Publications of the NASA Co Support System (CELSS) prograt [NASA-CR-4803] WASTE WATER Growth of hydrocarbon-rich braunii in secondarily treated sev of nitrate ion and phosphate ion WORK CAPACITY Circadian countermeasures: USMP-2: A report to mission ms [NASA-CR-195260] WORKLOADS (PSYCHOPHYSIO) Stress and ergonomic desperson-machine systems [AD-A275156] The use of task network prediction [OCIEM-92-32] Spectral analysis of heart rate A review of its validity as a work [AD-B179387] WORKSTATIONS Minimization of carpal tunnel at [AD-A276409] WRIST Minimization of carpal tunnel at [AD-A276409]	p 225 N94-30422 controlled Ecological Life tm 1989-1992 p 224 N94-30122 microalga Botryococcus wage and its consumption p 209 N94-29519 for shiftworkers during transpersent p 224 N94-30188 LOGY) iden and evaluation of p 223 N94-29034 simulation in workload p 224 N94-30132 and psychological state: load index p 221 N94-30969 syndrome p 219 N94-31363
ULTRASONIC RADIATION Analysis and an image recovery algonography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p (AD-A275448) UNDERWATER BREATHING APPARA Advanced seal delivery system life (AD-A275304) UNDERWATER VEHICLES Advanced seal delivery system life (AD-A275304) VARIABILITY Seed viability detection using compradiographic image enhancement VEGETATION GROWTH Plant-microbe interactions: Plant hor phylloplane fungi [PB94-135563] Cellular polarity and interagraviperception [NASA-CR-195261] VENTILATION Control of heating, ventilation and (HVAC) systems (PB94-138807) VENTILATION FANS Comparison of two cool vests on heating a firefighting ensement (AD-A275103)	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 t light resistance and rotease p 207 N94-2884 ATUS support parameters p 223 N94-29184 support parameters p 223 N94-29184 puterized false-color p 211 N94-30461 rmone production by p 208 N94-29189 ctions in plant p 210 N94-29943 and air conditioning p 224 N94-30000 neat-strain reduction tible in a hot/humid p 222 N94-28902 p 213 N94-28855	Effects of signal bandwidth an signal [AD-B179613] WASTE UTILIZATION Publications of the NASA Cc Support System (CELSS) progras [NASA-CR-4803] WASTE WATER Growth of hydrocarbon-rich braunii in secondarily treated sev of nitrate ion and phosphate ion WORK CAPACITY Circadian countermeasures: USMP-2: A report to mission ma [NASA-CR-195280] WORKLOADS (PSYCHOPHYSIO) Stress and ergonomic desperson-machine systems [AD-A275156] The use of task network prediction [OCIEM-92-32] Spectral analysis of heart rate A review of its validity as a work [AD-B179387] WORKSTATIONS Minimization of carpal tunnel at [AD-A276409] WRIST Minimization of carpal tunnel at [AD-A276409]	p 225 N94-30422 microlled Ecological Life tim 1989-1992 p 224 N94-30122 microalga Botryococcus wage and its consumption p 209 N94-29519 for shiftworkers during tinagement p 224 N94-30188 LOGY) iden and evaluation of p 223 N94-29034 simulation in workload p 224 N94-30132 and psychological state: idead index p 221 N94-30969 syndrome p 219 N94-31363 syndrome p 219 N94-31363
ULTRASONIC RADIATION Analysis and an image recovery algotomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p (AD-A275448) UNDERWATER BREATHING APPARA Advanced seal delivery system life (AD-A275304) UNDERWATER VEHICLES Advanced seal delivery system life (AD-A275304) VARIABILITY Seed viability detection using compradiographic image enhancement VEGETATION GROWTH Plant-microbe interactions: Plant hophylloplane fungi (PB94-135563) Cellular polarity and intera graviperception (INASA-CR-195261) VENTILATION Control of heating, ventilation and (HVAC) systems (PB94-138807) VENTILATION FANS Comparison of two cool vests on hille wearing a firefighting ensementionment (AD-A275103) VERTIGO Basic understanding of vertigo Space and vertigo: In relation sickness	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 It light resistance and rotease p 207 N94-2884 ATUS support parameters p 223 N94-29184 support parameters p 223 N94-29184 puterized false-color p 211 N94-30461 rmone production by p 208 N94-29189 ctions in plant p 210 N94-29943 Ind air conditioning p 224 N94-30000 heat-strain reduction bible in a hot/furnid p 222 N94-28902 p 213 N94-28855 to space motion p 213 N94-28855	Effects of signal bandwidth an signal [AD-B179613] W WASTE UTILIZATION Publications of the NASA Co. Support System (CELSS) progration [NASA-CR-4803] WASTE WATER Growth of hydrocarbon-rich braunii in secondarily treated sever of nitrate ion and phosphate ion WORK CAPACITY Circadian countermeasures: USMP-2: A report to mission material [NASA-CR-195260] WORKLOADS (PSYCHOPHYSIO) Stress and ergonomic desperson-machine systems [AD-A275156] The use of task network prediction [DCIEM-92-32] Spectral analysis of heart rate A review of its validity as a work [AD-B179387] WORKSTATIONS Minimization of carpal tunnel at [AD-A276409] WRIST Minimization of carpal tunnel at [AD-A276409] X X RAYS Characteristics of secondary electric contents and carpate contents are contents and carpacity an	p 225 N94-30422 portrolled Ecological Life Im 1989-1992 p 224 N94-30122 microalga Botryococcus wage and its consumption p 209 N94-29519 for shiftworkers during inagement p 224 N94-30188 LOQY) iden and evaluation of p 223 N94-29034 simulation in workload p 224 N94-30132 and psychological state: cload index p 221 N94-30969 syndrome p 219 N94-31363 syndrome p 219 N94-31363
ULTRASONIC RADIATION Analysis and an image recovery algomography system ULTRASONIC SCANNERS Conformal external radiotherapy of Requirements and preliminary results ULTRAVIOLET RADIATION Studies on bacterial spore ultraviole regulation of the activity of a spore p (AD-A275448) UNDERWATER BREATHING APPARA Advanced seal delivery system life (AD-A275304) UNDERWATER VEHICLES Advanced seal delivery system life (AD-A275304) VARIABILITY Seed viability detection using compradiographic image enhancement VEGETATION GROWTH Plant-microbe interactions: Plant hor phylloplane fungi [PB94-135563] Cellular polarity and interagraviperception [NASA-CR-195261] VENTILATION Control of heating, ventilation and (HVAC) systems (PB94-138807) VENTILATION FANS Comparison of two cool vests on hymile wearing a firefighting enseminarity increment [AD-A275103] VERTIGO Basic understanding of vertigo Space and vertigo: In relation	p 217 N94-30456 prostatic carcinoma: p 217 N94-30029 It light resistance and rotease p 207 N94-2884 ATUS support parameters p 223 N94-29184 support parameters p 223 N94-29184 puterized false-color p 211 N94-30461 rmone production by p 208 N94-29189 ctions in plant p 210 N94-29943 Ind air conditioning p 224 N94-30000 heat-strain reduction bible in a hot/furnid p 222 N94-28902 p 213 N94-28855 to space motion p 213 N94-28855	Effects of signal bandwidth an signal [AD-B179613] WASTE UTILIZATION Publications of the NASA Cc Support System (CELSS) progras [NASA-CR-4803] WASTE WATER Growth of hydrocarbon-rich braunii in secondarily treated sev of nitrate ion and phosphate ion WORK CAPACITY Circadian countermeasures: USMP-2: A report to mission ma [NASA-CR-195280] WORKLOADS (PSYCHOPHYSIO) Stress and ergonomic desperson-machine systems [AD-A275156] The use of task network prediction [OCIEM-92-32] Spectral analysis of heart rate A review of its validity as a work [AD-B179387] WORKSTATIONS Minimization of carpal tunnel at [AD-A276409] WRIST Minimization of carpal tunnel at [AD-A276409]	p 225 N94-30422 portrolled Ecological Life Im 1989-1992 p 224 N94-30122 microalga Botryococcus wage and its consumption p 209 N94-29519 for shiftworkers during inagement p 224 N94-30188 LOQY) iden and evaluation of p 223 N94-29034 simulation in workload p 224 N94-30132 and psychological state: cload index p 221 N94-30969 syndrome p 219 N94-31363 syndrome p 219 N94-31363

Role of x ray-induced transcripts in aduptive responses

p 211 N94-30895

following x rays [DE94-005412]

YEAST Plant-microbe interactions: Plant hormone production by phylloplane fungi [PB94-135563] p 208 N94-29189

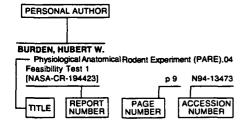
Z

ZOOPLANKTON

Copepods collected along 33.5 deg E longitude of the Antarctic Ocean in the 1976 summer p 207 N94-29082

AEROSPACE MEDICINE AND BIOLOGY / A Continuing Bibliography (Supplement 390)

Typical Personal Author Index Listing



Listings in this index are arranged alphabetically by personal author. The title of the document is used to provide a brief description of the subject matter. The report number helps to indicate the type of document (e.g., NASA report, translation, NASA contractor report). The page and accession numbers are located beneath and to the right of the title. Under any one author's name the accession numbers are arranged in sequence.

Α

ABER. G. S.

Development of the NASA/Baylor VAD

p 218 N94-30458

ADELMAN, LEONARD

Designing for performance: A cognitive systems engineering approach to modifying an AWACS human

p 222 N94-28861 [AD-A275187]

AKKERMAN, A.

Characteristics of secondary electron emission from Cal induced by x rays with energies up to 100 keV [DE94-608422] p 217 N94-30185

AKKERMAN, J. W.

Development of the NASA/Baylor VAD

p 218 N94-30458

ANDRIOLE, STEPHEN J.

Designing for performance: A cognitive systems engineering approach to modifying an AWACS human computer interface [AD-A275187] p 222 N94-28861

AOYAGI, YUKITOSHI

Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing

IAD-A2751761

ARMENTROUT, JEFFREY J. An investigation of stereopsis with AN/AVS-6 night vision goggles at varying levels of illuminance and

contrast [AD-A275332]

p 222 N94-28918

p 214 N94-29049

ASUKATA, ICHIRO

Japanese Journal of Aerospace and Environmental

Medicine, volume 30, no. 1 p 212 N94-28850 [JTN-94-80598] Japanese Journal of Aerospace and Environmental

Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-29863

В

BACAK, J. W.

Development of the NASA/Baylor VAD p 218 N94-30458 BAGDIGIAN, R. M.

Technical assessment of Mir-1 life support hardware for the international space station

[NASA-TM-108441] BALDWIN, ULF I.

p 226 N94-31380

Remote control of transcranial Doppler (TCD) probe during centrifuge exposures up to 9 +Gz [AD-A275253] p 2 p 223 N94-29029

BALWA, SHUMEET

Non-intrusive gaze tracking using artificial neural networks p 219 N94-28860

[AD-A275186] BANTA, G.

Physiological responses during shipboard firefighting p 214 N94-28912

[AD-A275104]

BARTLETT, RODNEY J. International Journal of Quantum Chemistry, Quantum Biology Symposium number 20. Proceedings of the International Symposium on the Application of Fundamental Theory to Problems of Biology and

Pharmacology AD-A276294

p 212 N94-31294 BAUER, DANIEL H.

Procedures and metrics for anti-G suit evaluations p 223 N94-28997 [AD-A275349] BENNETT, BRAD L.

Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment

[AD-A275103] p 222 N94-28902 Physiological responses during shipboard firefightin [AD-A275104] p 214 N94-2891 D 214 N94-28912 BISHU, RAM R.

Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle

[NASA-TP-3474] p 225 N94-30210 BOHNEN, H. G. M.

Sampling behaviour in a four instrument monitoring task: Effects of signal bandwidth and number of events per

signal [AD-B179613] p 225 N94-30422 BOLLA, M.

Computer Assisted Medical Interventions: Application to Conformal Radiotherapy

(RR-912-I) p 216 N94-30028 Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029

BOLLA, MICHEL
Pre- and intra-radiotherapy

multimodal image registration: Principles and first experime p 217 N94-30030

BOOTHMAN, D. A.

Role of x ray-induced transcripts in adaptive responses following x rays [DE94-005412] p 211 N94-30895

BOS, J. F. T.

Aiding the operator in the manual control of a space

p 210 N94-29783

manipu p 225 N94-30390 [P894-125549] BOUSSE, L. J.

Microfabricated silicon biosensors microphysiometry

BOZEMAN, R. J., JR.

Development of the NASA/Baylor VAD p 218 N94-30458

BRESKIN, A.

Characteristics of secondary electron emission from Csl induced by x rays with energies up to 100 keV p 217 N94-30185 [DE94-608422]

BRONKEMA, LISA A. Tactility as a function of grasp force: Effects of glove,

orientation, pressure, load, and handle p 225 N94-30210 [NASA-TP-3474]

BRUNIE, L. Computer Assisted Medical Interventions: Application to Conformal Radiotherapy

p 216 N94-30028 (RR-912-I) BRUNIE, LIÓNEL and intra-radiotherapy multimodal image

registration: Principles and first experiments p 217 N94-30030

BULSARA, A. R.

Towards simplicity: Noise and cooperation in the perfect integrator

[AD-A276256]

p 222 N94-31291

BURDEN, HUBERT W.

Physiological Anatomical Rodent Experiment (PARE) .04 feasibility test 2 [NASA-CR-195210] p 210 N94-29968

BURNS, JOHN W.

Comparative centrifuge evaluation of the Air Force

Advanced Technology Anti-G Suit (ATAGS) and the Navy Enhanced Anti-G Lower Ensemble (EAGLE) p 222 N94-28996 [AD-A275348]

CAIN, D.

Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid

[AD-A275103] CARRASQUILLO, R. L. p 222 N94-28902

Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380

CARTER, D. L.

Technical assessment of Mir-1 life support hardware for

the international space station [NASA-TM-108441]

p 226 N94-31380

CASSANTO, JOHN

Microencapsulation of anti-tumor, antibiotic thrombolytic drugs in microgravity p 217 N94-30453

CHATURVEDI, ARVIND K. Toxicity of carbon monoxide-hydrogen cyanide gas

mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters p 216 N94-29919

[DOT/FAA/AM-94/7]

CHECHIK, R.

Characteristics of secondary electron emission from Csl induced by x rays with energies up to 100 keV p 217 N94-30185 [DE94-608422]

CHRYSTALL K.

Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304

CINQUIN. P. Computer Assisted Medical Interventions: Application to Conformal Radiotherapy

p 216 N94-30028 [RR-912-11 Conformal external radiotherapy of prostatic carcinoma:

Requirements and preliminary results p 217 N94-30029

CINQUIN, PHILIPPE

Pre- and intra-radiotherapy multime registration: Principles and first experiments multimodal image p 217 N94-30030

COFFEY, BENJAMIN J.

Human pilot response during single- and multi-axis tracking tasks [AD-A275080] p 220 N94-28887

COLES, L. STEPHEN

A fuzzy logic controller for hormone administration using an implantable pump p 218 N94-30459

D

DALSOGLIO, S.

Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029

DAMM, G. A.

Development of the NASA/Baylor VAD

DERION, T.

A review of microclimate cooling systems in the chemical, biological, radiological environment

[AD-A276448] p 226 N94-31302

p 218 N94-30458

	GREENLEAF, J. E.	ILVESOKSA, J.
DESBAT, L. Computer Assisted Medical Interventions: Application to	Leg muscle volume during 30-day 6-degree head-down	Plant-microbe interactions: Plant hormone production by
Conformal Radiotherapy	bed rest with isotonic and isokinetic exercise training	phylloplane fungi [PB94-135563] p 208 N94-29189
[RR-912-I] p 216 N94-30028	[NASA-TM-4580] p 208 N94-29401	INAMURA, KINSAKU
Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results	• •	Effect of water immersion on muscle sympathetic nerve
p 217 N94-30029	Н ,	response during static muscle contraction p 216 N94-29865
DOLLINS, ANDREW B.	·	INO, YOSHIO
Strategies to sustain and enhance performance in stressful environments	HAGAN, R. D. Comparison of two cool vests on heat-strain reduction	Estimation of the net production of moss community
[AD-A275223] p 220 N94-29027	while wearing a firefighting ensemble in a hot/humid	at Langhovde, East Antarctica p 207 N94-29081
DOTE, YUTAKA	environment	INOUE, SEIICHI
Growth of hydrocarbon-rich microalga Botryococcus	[AD-A275103] p 222 N94-28902	Growth of hydrocarbon-rich microalga Botryococcus braunii in secondarily treated sewage and its consumption
braunii in secondarily treated sewage and its consumption of nitrate ion and phosphate ion p 209 N94-29519	Physiological responses during shipboard firefighting [AD-A275104] p 214 N94-28912	of nitrate ion and phosphate ion p 209 N94-29519
DOWLING, MARGARET	[AD-A275104] p 214 N94-28912 HARTMAN, BRYCE O.	ISHII, MASANORI
Portable ventilatory resuscitation systems	Situational awareness: A feasibility investigation of	Space and vertigo: In relation to space motion sickness p 213 N94-28857
[AD-A274984] p 223 N94-29093	near-threshold skills development	sickness p 213 N94-28857 ISHIJIMA, YOSHIRO
DOYAL, ROY Blast overpressure studies with animals and man	[AD-A276467] p 221 N94-31243	Effect of chronic centrifugation on in vitro fertilization
[AD-A275038] p 214 N94-29150	HASHIBA, MOTOYUKI Basic understanding of vertigo p 213 N94-28855	and early development in mice ova p 207 N94-28853
DREWERY, J. S.	Basic understanding of vertigo p 213 N94-28855 HAYES, JULIE	ISHIKURA, SEIZO Hemodynamic measurement during parabolic flight
Hydrogenated amorphous silicon (a-Si:H) based gamma	Circadian countermeasures for shiftworkers during	p 215 N94-29717
camera: Monte Carlo simulations (DE94-007042) p 219 N94-31323	USMP-2: A report to mission management	ITO, MASAO
DUCHARME, MICHAEL B.	[NASA-CR-195260] p 224 N94-30188	Arterial oxygen saturation during + Gz acceleration by
Insulative properties of two thermo-metal neoprenes	HENDY, KEITH C. The use of task network simulation in workload	short-radius centrifuge p 212 N94-28852 Effect of chronic centrifugation on in vitro fertilization
[AD-A275209] p 223 N94-29302	prediction	and early development in mice ova p 207 N94-28853
DUSSERRE, A.	[DCIEM-92-32] p 224 N94-30132	IWASAKI, KENICHI
Computer Assisted Medical Interventions: Application to Conformal Radiotherapy	HICKS, WILLIAM	Arterial oxygen saturation during +Gz acceleration by
[RR-912-I] p 216 N94-30028	Blast overpressure studies with animals and man	short-radius centrifuge p 212 N94-28852
Conformal external radiotherapy of prostatic carcinoma:	[AD-A275038] p 214 N94-29150	Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853
Requirements and preliminary results	HILL, ED Minimization of carpal tunnel syndrome	IWASE, SATOSHI
p 217 N94-30029	[AD-A276409] p 219 N94-31363	Effect of water immersion on muscle sympathetic nerve
_	HILL, RONALD C.	response during static muscle contraction
E	Comparative centrifuge evaluation of the Air Force	p 216 N94-29865
	Advanced Technology Anti-G Suit (ATAGS) and the Navy Enhanced Anti-G Lower Ensemble (EAGLE)	1
EBEL, RENE	[AD-A275348] p 222 N94-28996	J
Interactive reconstruction of anatomical structures with free-form surfaces	HINMAN-SWEENEY, ELAINE MARIE	JAIN. M.
[TELECOM-93-E-002] p 219 N94-31195	EVA glove evaluation methodology and test protocol	One carbon metabolism in anaerobic bacteria:
EDDY, TRAVIS	p 224 N94-29729 HIRAL ATSUO	Regulation of carbon and electron flow during organic acid
Remote control of transcranial Doppler (TCD) probe	Effect of food intake on skin vasomotor responses to	production [DE94-004852] p 211 N94-30180
during centrifuge exposures up to 9 +Gz [AD-A275253] p 223 N94-29029	head-up tilt in humans p 212 N94-28854	JIN, MICHAEL Y.
EDKINS, CRAIG R.	Effects of make-up on the heat transfer from the head	Analysis and an image recovery algorithm for ultrasonic
Human pilot response during single- and multi-axis	in hyperthermic conditions p 216 N94-29864 HIRASHITA, MASAMI	tomography system p 217 N94-30456
tracking tasks	Effects of make-up on the heat transfer from the head	JING, T. Hydrogenated amorphous silicon (a-Si:H) based gamma
[AD-A275080] p 220 N94-28887 EGUCHI, HOSHIO	in hyperthermic conditions p 216 N94-29864	camera: Monte Carlo simulations
	HIRATA, KOZO	[DE94-007042] p 219 N94-31323
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713	HIRATA, KOZO Effects of make-up on the heat transfer from the head	JOHNSON, DANIEL L
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 ELLIS, S.	HIRATA, KOZO	JOHNSON, DANÍEL L. Blast overpressure studies with animals and man
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during	JOHNSON, DANIEL L
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight p 221 N94-29716	JOHNSON, DANIEL L. Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Monitor for status epilepticus seizures
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 HOLDER, D. W., JR.	JOHNSON, DANIEL L. Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Monitor for status epilepticus seizures p 218 N94-30460
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 ENDECOTT, BOYD R. Toxicity of carbon monoxide-hydrogen cyanide gas	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 HOLDER, D. W., JR. Technical assessment of Mir-1 life support hardware for the international space station	JOHNSON, DANÍEL L. Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Monitor for status epilepticus seizures p 218 N94-30460 JOHNSON, MARK A.
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 ENDECOTT, BOYD R. Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation,	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight HOLDER, D. W., JR. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380	JOHNSON, DANIEL L. Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Monitor for status epilepticus seizures p 218 N94-30460 JOHNSON, MARK A. Synaptogenesis, selective stabilization, and free association
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 ENDECOTT, BOYD R. Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxytemoglobin, and blood cyanide parameters	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 HOLDER, D. W., JR. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] HONG, W. S.	JOHNSON, DANÍEL L. Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Monitor for status epilepticus seizures p 218 N94-30460 JOHNSON, MARK A. Synaptogenesis, selective stabilization, and free association [AD-A275250] p 215 N94-29431
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 ENDECOTT, BOYD R. Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation,	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight HOLDER, D. W., JR. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380	JOHNSON, DANÍEL L. Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Monitor for status epilepticus seizures p 218 N94-30460 JOHNSON, MARK A. Synaptogenesis, selective stabilization, and free association [AD-A275250] p 215 N94-29431 JORNA, P. G. A. M.
Behavior and visual control of cyprinodents under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 ENDECOTT, BOYD R. Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carbonytemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 HOLDER, D. W., JR. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] HONG, W. S. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323	JOHNSON, DANÍEL L. Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Monitor for status epilepticus seizures p 218 N94-30460 JOHNSON, MARK A. Synaptogenesis, selective stabilization, and free association [AD-A275250] p 215 N94-29431 JORNA, P. G. A. M. Spectral analysis of heart rate and psychological state: A review of its validity as a workload index
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 ENDECOTT, BOYD R. Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxytemoglobin, and blood cyanide parameters	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 HOLDER, D. W., JR. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 HONG, W. S. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 HORIGOME, SHINICHI	JOHNSON, DANÍEL L. Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Monitor for status epilepticus seizures p 218 N94-30460 JOHNSON, MARK A. Synaptogenesis, selective stabilization, and free association [AD-A275250] p 215 N94-29431 JORNA, P. G. A. M. Spectral analysis of heart rate and psychological state: A review of its validity as a workload index [AD-8178387] p 221 N94-30969
Behavior and visual control of cyprinodents under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 ENDECOTT, BOYD R. Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 HOLDER, D. W., JR. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] HONG, W. S. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323	JOHNSON, DANÍEL L. Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Monitor for status epilepticus seizures p 218 N94-30460 JOHNSON, MARK A. Synaptogenesis, selective stabilization, and free association [AD-A275250] p 215 N94-29431 JORNA, P. G. A. M. Spectral analysis of heart rate and psychological state: A review of its validity as a workload index [AD-B179387] p 221 N94-30969 JUDAY, RICHARD D.
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 ENDECOTT, BOYD R. Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carbonyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 FEIGHAN, P. Aspects of the operator interface for military robotic	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 HOLDER, D. W., JR. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] P 226 N94-31380 HONG, W. S. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] P 219 N94-31323 HORIGOME, SHINICHI Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 HUEY, K. A.	JOHNSON, DANÍEL L. Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Monitor for status epilepticus seizures p 218 N94-30460 JOHNSON, MARK A. Synaptogenesis, selective stabilization, and free association [AD-A275250] p 215 N94-29431 JORNA, P. G. A. M. Spectral analysis of heart rate and psychological state: A review of its validity as a workload index [AD-8178387] p 221 N94-30969
Behavior and visual control of cyprinodents under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 ENDECOTT, BOYD R. Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 FEIGHAN, P. Aspects of the operator interface for military robotic applications in unstructured environments	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight HOLDER, D. W., JR. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] P 226 N94-31380 HONG, W. S. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] HORIGOME, SHINICHI Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 HUEY, K. A. Comparison of two cool vests on heat-strain reduction	JOHNSON, DANÍEL L. Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Monitor for status epilepticus seizures p 218 N94-30460 JOHNSON, MARK A. Synaptogenesis, selective stabilization, and free association [AD-A275250] p 215 N94-29431 JORNA, P. G. A. M. Spectral analysis of heart rate and psychological state: A review of its validity as a workload index [AD-B178387] p 221 N94-30969 JUDAY, RICHARD D. Dual use of image based tracking techniques: Laser eye
Behavior and visual control of cyprinodents under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 ENDECOTT, BOYD R. Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 FEIGHAN, P. Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 HOLDER, D. W., JR. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 HONG, W. S. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Cerlo simulations [DE94-007042] p 219 N94-31323 HORIGOME, SHINICHI Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 HUEY, K. A. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid	JOHNSON, DANÍEL L. Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Monitor for status epilepticus seizures p 218 N94-30460 JOHNSON, MARK A. Synaptogenesis, selective stabilization, and free association [AD-A275250] p 215 N94-29431 JORNA, P. G. A. M. Spectral analysis of heart rate and psychological state: A review of its validity as a workload index [AD-B179387] p 221 N94-30969 JUDAY, RICHARD D. Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 ENDECOTT, BOYD R. Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 FEIGHAN, P. Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 FRANKS, G. D.	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 HOLDER, D. W., JR. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 HONG, W. S. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 HORIGOME, SHINICHI Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 HUEY, K. A. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment	JOHNSON, DANÍEL L Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Monitor for status epilepticus seizures p 218 N94-30460 JOHNSON, MARK A. Synaptogenesis, selective stabilization, and free association [AD-A275250] p 215 N94-29431 JORNA, P. G. A. M. Spectral analysis of heart rate and psychological state: A review of its validity as a workload index [AD-B178387] p 221 N94-30969 JUDAY, RICHARD D. Dual use of image based tracking techniques: Laser eye
Behavior and visual control of cyprinodents under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 ENDECOTT, BOYD R. Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 FEIGHAN, P. Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 HOLDER, D. W., JR. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 HONG, W. S. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 HORIGOME, SHINICHI Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 HUEY, K. A. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p 222 N94-26902	JOHNSON, DANÍEL L. Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Monitor for status epilepticus seizures p 218 N94-30460 JOHNSON, MARK A. Synaptogenesis, selective stabilization, and free association [AD-A275250] p 215 N94-29431 JORNA, P. G. A. M. Spectral analysis of heart rate and psychological state: A review of its validity as a workload index [AD-B179387] p 221 N94-30969 JUDAY, RICHARD D. Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 ENDECOTT, BOYD R. Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 FEIGHAN, P. Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 FRANKS, G. D. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 HOLDER, D. W., JR. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 HONG, W. S. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 HORIGOME, SHINICHI Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 HUEY, K. A. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p 222 N94-28902 HUNTER, IAIN Use of snakes to link edge points to create left ventricular	JOHNSON, DANÍEL L. Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Monitor for status epilepticus seizures p 218 N94-30460 JOHNSON, MARK A. Synaptogenesis, selective stabilization, and free association [AD-A275250] p 215 N94-29431 JORNA, P. G. A. M. Spectral analysis of heart rate and psychological state: A review of its validity as a workload index [AD-B179387] p 221 N94-30969 JUDAY, RICHARD D. Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 K KAKIMOTO, YUKIKO Japanese Journal of Aerospace and Environmental
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 ENDECOTT, BOYD R. Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carbonyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 FEIGHAN, P. Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 FRANKS, G. D. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 FRIM, JOHN	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 HOLDER, D. W., JR. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] P 226 N94-31380 HONG, W. S. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] P 219 N94-31323 HORIGOME, SHINICHI Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 HUEY, K. A. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p 222 N94-28902 HUNTER, IAIN Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images	JOHNSON, DANÍEL L. Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Moritor for status epilepticus seizures p 218 N94-30460 JOHNSON, MARK A. Synaptogenesis, selective stabilization, and free association [AD-A275250] p 215 N94-29431 JORNA, P. G. A. M. Spectral analysis of heart rate and psychological state: A review of its validity as a workload index [AD-8178387] p 221 N94-30969 JUDAY, RICHARD D. Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 K KAKIMOTO, YUKIKO Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 ENDECOTT, BOYD R. Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carbonytemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 FEIGHAN, P. Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 FRANKS, G. D. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 FRIM, JOHN Insulative properties of two thermo-metal neoprenes	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 HOLDER, D. W., JR. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 HONG, W. S. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 HORIGOME, SHINICHI Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 HUEY, K. A. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p 222 N94-28902 HUNTER, IAIN Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-83-D-016] p 218 N94-30970 HUTCHENS, C. F.	JOHNSON, DANÍEL L. Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Monitor for status epilepticus seizures p 218 N94-30460 JOHNSON, MARK A. Synaptogenesis, selective stabilization, and free association [AD-A275250] p 215 N94-29431 JORNA, P. G. A. M. Spectral analysis of heart rate and psychological state: A review of its validity as a workload index [AD-B179387] p 221 N94-30969 JUDAY, RICHARD D. Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 K KAKIMOTO, YUKIKO Japanese Journal of Aerospace and Environmental
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 ENDECOTT, BOYD R. Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carbonyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 FEIGHAN, P. Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 FRANKS, G. D. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 FRIM, JOHN	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 HOLDER, D. W., JR. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 HONG, W. S. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 HORIGOME, SHINICHI Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 HUEY, K. A. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p 222 N94-28902 HUNTER, IAIN Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-83-D-016] p 218 N94-30970 HUTCHENS, C. F. Technical assessment of Mir-1 life support hardware for	JOHNSON, DANÍEL L. Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Monitor for status epilepticus seizures p 218 N94-30460 JOHNSON, MARK A. Synaptogenesis, selective stabilization, and free association [AD-A275250] p 215 N94-29431 JORNA, P. G. A. M. Spectral analysis of heart rate and psychological state: A review of its validity as a workload index [AD-B179387] p 221 N94-30969 JUDAY, RICHARD D. Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 K KAKIMOTO, YUKIKO Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 2
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 ENDECOTT, BOYD R. Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 FEIGHAN, P. Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 FRANKS, G. D. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 FRIM, JOHN Insulative properties of two thermo-metal neoprenes [AD-A275209] p 223 N94-29302	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight HOLDER, D. W., JR. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] P 226 N94-31380 HONG, W. S. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] HORIGOME, SHINICHI Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 HUEY, K. A. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p 222 N94-28902 HUNTER, IAIN Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 HUTCHENS, C. F. Technical assessment of Mir-1 life support hardware for the international space station	JOHNSON, DANIEL L Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Moritor for status epilepticus seizures p 218 N94-30460 JOHNSON, MARK A. Synaptogenesis, selective stabilization, and free association [AD-A275250] p 215 N94-29431 JORNA, P. G. A. M. Spectral enalysis of heart rate and psychological state: A review of its validity as a workload index [AD-B179387] p 221 N94-30969 JUDAY, RICHARD D. Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 K KAKIMOTO, YUKIKO Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 2 [JTN-94-80599] p 215 N94-29863
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 ENDECOTT, BOYD R. Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carbonytemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 FEIGHAN, P. Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 FRANKS, G. D. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 FRIM, JOHN Insulative properties of two thermo-metal neoprenes	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 HOLDER, D. W., JR. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 HONG, W. S. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 HORIGOME, SHINICHI Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 HUEY, K. A. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p 222 N94-28902 HUNTER, IAIN Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-83-D-016] p 218 N94-30970 HUTCHENS, C. F. Technical assessment of Mir-1 life support hardware for	JOHNSON, DANIEL L Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Monitor for status epilepticus seizures p 218 N94-30460 JOHNSON, MARK A. Synaptogenesis, selective stabilization, and free association [AD-A275250] p 215 N94-29431 JORNA, P. G. A. M. Spectral analysis of heart rate and psychological state: A review of its validity as a workload index [AD-B179387] p 221 N94-30969 JUDAY, RICHARD D. Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 K KAKIMOTO, YUKIKO Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Japanese Journal of Aerospace and Environmental Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-29863 KAMEYAMA, YUCHI
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 ENDECOTT, BOYD R. Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 FEIGHAN, P. Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 FRANKS, G. D. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 FRIM, JOHN Insulative properties of two thermo-metal neoprenes [AD-A275209] p 223 N94-29302	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight HOLDER, D. W., JR. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] P 226 N94-31380 HONG, W. S. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] HORIGOME, SHINICHI Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 HUEY, K. A. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p 222 N94-28902 HUNTER, IAIN Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 HUTCHENS, C. F. Technical assessment of Mir-1 life support hardware for the international space station	JOHNSON, DANIEL L Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Moritor for status epilepticus seizures p 218 N94-30460 JOHNSON, MARK A. Synaptogenesis, selective stabilization, and free association [AD-A275250] p 215 N94-29431 JORNA, P. G. A. M. Spectral enalysis of heart rate and psychological state: A review of its validity as a workload index [AD-B179387] p 221 N94-30969 JUDAY, RICHARD D. Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 K KAKIMOTO, YUKIKO Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 2 [JTN-94-80599] p 215 N94-29863
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 ENDECOTT, BOYD R. Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 FEIGHAN, P. Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 FRANKS, G. D. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 FRIM, JOHN Insulative properties of two thermo-metal neoprenes [AD-A275209] p 223 N94-29302	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight HOLDER, D. W., JR. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] P 226 N94-31380 HONG, W. S. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] HORIGOME, SHINICHI Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 HUEY, K. A. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p 222 N94-28902 HUNTER, IAIN Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 HUTCHENS, C. F. Technical assessment of Mir-1 life support hardware for the international space station	JOHNSON, DANIEL L Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Monitor for status epilepticus seizures p 218 N94-30460 JOHNSON, MARK A. Synaptogenesis, selective stabilization, and free association [AD-A275250] p 215 N94-29431 JORNA, P. G. A. M. Spectral analysis of heart rate and psychological state: A review of its validity as a workload index [AD-B179387] p 221 N94-30969 JUDAY, RICHARD D. Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 K KAKIMOTO, YUKIKO Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Japanese Journal of Aerospace and Environmental Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-29863 KAMEYAMA, YUICHI Effect of chronic centrifugation on in vitro fertilization
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 ENDECOTT, BOYD R. Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 FEIGHAN, P. Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 FRANKS, G. D. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 FRIM, JOHN Insulative properties of two thermo-metal neoprenes [AD-A275209] p 223 N94-29302 G GARCIA, DISHAYNE Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight HOLDER, D. W., JR. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 HONG, W. S. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 HORIGOME, SHINICHI Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 HUEY, K. A. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p 222 N94-28902 HUNTER, IAIN Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-018] p 218 N94-30970 HUTCHENS, C. F. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380	JOHNSON, DANIEL L. Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Monitor for status epilepticus seizures p 218 N94-30460 JOHNSON, MARK A. Synaptogenesis, selective stabilization, and free association [AD-A275250] p 215 N94-29431 JORNA, P. G. A. M. Spectral analysis of heart rate and psychological state: A review of its validity as a workload index [AD-B179387] p 221 N94-30969 JUDAY, RICHARD D. Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 KAKIMOTO, YUKIKO Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Japanese Journal of Aerospace and Environmental Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-29863 KAMEYAMA, YUICHI Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 KANSAKU, HIROSHI Japanese Journal of Aerospace and Environmental
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 ENDECOTT, BOYD R. Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carbonyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 FEIGHAN, P. Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 FRANKS, G. D. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 FRIM, JOHN Insulative properties of two thermo-metal neoprenes [AD-A275209] p 223 N94-29302 G GARCIA, DISHAYNE Tactitity as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 HOLDER, D. W., JR. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 HONG, W. S. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 HORIGOME, SHINICHI Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 HUEY, K. A. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p 222 N94-28902 HUNTER, IAIN Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 HUTCHENS, C. F. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 LIRI, KENICHI Behavior and visual control of cyprinodonts under	JOHNSON, DANIEL L. Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Moritor for status epilepticus seizures p 218 N94-30460 JOHNSON, MARK A. Synaptogenesis, selective stabilization, and free association [AD-A275250] p 215 N94-29431 JORNA, P. G. A. M. Spectral analysis of heart rate and psychological state: A review of its validity as a workload index [AD-8178387] p 221 N94-30969 JUDAY, RICHARD D. Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 KAKIMOTO, YUKIKO Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Japanese Journal of Aerospace and Environmental Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-29863 KAMEYAMA, YUICHI Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 KANSAKU, HIROSHI Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 ENDECOTT, BOYD R. Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carbonyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 FEIGHAN, P. Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 FRANKS, G. D. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 FRIM, JOHN Insulative properties of two thermo-metal neoprenes [AD-A275209] p 223 N94-29302 G GARCIA, DISHAYNE Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] gIBREKHTERMAN, A.	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 HOLDER, D. W., JR. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 HONG, W. S. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] HORIGOME, SHINICHI Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 HUEY, K. A. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p 222 N94-28902 HUNTER, IAIN Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 HUTCHENS, C. F. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 LIRI, KENICHI Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713	JOHNSON, DANIEL L Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Monitor for status epilepticus seizures p 218 N94-30460 JOHNSON, MARK A. Synaptogenesis, selective stabilization, and free association [AD-A275250] p 215 N94-29431 JORNA, P. G. A. M. Spectral enalysis of heart rate and psychological state: A review of its validity as a workload index [AD-B179387] p 221 N94-30969 JUDAY, RICHARD D. Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 K KAKIMOTO, YUKIKO Japanese Journal of Aerospace and Environmental Medicine, vol.um 30, no. 1 [JTN-94-80598] p 212 N94-28850 Medicine, vol.um 30, no. 2 [JTN-94-80599] p 215 N94-29863 KAMEYAMA, YUICHI Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 KANSAKU, HIROSHI Japanese Journal of Aerospace and Environmental Medicine, vol.um 30, no. 1 [JTN-94-80598] p 212 N94-28853
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 ENDECOTT, BOYD R. Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carbonyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 FEIGHAN, P. Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 FRANKS, G. D. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 FRIM, JOHN Insulative properties of two thermo-metal neoprenes [AD-A275209] p 223 N94-29302 G GARCIA, DISHAYNE Tactitity as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 HOLDER, D. W., JR. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 HONG, W. S. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 HORIGOME, SHINICHI Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 HUEY, K. A. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p 222 N94-28902 HUNTER, IAIN Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 HUTCHENS, C. F. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 LIRI, KENICHI Behavior and visual control of cyprinodonts under	JOHNSON, DANIEL L. Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Moritor for status epilepticus seizures p 218 N94-30460 JOHNSON, MARK A. Synaptogenesis, selective stabilization, and free association [AD-A275250] p 215 N94-29431 JORNA, P. G. A. M. Spectral analysis of heart rate and psychological state: A review of its validity as a workload index [AD-8178387] p 221 N94-30969 JUDAY, RICHARD D. Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 KAKIMOTO, YUKIKO Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Japanese Journal of Aerospace and Environmental Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-29863 KAMEYAMA, YUICHI Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 KANSAKU, HIROSHI Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 ENDECOTT, BOYD R. Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carbonyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 FEIGHAN, P. Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 FRANKS, G. D. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 FRIM, JOHN Insulative properties of two thermo-metal neoprenes [AD-A275209] p 223 N94-29302 G GARCIA, DISHAYNE Tactitity as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 GIBREKHTERMAN, A. Characteristics of secondary electron emission from Cal induced by x rays with energies up to 100 keV [DE94-608422] p 217 N94-30185	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 HOLDER, D. W., JR. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 HONG, W. S. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 HORIGOME, SHINICHI Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 HUEY, K. A. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p 222 N94-28902 HUNTER, IAIN Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-83-D-016] p 218 N94-30970 HUTCHENS, C. F. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 LIRI, KENICHI Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 IKAWA, SACHIO Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1	JOHNSON, DANIEL L Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Monitor for status epilepticus seizures p 218 N94-30460 JOHNSON, MARK A. Synaptogenesis, selective stabilization, and free association [AD-A275250] p 215 N94-29431 JORNA, P. G. A. M. Spectral enalysis of heart rate and psychological state: A review of its validity as a workload index [AD-B179387] p 221 N94-30969 JUDAY, RICHARD D. Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 K KAKIMOTO, YUKIKO Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Japanese Journal of Aerospace and Environmental Medicine, vol 30, no. 2 [JTN-94-80599] p 215 N94-29863 KANSAKU, HIROSHI Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 2 [JTN-94-80599] p 215 N94-29863
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 ENDECOTT, BOYD R. Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 FEIGHAN, P. Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 FRANKS, G. D. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 FRIM, JOHN Insulative properties of two thermo-metal neoprenes [AD-A275209] p 223 N94-28302 G GARCIA, DISHAYNE Tactility as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 GIBREKHTERMAN, A. Characteristics of secondary electron emission from Calinduced by x rays with energies up to 100 keV [DE94-608422] granter.	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight HOLDER, D. W., JR. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 HONG, W. S. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] HORIGOME, SHINICHI Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 HUEY, K. A. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p 222 N94-26902 HUNTER, IAIN Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970 HUTCHENS, C. F. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] De18 N94-29713 LJIRI, KENICHI Behavior and visual control of cyprimodonts under microgravity IKAWA, SACHIO Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-2850	JOHNSON, DANIEL L Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Monitor for status epilepticus seizures p 218 N94-30460 JOHNSON, MARK A. Synaptogenesis, selective stabilization, and free association [AD-A275250] p 215 N94-29431 JORNA, P. G. A. M. Spectral analysis of heart rate and psychological state: A review of its validity as a workload index [AD-B179387] p 221 N94-30969 JUDAY, RICHARD D. Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 K KAKIMOTO, YUKIKO Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 2 [JTN-94-80599] p 215 N94-28853 KANSAKU, HIROSHI Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 2 [JTN-94-80598] p 215 N94-29863 KAPLAN, S. N.
Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 ELLIS, S. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training [NASA-TM-4580] p 208 N94-29401 ENDECOTT, BOYD R. Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carbonyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919 FEIGHAN, P. Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304 FRANKS, G. D. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 FRIM, JOHN Insulative properties of two thermo-metal neoprenes [AD-A275209] p 223 N94-29302 G GARCIA, DISHAYNE Tactitity as a function of grasp force: Effects of glove, orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 GIBREKHTERMAN, A. Characteristics of secondary electron emission from Cal induced by x rays with energies up to 100 keV [DE94-608422] p 217 N94-30185	HIRATA, KOZO Effects of make-up on the heat transfer from the head in hyperthermic conditions p 216 N94-29864 HIRATA, YUTAKA Analysis of various biological activity parameters during parabolic flight p 221 N94-29716 HOLDER, D. W., JR. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 HONG, W. S. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 HORIGOME, SHINICHI Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 HUEY, K. A. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p 222 N94-28902 HUNTER, IAIN Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-83-D-016] p 218 N94-30970 HUTCHENS, C. F. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 LIRI, KENICHI Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 IKAWA, SACHIO Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1	JOHNSON, DANIEL L Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 JOHNSON, MARK Monitor for status epilepticus seizures p 218 N94-30460 JOHNSON, MARK A. Synaptogenesis, selective stabilization, and free association [AD-A275250] p 215 N94-29431 JORNA, P. G. A. M. Spectral enalysis of heart rate and psychological state: A review of its validity as a workload index [AD-B179387] p 221 N94-30969 JUDAY, RICHARD D. Dual use of image based tracking techniques: Laser eye surgery and low vision prosthesis p 217 N94-30455 K KAKIMOTO, YUKIKO Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Japanese Journal of Aerospace and Environmental Medicine, vol 30, no. 2 [JTN-94-80599] p 215 N94-29863 KANSAKU, HIROSHI Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 2 [JTN-94-80599] p 215 N94-29863

KATO, TAKAKUNI Disturbance of equilibrium on JAL flight crew p 213 N94-28856	MAITRE, HENRI Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images	MIZUMOTO, KIYOSHI Psychophysiological study on the effects of co-existence of lines for detecting dot target p 221 N94-29867
KLEIN, GARY	[TELECOM-93-D-016] p 218 N94-30970	MORRISON, DENNIS R.
Designing for performance: A cognitive systems	MANO, TADAAKI	Microencapsulation of anti-tumor, antibiotic and
engineering approach to modifying an AWACS human	Japanese Journal of Aerospace and Environmental	thrombolytic drugs in microgravity p 217 N94-30453
computer interface	Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850	MOSIER, BENJAMIN
[AD-A275187] p 222 N94-28861	Japanese Journal of Aerospace and Environmental	Microencapsulation of anti-tumor, antibiotic and thrombolytic drugs in microgravity p 217 N94-30453
KLINGER, DAVID W. Designing for performance: A cognitive systems	Medicine, vol. 30, no. 2	MURAKAMI, AKIRA
engineering approach to modifying an AWACS human	[JTN-94-80599] p 215 N94-29863	Space movement of Trichinella spiralis under
computer interface	Effect of water immersion on muscle sympathetic nerve	microgravity p 209 N94-29711
[AD-A275187] p 222 N94-28861	response during static muscle contraction p 216 N94-29865	
KLUTE, GLENN	MANO, TAKAICHI	N
Tactility as a function of grasp force: Effects of glove,	Arterial oxygen saturation during +Gz acceleration by	**
orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210	short-radius centrifuge p 212 N94-28852	NAGAOKA. SHUNJI
KNAFELC, M. E.	Effect of chronic centrifugation on in vitro fertilization	Behavior and visual control of cyprinodonts under
Advanced seal delivery system life support parameters	and early development in mice ova p 207 N94-28853	microgravity p 210 N94-29713
[AD-A275304] p 223 N94-29184	MARKO, MICHAEL Seed viability detection using computerized false-color	Hemodynamic measurement during parabolic flight
KOGA, KAZUO	radiographic image enhancement p 211 N94-30461	p 215 N94-29717
A discussion of eye-head coordinative movement under	MARU, RURIKO	NAGASAKA, TETSUO
microgravity during parabolic flight p 220 N94-29715	Effect of chronic centrifugation on in vitro fertilization	Effects of make-up on the heat transfer from the head
Effect of water immersion on muscle sympathetic nerve	and early development in mice ova p 207 N94-28853	in hyperthermic conditions p 216 N94-29864
response during static muscle contraction p 216 N94-29865	MASUDA, MAKOTO	NAKATSUBO, TAKAYUKI
KRUZINAUSKAS, JOHN, JR.	Japanese Journal of Aerospace and Environmental	Japan-China collaboration research program on
Human pilot response during single- and multi-axis	Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850	terrestrial biology at Great Wall Station in King George Island, in the summer of 1990/1991
tracking tasks	Japanese Journal of Aerospace and Environmental	p 208 N94-29085
[AD-A275080] p 220 N94-28887	Medicine, vol. 30, no. 2	NISHIMURA, KOSUKE
KUROTANI, AKEMI	[JTN-94-80599] p 215 N94-29863	Image technology and information analysis of bone
Behavior and visual control of cyprinodonts under	MATSUHIRO, DENNIS	change with gravitational exposure p 212 N94-28851.
microgravity p 210 N94-29713	Portable Linear Sled (PLS) for biomedical research	NOON, G. P.
•	p 209 N94-29648	Development of the NASA/Baylor VAD
L	MATTSSON, J.	p 218 N94-30458
	Stable RNA sequences as a tool for DNA probes and phytogenetic studies	NORDSTROEM, K. M.
LAIEB, N.	[PB94-135423] p 208 N94-29156	Physiology and molecular-genetics of thermus and
Computer Assisted Medical Interventions: Application to Conformal Radiotherapy	MCLELLAN, TOM M.	bacillus [PB94-135571] p 208 N94-29190
[RR-912-I] p 216 N94-30028	Effects of endurance training on heat-exercise tolerance	NOSE, Y. p 208 N94-29180
Conformal external radiotherapy of prostatic carcinoma:	in men wearing NBC protective clothing	Development of the NASA/Baylor VAD
Requirements and preliminary results	[AD-A275176] p 214 N94-29049	p 218 N94-30458
p 217 N94-30029	MCNEELY, MARY	, , , , , , , , , , , , , , , , , , ,
LAU, WAI-MAN	Human pilot response during single- and multi-axis	^
Portable ventilatory resuscitation systems [AD-A274984] p 223 N94-29093	tracking tasks	0
LAVALLEE, S.	[AD-A275080] p 220 N94-28887 MEERTENS, LAMBERT G. L. T.	
Computer Assisted Medical Interventions: Application to	The ergonomics of computer interfaces: Designing a	OGLE, K. Y. Technical assessment of Mir-1 life support hardware for
Conformal Radiotherapy	system for human use	the international space station
[RR-912-I] p 216 N94-30028	[CWI-CS-R9258] p 225 N94-30320	[NASA-TM-108441] p 226 N94-31380
LAVALLEE, STEPHANE	MENGUY, Y.	OKUBO, JIN
Pre- and intra-radiotherapy multimodal image	Computer Assisted Medical Interventions: Application to	Equilibrium dysfunction in the clinical field
registration: Principles and first experiments p 217 N94-30030	Conformal Radiotherapy	p 213 N94-28858
LAWSON, SETH W.	[RR-912-I] p 216 N94-30028	ORTENDAHL, D. A.
Composite redesign of obstetrical forceps	Conformal external radiotherapy of prostatic carcinoma:	Leg muscle volume during 30-day 6-degree head-down
p 218 N94-30457	Requirements and pretiminary results p 217 N94-30029	bed rest with isotonic and isokinetic exercise training
LEE, H.	MILITELLO, LAURA G.	[NASA-TM-4580] p 208 N94-29401
Hydrogenated amorphous silicon (a-Si:H) based gamma	Designing for performance: A cognitive systems	OSHIMA, MASAMITSU Japanese Journal of Aerospace and Environmental
camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323	engineering approach to modifying an AWACS human	Medicine, volume 30, no. 1
LEE. P. L.	computer interface	[JTN-94-80598] p 212 N94-28850
Leg muscle volume during 30-day 6-degree head-down	[AD-A275187] p 222 N94-28861	Japanese Journal of Aerospace and Environmental
bed rest with isotonic and isokinetic exercise training	MINODA, TAKASHI	Medicine, vol. 30, no. 2
[NASA-TM-4580] p 208 N94-29401	Copepods collected along 33.5 deg E longitude of the	[JTN-94-80599] p 215 N94-29863
LEERMAKERS, M. A. M.	Antarctic Ocean in the 1976 summer p 207 N94-29082	OTANI, SHUJI
Sampling behaviour in a four instrument monitoring task: Effects of signal bandwidth and number of events per	MINOWA, TOMOAKI	Japan-China collaboration research program on terrestrial biology at Great Wall Station in King George
signal	Growth of hydrocarbon-rich microalga Botryococcus	island, in the summer of 1990/1991
[AD-B179613] p 225 N94-30422	braunii in secondarily treated sewage and its consumption	p 208 N94-29085
LEWIS, RICHARD L.	of nitrate ion and phosphate ion p 209 N94-29519	¥ ===
An architecturally-based theory of human sentence		
comprehension	MINSON, C.	Þ
[AD-A275380] p 220 N94-29313 LIBBY, J. M.	MINSON, C. Comperison of two cool vests on heat-strain reduction	P
Microtabricated silicon biosensors for	MINSON, C. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid	•
	MINSON, C. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment	PARCE, J. W. Microfabricated silicon biosensors for
microphysiometry p 210 N94-29783	MINSON, C. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p 222 N94-28902	PARCE, J. W. Microfabricated silicon biosensors for microphysiometry p 210 N94-29783
microphysiometry p 210 N94-29783 LIEBERMAN, HARRIS B.	MINSON, C. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment	PARCE, J. W. Microfabricated silicon biosensors for microphysiometry p 210 N94-29783 PEMBERTON, STEVEN
microphysiometry p 210 N94-29783 LIEBERMAN, HARRIS B. Strategies to sustain and enhance performance in	MINSON, C. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p 222 N94-28902 MIRESHGHI, A.	PARCE, J. W. Microfabricated silicon biosensors for microphysiometry p 210 N94-29783 PEMBERTON, STEVEN The ergonomics of computer interfaces: Designing a
microphysiometry p 210 N94-29783 LIEBERMAN, HARRIS B, Strategies to sustain and enhance performance in stressful environments	MINSON, C. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p 222 N94-28902 MIRESHGHI, A. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323	PARCE, J. W. Microfabricated silicon biosensors for microphysiometry p 210 N94-29783 PEMBERTON, STEVEN The ergonomics of computer interfaces: Designing a system for human use
microphysiometry p 210 N94-29783 LIEBERMAN, HARRIS B. Strategies to sustain and enhance performance in stressful environments [AD-A275223] p 220 N94-29027	MINSON, C. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p 222 N94-28902 MIRESHGHI, A. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 MITCHELL, K. L.	PARCE, J. W. Microfabricated silicon biosensors for microphysiometry p 210 N94-29783 PEMBERTON, STEVEN The ergonomics of computer interfaces: Designing a system for human use [CWI-CS-R9258] p 225 N94-30320
microphysiometry p 210 N94-29783 LIEBERMAN, HARRIS B. Strategies to sustain and enhance performance in stressful environments [AD-A275223] p 220 N94-29027 LYNCH, MARRY J.	MINSON, C. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p. 222 N94-28902 MIRESHGHI, A. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p. 219 N94-31323 MITCHELL, K. L. Technical assessment of Mir-1 life support hardware for	PARCE, J. W. Microfabricated silicon biosensors for microphysiometry p 210 N94-29783 PEMBERTON, STEVEN The ergonomics of computer interfaces: Designing a system for human use
microphysiometry p 210 N94-29783 LIEBERMAN, HARRIS B, Strategies to sustain and enhance performance in stressful environments [AD-A275223] p 220 N94-29027 LYNCH, HARRY J. Strategies to sustain and enhance performance in	MINSON, C. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p. 222 N94-28902 MIRESHGHI, A. Hydrogenated amorphous silicon (e-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p. 219 N94-31323 MITCHELL, K. L. Technical assessment of Mir-1 life support hardware for the international space station	PARCE, J. W. Microfabricated silicon biosensors for microphysiometry p 210 N94-29783 PEMBERTON, STEVEN The ergonomics of computer interfaces: Designing a system for human use [CWI-CS-R9258] p 225 N94-30320 PEREZ-MENDEZ, V.
microphysiometry p 210 N94-29783 LIEBERMAN, HARRIS B. Strategies to sustain and enhance performance in stressful environments [AD-A275223] p 220 N94-29027 LYNCH, MARRY J.	MINSON, C. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p 222 N94-28902 MIRESHGHI, A. Hydrogenated amorphous silicon (e-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 MITCHELL, K. L. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380	PARCE, J. W. Microfabricated silicon biosensors for microphysiometry p 210 N94-29783 PEMBERTON, STEVEN The ergonomics of computer interfaces: Designing a system for human use [CWI-CS-R9258] p 225 N94-30320 PEREZ-MENDEZ, V. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323
microphysiometry p 210 N94-29783 LIEBERMAN, HARRIS B, Strategies to sustain and enhance performance in stressful environments [AD-A275223] p 220 N94-29027 LYNCH, MARRY J. Strategies to sustain and enhance performance in stressful environments	MINSON, C. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p 222 N94-28902 MIRESHGHI, A. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 MITCHELL, K. L. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 MIWA, CHIHIRO	PARCE, J. W. Microfabricated silicon biosensors for microphysiometry p 210 N94-29783 PEMBERTON, STEVEN The ergonomics of computer interfaces: Designing a system for human use [CWI-CS-R9258] p 225 N94-30320 PEREZ-MENDEZ, V. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] PEREZ, RICHARDO, III
microphysiometry p 210 N94-29783 LIEBERMAN, HARRIS B. Strategies to sustain and enhance performance in stressful environments [AD-A275223] p 220 N94-29027 LYNCH, HARRY J. Strategies to sustain and enhance performance in stressful environments [AD-A275223] p 220 N94-29027	MINSON, C. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p 222 N94-28902 MIRESHGHI, A. Hydrogenated amorphous silicon (e-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 MITCHELL, K. L. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380	PARCE, J. W. Microfabricated silicon p 210 N94-29783 PEMBERTON, STEVEN The ergonomics of computer interfaces: Designing a system for human use [CWI-CS-R9258] p 225 N94-30320 PEREZ-MENDEZ, V. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 PEREZ, RICHARDO, III Procedures and metrics for anti-G suit evaluations
microphysiometry p 210 N94-29783 LIEBERMAN, HARRIS B, Strategies to sustain and enhance performance in stressful environments [AD-A275223] p 220 N94-29027 LYNCH, MARRY J. Strategies to sustain and enhance performance in stressful environments	MINSON, C. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p. 222 N94-28902 MIRESHGHI, A. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p. 219 N94-31323 MITCHELL, K. L. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p. 226 N94-31380 MIWA, CHIHIRO Effect of water immersion on muscle sympathetic nerve	PARCE, J. W. Microfabricated silicon biosensors for microphysiometry p 210 N94-29783 PEMBERTON, STEVEN The ergonomics of computer interfaces: Designing a system for human use [CWI-CS-R9258] p 225 N94-30320 PEREZ-MENDEZ, V. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 PEREZ, RICHARDO, III Procedures and metrics for anti-G suit evaluations [AD-A275349] p 223 N94-28997
microphysiometry p 210 N94-29783 LIEBERMAN, HARRIS B. Strategies to sustain and enhance performance in stressful environments [AD-A275223] p 220 N94-29027 LYNCH, HARRY J. Strategies to sustain and enhance performance in stressful environments [AD-A275223] p 220 N94-29027	MINSON, C. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p 222 N94-28902 MIRESHGHI, A. Hydrogenated amorphous silicon (e-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 MITCHELL, K. L. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 MIWA, CHINIRO Effect of water immersion on muscle sympathetic nerve response during static muscle contraction	PARCE, J. W. Microfabricated silicon p 210 N94-29783 PEMBERTON, STEVEN The ergonomics of computer interfaces: Designing a system for human use [CWI-CS-R9258] p 225 N94-30320 PEREZ-MENDEZ, V. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 PEREZ, RICHARDO, III Procedures and metrics for anti-G suit evaluations
microphysiometry p 210 N94-29783 LIEBERMAN HARRIS B. Strategies to sustain and enhance performance in stressful environments [AD-A275223] p 220 N94-29027 LYNCH, HARRY J. Strategies to sustain and enhance performance in stressful environments [AD-A275223] p 220 N94-29027 M MAEDA, TAKASHI Effect of chronic centrifugation on in vitro fertilization	MINSON, C. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p. 222 N94-28902 MIRESHOHI, A. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p. 219 N94-31323 MITCHELL, K. L. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p. 226 N94-31380 MIWA, CHIHIRO Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p. 216 N94-29865 MIYAMOTO, AKIRA Hemodynamic measurement during parabolic flight	PARCE, J. W. Microtabricated silicon biosensors for microphysiometry p 210 N94-29783 PEMBERTON, STEVEN The ergonomics of computer interfaces: Designing a system for human use [CWI-CS-R9258] p 225 N94-30320 PEREZ-MENDEZ, V. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 PEREZ, RICHARDO, III Procedures and metrics for anti-G suit evaluations [AD-A275349] p 223 N94-28997 PERRY, J. L. Technical assessment of Mir-1 life support hardware for the international space station
microphysiometry p 210 N94-29783 LIEBERMAN, HARRIS B, Strategies to sustain and enhance performance in stressful environments [AD-A275223] p 220 N94-29027 LYNCH, HARRY J. Strategies to sustain and enhance performance in stressful environments [AD-A275223] p 220 N94-29027 M MAEDA, TAKASHI Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853	MINSON, C. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p 222 N94-28902 MIRESHGHI, A. Hydrogenated amorphous silicon (e-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 MITCHELL, K. L. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380 MIWA, CHIRIRO Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p 216 N94-29865 MIYAMOTO, AKIRA Hemodynamic measurement during parabolic flight p 215 N94-29717	PARCE, J. W. Microfabricated silicon biosensors for microphysiometry p 210 N94-29763 PEMBERTON, STEVEN The ergonomics of computer interfaces: Designing a system for human use [CWI-CS-R9258] p 225 N94-30320 PEREZ-MENDEZ, V. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Cerlo simulations [DE94-007042] p 219 N94-31323 PEREZ, RICHARDO, III Procedures and metrics for anti-G suit evaluations [AD-A275349] p 223 N94-28997 PERRY, J. L. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p 226 N94-31380
microphysiometry p 210 N94-29783 LIEBERMAN HARRIS B. Strategies to sustain and enhance performance in stressful environments [AD-A275223] p 220 N94-29027 LYNCH, HARRY J. Strategies to sustain and enhance performance in stressful environments [AD-A275223] p 220 N94-29027 M MAEDA, TAKASHI Effect of chronic centrifugation on in vitro fertilization	MINSON, C. Comparison of two cool vests on heat-strain reduction while wearing a firefighting ensemble in a hot/humid environment [AD-A275103] p. 222 N94-28902 MIRESHOHI, A. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p. 219 N94-31323 MITCHELL, K. L. Technical assessment of Mir-1 life support hardware for the international space station [NASA-TM-108441] p. 226 N94-31380 MIWA, CHIHIRO Effect of water immersion on muscle sympathetic nerve response during static muscle contraction p. 216 N94-29865 MIYAMOTO, AKIRA Hemodynamic measurement during parabolic flight	PARCE, J. W. Microfabricated silicon p 210 N94-29783 PEMBERTON, STEVEN The ergonomics of computer interfaces: Designing a system for human use [CWI-CS-R9258] p 225 N94-30320 PEREZ-MENDEZ, V. Hydrogenated amorphous silicon (a-Si:H) based gamma camera: Monte Carlo simulations [DE94-007042] p 219 N94-31323 PEREZ, RICHARDO, III Procedures and metrics for anti-G suit evaluations [AD-A275349] p 223 N94-28997 PERRY, J. L Technical assessment of Mir-1 life support hardware for the international space station

p 209 N94-29711

p 212 N94-28854

p 207 N94-29082

Space movement of Trichinella spiralis under microgravity p 209 N94-29711

Effect of food intake on skin vasomotor responses to

Copepods collected along 33.5 deg E longitude of the Antarctic Ocean in the 1976 summer

TAKAHASHI, KEIICHI

head-up tilt in humans

TANIMURA, ATSUSHI

TANABE, MINORU

Non-intrusive gaze tracking using artificial neural

Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122

p 219 N94-28860

POMERLEAU, DEAN

networks [AD-A27\$186] POWERS, JANET V.

PÒZOS, R. S.

	ooling systems in the	Situational awareness: A feasib	ility investigation of	TEMPLE, JOHN	2908
chemical, biological, radiological [AD-A276446]	environment p 226 N94-31302	near-threshold skills development	- 221 NO4 21242	Portable Linear Sled (PLS) for biomedical research	ch
[AD-A270446]	p 220 1154-31502	[AD-A276467] SELF, HERSCHEL C.	p 221 N94-31243	p 209 N94-	
R		Stress and ergonomic design	and evaluation of	TROCCAZ, J.	4: 4
•		person-machine systems		Computer Assisted Medical Interventions: Applicat Conformal Radiotherapy	JON 10
RAJULU, SUDHAKAR		[AD-A275156]	p 223 N94-29034	[RR-912-I] p 216 N94-3	30028
Tactility as a function of grass		SELZER, R. H. Leg muscle volume during 30-day	. 6. domas head down	Conformal external radiotherapy of prostatic carcin	пота
orientation, pressure, load, and h	andle p 225 N94-30210	bed rest with isotonic and isokir	netic exercise training	Requirements and preliminary results p 217 N94-:	20020
[NASA-TP-3474] RASMUSSEN, P. G.	p 223 1494-30210	[NASA-TM-4580]	p 208 N94-29401	TROCCAZ, JOCELYNE	3002:
Scanning and monitoring perfe	ormance: Effects of the	SETLOW, PETER			image
reinforcement values of the even		Studies on bacterial spore ultravio		registration: Principles and first experiments	
[DOT/FAA/AM-94/8]	p 221 N94-29918	regulation of the activity of a spore [AD-A275448]	p 207 N94-28884	p 217 N94-3	30030
RAY, C. D. Technical assessment of Mir-1	life support hardware for	SHAFFSTAFF, ROBERT M.	p 20	TSURUTA, YOSHINARI Reproduction in the Japanese anchovy (Eng.	raulis
the international space station		Relaxed tolerance following HSG	, high sustained +Gz	japonica) as related to population fluctuation	
[NASA-TM-108441]	p 226 N94-31380	[AD-A275204]	p 213 N94-28892	p 209 N94-2	29708
REVZIN, A. M. Scanning and monitoring perfo	ormance: Effects of the	SHEPHARD, ROY J.	ant aversion telerana	TUOMI, T.	ion bu
reinforcement values of the even		Effects of endurance training on he in men wearing NBC protective clot		Plant-microbe interactions: Plant hormone producti phylloplane fungi	,011 Uy
[DOT/FAA/AM-94/8]	p 221 N94-29918	[AD-A275176]	p 214 N94-29049	[PB94-135563] p 208 N94-2	29189
RIPLEY, GRADY L.		SHERMAN, KENNETH E.			
Procedures and metrics for an [AD-A275349]	p 223 N94-28997	Clinical investigation program		U	
RITTER, ROXANE M.	p 223 1184-20881	(AD-A275025)	p 214 N94-29116		
Toxicity of carbon monoxide-I	nydrogen cyanide gas	SIEBENALLER, JOSEPH F. Effects of pressure on membrane	.econoistad recentors	UKETA, YOSHIE	
mixtures: Exposure concentration		and effector elements	-ESSOCIATION TOCOPTIONS	Effect of food intake on skin vasomotor respons	
carboxyhemoglobin, and blood of [DOT/FAA/AM-94/7]	yanide parameters p 216 N94-29919	(AD-A275813)	p 207 N94-28829	head-up tilt in humans p 212 N94-2 USUL SHIRO	8854
ROSENQVIST, H.	h 510 149459919	SIMKINS, THOMAS		Analysis of various biological activity parameters d	unina
Plant-microbe interactions: Plan	nt hormone production by	Monitor for status epilepticus seiz		parabolic flight p 221 N94-2	
phylloplane fungi		SMELTZER, STAN S.	p 218 N94-30460		
[PB94-135563] ROUGON, NICOLAS	p 208 N94-29189	Composite redesign of obstetrical	forceps	V	
Elements for the recognitio	n of three dimensional		p 218 N94-30457		
deformable shapes: Application	to biomedical imagery	SMITH, EDWARD E. Temporal and qualitative decon	itian of plansible	VALLOTTON, WILL	
[TELECOM-93-E-006]	p 218 N94-30978	reasoning	aposition of platusiole	Portable Linear Sled (PLS) for biomedical research p 209 N94-2	
•		(AD-A275073)	p 220 N94-29154	VANLUNTEREN, A.	5040
S		SOERLIE, R.		Aiding the operator in the manual control of a s	pace
CAOK EDED D		Maintaining acceptable thermal of temperature by means of local heat		manipulator	
SACK, FRED D. Cellular polarity and in	iteractions in plant	[PB94-138526]	p 224 N94-29950	[PB94-125549] p 225 N94-3 VASSAL P.	0390
graviperception		STASSEN, H. G.	•	Computer Assisted Medical Interventions: Applicati	ion to
(NASA-CR-195261)	p 210 N94-29943	Aiding the operator in the manu	al control of a space	Conformal Radiotherapy	
SAEKI, CHIKAKO		manipulator [PB94-125549]	p 225 N94-30390	[RR-912-1] p 216 N94-3	
Arterial oxygen saturation durir short-radius centrifuge	ng + Gz acceleration by p 212 N94-28852	STEWART, KAREN T.	P 110 110 10000	Conformal external radiotherapy of prostatic carcin	oma:
SAITO, MITSURU	p 2 12 110 7 20002	Circadian countermeasures for		Requirements and preliminary results p 217 N94-3	10029
Effect of water immersion on m	uscle sympathetic nerve	USMP-2: A report to mission manag [NASA-CR-195260]	pernent p 224 N94-30188	VENEMANS, P. J.	
response during static muscle co		SUZUKI, HAJIME	p 224 1484-50100	Sampling behaviour in a four instrument monitoring	
CAKUDADA COTADO	p 216 N94-29885	Arterial oxygen saturation during		Effects of signal bandwidth and number of events	s per
SAKURADA, SOTARO Effect of food intake on skin v	resomotor responses to	short-radius centrifuge	p 212 N94-28852	signal (AD-B179613) p 225 N94-3	10422
head-up tilt in humans	p 212 N94-28854	SUZUKI, HIROYUKI Motion sickness in parabolic	flight Possibility of	VOZZO, J. A.	
SANADA, ESTER		electrogastrography as an objective		Seed viability detection using computerized false-	color
Effect of chronic centrifugation			p 215 N94-29718	radiographic image enhancement p 211 N94-3	0461
and early development in mice or SANDERS, DONALD C.	va p 20/ N94-28853	SVEJKOVSKY, P. A.	- 1/40	VU, NGOCOANH	
Toxicity of carbon monoxide-h	vdrogen cvanide gas	Development of the NASA/Baylo	p 218 N94-30458	Toxicity of carbon monoxide-hydrogen cyanide mixtures: Exposure concentration, time-to-incapacita	
mixtures: Exposure concentration		SVENSSON, M. C.	P 210 110-100-100	carboxyhemoglobin, and blood cyanide parameters	1001,
carboxyhemoglobin, and blood cy		Control of heating, ventilation	and air conditioning	[DOT/FAA/AM-94/7] p 216 N94-2	9919
[DOT/FAA/AM-94/7]	p 216 N94-29919	(HVAC) systems	- 204 NO4 20000		
SASAKI, MITSUO Japanese Journal of Aerosp	ece and Environmental	[PB94-138807] SWINNEY, DAVID A.	p 224 N94-30000	W	
Medicine, volume 30, no. 1		Temporal and qualitative decom	position of plausible		
[JTN-94-80598]	p 212 N94-28850	reasoning		WADA, YOSHIRO	
Japanese Journal of Aerospan	ce and Environmental	[AD-A275073]	p 220 N94-29154	Motion sickness in parabolic flight: Possibility	y of
Medicine, vol. 30, no. 2	p 215 N94-29863	-		electrogastrography as an objective index p 215 N94-29	0718
(JTN-94-80599) SATO, MITSUO	p 215 1494-28003	•		WATANABE, SATORU	37 10
Microgravity by parabolic flight	with MU-300 aircraft	TACHOUS VACUEO		Motion sickness in parabolic flight: Possibility	y of
	p 224 N94-29710	TAGUCHI, YASUKO Behavior and visual control o	f cyarinodonts under	electrogastrography as an objective index	
	=	microgravity	p 210 N94-29713	p 215 N94-29	9718
		TAKABAYASHI, AKIRA		WEBB, JAMES T. Decompression sickness risk versus time and atti	
SAUCLER, D. R. Development of the NASA/Bay				[AD-A275261] p 214 N94-25	
Development of the NASA/Bay	p 218 N94-30458	Posture control of goldfishes unde			
Development of the NASA/Bay SAWAYAMA, SHIGEKI	p 218 N94-30458	•	p 209 N94-29712	WELLS, GEORGE H., JR.	
Development of the NASA/Bay	p 218 N94-30458 microalga Botryococcus age and its consumption	TAKAGI, KANICHI Japanese Journal of Aerospace	•	A fuzzy logic controller for hormone administration u	using
Development of the NASA/Bay SAWAYAMA, SHIGEKI Growth of hydrocarbon-rich of braumii in secondarily treated sew of nitrate ion and phosphate ion	p 218 N94-30458 microalga Botryococcus	TAKAGI, KANICHI Japanese Journal of Aerospace Medicine, volume 30, no. 1	and Environmental	A fuzzy logic controller for hormone administration u an implantable pump p 218 N94-30	using
Development of the NASA/Bay SAWAYAMA, SHIGEKI Growth of hydrocarbon-rich to braunii in secondarily treated sew of nitrate ion and phosphate ion SCANLON, RAYMOND D.	p 218 N94-30458 microalga Botryococcus age and its consumption p 209 N94-29519	TAKAGI, KANICHI Japanese Journal of Aerospace Medicine, volume 30, no. 1 [JTN-94-80598]	and Environmental p 212 N94-28850	A fuzzy logic controller for hormone administration u an implantable pump p 218 N94-30 WERCHAN, PAUL	using 0459
SAWAYAMA, SHIGEKI Growth of hydrocarbon-rich a braunii in secondarily treated sew of nitrate ion and phosphate ion SCANLON, RAYMOND D. Synaptogenesis, selective a	p 218 N94-30458 microalga Botryococcus age and its consumption p 209 N94-29519	TAKAGI, KANICHI Japanese Journal of Aerospace Medicine, volume 30, no. 1 [JTN-94-80598] Japanese Journal of Aerospac	and Environmental p 212 N94-28850	A fuzzy logic controller for hormone administration u an implantable pump p 218 N94-30	using 0459
Development of the NASA/Bay SAWAYAMA, SHIGEKI Growth of hydrocarbon-rich to braunii in secondarily treated sew of nitrate ion and phosphate ion SCANLON, RAYMOND D.	p 218 N94-30458 microalga Botryococcus age and its consumption p 209 N94-29519	TAKAGI, KANICHI Japanese Journal of Aerospace Medicine, volume 30, no. 1 [JTN-94-80598]	and Environmental p 212 N94-28850	A fuzzy logic controller for hormone administration u an implantable pump p 218 N94-30 WERCHAN, PAUL. Remote control of transcranial Doppler (TCD) p	using 0459 probe

SCHUCK, MARY MARGARET
The use of task network simulation in workload

Evaluation of monitoring audiometry in the United States

Air Force Hearing Conservation Program [AD-A275309] p 2

p 224 N94-30132

p 215 N94-29211

prediction [DCIEM-92-32]

SCHULZ, THERESA Y.

SECRIST, GRANT E.

WILLIAMS, F.

Physiological responses during shipboard firefighting [AD-A275104] p 214 N94-28912 WOJCIK, P.

Aspects of the operator interface for military robotic: applications in unstructured environments

WURTMAN, RICHARD J.

p 225 N94-30304

Strategies to sustain and enhance performance in stressful environments p 220 N94-29027

[AD-A275223] WYNN, TOM

Portable Linear Sled (PLS) for biomedical research p 209 N94-29648

Y

YAJIMA, KAZUYOSHI

Arterial oxygen saturation during +Gz acceleration by short-radius centrifuge p 212 N94-28852
Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853

YAMADA, SATOSHI
Copepods collected along 33.5 deg E longitude of the
Antarctic Ocean in the 1976 summer

p 207 N94-29082

YAMASHITA, KATSUMASA

Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats

p 210 N94-29866 YAMASHITA, MASAMICHI

Behavior and visual control of cyprinodonts under p 210 N94-29713 microgravity

YELVERTON, JOHN T.

Blast overpressure studies with animals and man [AD-A275038] p 214 N94-2 p 214 N94-29150

YOKOBORI, SAKAE

Japanese Journal of Aerospace and Environmental

Medicine, volume 30, no. 1

[JTN-94-80598] p 212 N94-28850 Japanese Journal of Aerospace and Environmental Medicine, vol. 30, no. 2

p 215 N94-29863 [JTN-94-80599]

YOSHIMURA, KENJIRO

Space movement of Trichinella spiralis under

microgravity p 209 N94-29711

YOSHIOKA, TOSHITADA
Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats

p 210 N94-29866

Z

ZEIKUS, J. G.

One carbon metabolism in anaerobic bacteria: Regulation of carbon and electron flow during organic acid production (DE94-004852)

p 211 N94-30180

Typical Corporate Source Index Listing

CORPORATE SOURCE Air Force Flight Test Center, Edwards AFB, CA. Revision and verification of a seven-point workload estimate scale IAD-A2691941 N94-18412 ACCESSION REPORT PAGE TITI E NUMBER NUMBER NUMBER

Listings in this index are arranged alphabetically by corporate source. The title of the document is used to provide a brief description of the subject matter. The page number and the accession number are included in each entry to assist the user in locating the abstract in the abstract section. If applicable, a report number is also included as an aid in identifying the document.

Aerospace Medical Research Labs., Brooks AFB, TX. Comparative centrifuge evaluation of the Air Force Advanced Technology Anti-G Suit (ATAGS) and the Navy Enhanced Anti-G Lower Ensemble (EAGLE) [AD-A275348] p 222 N94-28996

Aichi Fisheries Research Inst., Minato (Japan).

Copepods collected along 33.5 deg E longitude of the Antarctic Ocean in the 1976 summer

p 207 N94-29082

Air Force Inst. of Tech., Wright-Patterson AFB, OH. An investigation of stereopsis with AN/AVS-6 night vision goggles at varying levels of illuminance and [AD-A275332]

p 222 N94-28918 Evaluation of monitoring audiometry in the United States

Air Force Hearing Conservation Program p 215 N94-29211 [AD-A275309]

Air Force Systems Command, Wright-Patterson AFB, OH.

Stress and ergonomic design and evaluation of person-machine systems [AD-A275156] p 223 N94-29034

Air Force Test Pilot School, Edwards AFB, CA.

Human pilot response during single- and multi-axis tracking tasks [AD-A275080] p 220 N94-28887

Alberta Research Council, Edmonton.

Aspects of the operator interface for military robotic applications in unstructured environments

p 225 N94-30304

Army Armament Research, Development and Engineering Center, Watervilet, NY

Synaptogenesis, selective stabilization, and free IAD-A2752501 p 215 N94-29431

Monitor for status epilepticus seizures p 218 N94-30460 Army Medical Center, Aurora, CO. Clinical investigation program

[AD-A275025]

p 214 N94-29116

C

California Univ., Berkeley. Lawrence Berkeley Lab. Hydrogenated amorphous silicon (a-Si:H) based gamma imera: Monte Carlo simulations [DE94-007042] p 219 N94-31323

Carnegie-Mellon Univ., Pittsburgh, PA.

Non-intrusive gaze tracking using artificial neural notworks [AD-A275186] p 219 N94-28860

An architecturally-based theory of human sentence comprehension [AD-A275380] p 220 N94-29313

Center for Mathematics and Computer Science, Amsterdam (Netherlands).

The eroonomics of computer interfaces: Designing a system for human use p 225 N94-30320

[CWI-CS-R9258] City Univ. of New York, NY. Temporal and qualitative decomposition of plausible

reasoning [AD-A275073] p 220 N94-29154

Clemson Apparel Research, Pengleton, SC. Minimization of carpal tunnel syndrome

[AD-A276409] p 219 N94-31363

Connecticut Univ., Farmington.

Studies on bacterial spore ultraviolet light resistance and ulation of the activity of a spore prote p 207 N94-28884 [AD-A275448]

D

Defence and Civil Inst. of Environmental Medicine, Downsview (Ontario).

Effects of endurance training on heat-exercise tolerance in men wearing NBC protective clothing

p 214 N94-29049 (AD-A275176) Insulative properties of two thermo-metal neoprenes [AD-A2752091 p 223 N94-29302

The use of task network simulation in workload prediction

IDCIEM-92-321 p 224 N94-30132

Department of Agriculture, Starkville, MS.

Seed viability detection using computerized false-color radiographic image enhancement p 211 N94-30461 Department of Energy, Washington, DC.

Annual report and summaries of FY 1993 activities: Division of Energy Biosciences

[DE94-001723] p 211 N94-30607 Diamond Air Service, Inc. (Japan).

Microgravity by parabolic flight with MU-300 aircraft p 224 N94-29710

E

East Carolina Univ., Greenville, NC.

Physiological Anatomical Rodent Experiment (PARE) .04 feasibility test 2 (NASA-CR-1952101 p 210 N94-29968

Ecole Nationale Superieure des Telecommunications, Paris (France).

Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images

p 218 N94-30970 [TELECOM-93-D-016] Elements for the recognition of three dimensional deformable shapes: Application to biomedical imagery [TELECOM-93-E-006] p 218 N94-30978 p 218 N94-30978

Interactive reconstruction of anatomical structures with e-form surface [TELECOM-93-E-002] p 219 N94-31195

Edgerton, Germeshausen and Grier, inc., Albuquerque,

Blast overpressure studies with animals and man [AD-A275038] p 214 N94-29150 European Space Agency. European Space Research and Technology Center, ESTEC, Noordwijk (Netherlands).

Atmosphere quality standards in manned space vahirlas [ESA-PSS-03-401-ISSUE-1] p 226 N94-31224

Federal Aviation Administration, Okiahoma City, OK. Scanning and monitoring performance: Effects of the inforcement values of the events being monitored [DOT/FAA/AM-94/8] p 221 N94-29918

Toxicity of carbon monoxide-hydrogen cyanide gas mixtures: Exposure concentration, time-to-incapacitation, carboxyhemoglobin, and blood cyanide parameters [DOT/FAA/AM-94/7] p 216 N94-29919

Florida Univ., Gainesville.

International Journal of Quantum Chemistry, Quantum Biology Symposium number 20. Proceedings of the International Symposium on the Application of Fundamental Theory to Problems of Biology and Pharmacology

p 212 N94-31294 Fokker Space and Systems, Amsterdam (Netherlands). Aiding the operator in the manual control of a space nanioulator

[PR94-125549] D 225 N94-30390 Fujita Health Univ., Toyohashi (Japan).

Posture control of goldfishes under microgravity

p 209 N94-29712

G

George Washington Univ., Washington, DC.

Publications of the NASA Controlled Ecological Life Support System (CELSS) program 1989-1992 [NASA-CR-4603] p 224 N94-30122

Grenoble-1 Univ. (France).

Computer Assisted Medical Interventions: Application to Conformal Radiotherapy

[RR-912-I] p 216 N94-30028 Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029

and intra-radiotherapy multimodal image registration: Principles and first experiments p 217 N94-30030

Hamamatsu Univ., Shizuoka (Japan).

Space movement of Trichinella spiralis microgravity p 209 N94-29711 Helsinki Univ. of Technology, Espoo (Finland).

Plant-microbe interactions: Plant hormone production by phylloplane funci [PB94-135563] p 208 N94-29189 Physiology and molecular-genetics of thermus and bacillus [P894-135571] p 208 N94-29190

Japan Air Lines Co. Ltd., Tokyo.

Disturbance of equilibrium on JAL flight crew

p 213 N94-28856

Japan Society of Aerospace and Environmental Medicine, Tokyo. Japanese Journal of Aerospace and Environmental

Medicine, volume 30, no. 1 (JTN-94-805981 p 212 N94-28850 Japanese Journal of Aerospace and Environmental

Medicine, vol. 30, no. 2 o 215 N94-29863 Jet Propulsion Lab., California Inst. of Tech.,

Analysis and an image recovery algorithm for ultrasonic tomography system p 217 N94-30456

Jikei Univ. A fuzzy logic controller for hormone administration using Development of the NASA/Baylor VAD p 218 N94-30458 p 218 N94-30459 an implantable pump Jikel Univ., Tokyo (Japan). National Aeronautics and Space Administration. vertigo: In relation to space motion p 213 N94-28857 Space and Marshall Space Flight Center, Huntsville, AL sickness Composite redesign of obstetrical forceps p 218 N94-30457 Technical assessment of Mir-1 life support hardware for K the international space station p 226 N94-31380 [NASA-TM-108441] Kanagawa Prefectual Coll. (Japan). National Aerospace Lab., Amsterdam (Netherlands). Image technology and information analysis of bone Aiding the operator in the manual control of a space change with gravitational exposure p 212 N94-28851 manioulator Kanazawa Woman's Junior Coll. (Japan). [PB94-125549] Effect of food intake on skin vasomotor responses to Sampling behaviour in a four instrument monitoring task: p 212 N94-28854 head-up tilt in humans Effects of make-up on the heat transfer from the head Effects of signal bandwidth and number of events per in hyperthermic conditions p 216 N94-29864 Klein Assolciates, Inc., Fairborn, OH. signal p 225 N94-30422 [AD-B179613] Spectral analysis of heart rate and psychological state: Designing for performance: A cognitive engineering approach to modifying an AWACS human A review of its validity as a workload index [AD-B179387] p 221 N94-30969 computer interface [AD-A275187] p 222 N94-28861 National Inst. for Resources and Environment, Ibaraki Krug Life Sciences, Inc., San Antonio, TX. Relaxed tolerance following HSG, high sustained +Gz Growth of hydrocarbon-rich microalga Botryococcus braunii in secondarily treated sewage and its consumption [AD-A275204] p 213 N94-28892 Procedures and metrics for anti-G suit evaluations of nitrate ion and phosphate ion p 209 N94-29519 p 223 N94-28997 [AD-A275349] National Inst. of Polar Research, Tokyo (Japan). Decompression sickness risk versus time and attitude Japan-China collaboration research program on terrestrial biology at Great Wall Station in King George [AD-A275261] p 214 N94-29071 Island, in the summer of 1990/1991 Kyorin Univ., Tokyo (Japan). Psychophysiological study on the effects of co-existence p 208 N94-29085 p 221 N94-29867 of lines for detecting dot target National Space Development Agency, Tokyo (Japan). Hemodynamic measurement during parabolic flight p 215 N94-29717 Naval Command, Control and Ocean Surveillance Center, San Diego, CA. Louisiana State Univ., Baton Rouge. Towards simplicity: Noise and cooperation in the perfect Effects of pressure on membrane-associated receptors and effector elements integrator p 222 N94-31291 [AD-A276256] [AD-A275813] p 207 N94-28829 Navai Health Research Center, San Diego, CA. Comparison of two cool vests on heat-strain reduction white wearing a firefighting ensemble in a hot/humid Massachusetts Inst. of Tech., Cambridge. [AD-A275103] p 222 N94-28902 Strategies to sustain and enhance performance in Physiological responses during shipboard firefighting (AD-A275104) p 214 N94-28912 p 220 N94-29027 [AD-A275223] A review of microclimate cooling systems in the Materials Research Labs., Ascot Vale (Australia). chemical, biological, radiological environment Portable ventilatory resuscitation systems p 226 N94-31302 IAD-A2764461 [AD-A274984] p 223 N94-29093 Navy Experimental Diving Unit, Panama City, FL Michigan Biotechnology Inst., Lansing. Advanced seal delivery system life support parameters One carbon metabolism in anaerobic bacteria: p 223 N94-29184 [AD-A275304] Regulation of carbon and electron flow during organic acid Nihon Univ., Tokyo (Japan). production Arterial oxygen saturation during +Gz acceleration by short-radius centrifuge p 212 N94-28852 p 211 N94-30180 [DE94-004852] hort-radius centrifuge p 212 N94-28852 Effect of chronic centrifugation on in vitro tertilization Michigan Univ., Ann Arbor. Role of x ray-induced transcripts in adaptive responses and early development in mice ova p 207 N94-28853 following x rays p 211 N94-30895 nistry of Agriculture, Forestry, and Fisheries, Ibaraki Reproduction in the Japanese anchow (Engrautis Ohio State Univ., Columbus japonica) as related to population fluctuation Cellular polarity and interactions in plant p 209 N94-29708 Molecular Devices Corp., Menio Park, CA. (NASA-CR-195261) p 210 N94-29943 Microfabricated silicon p 210 N94-29783 microphysiometry R N Rush-Presbyterian-Saint Luke's Medical Center, Nagoya City Univ. (Japan). Circadian countermeasures for shiftworkers during p 213 N94-28855 Basic understanding of vertigo USMP-2: A report to mission management [NASA-CR-195260] p 22-Nagoya Univ. (Japan). p 224 N94-30188 A discussion of eye-head coordinative movement un microgravity during parabolic flight p 220 N94-29715 S Motion sickness in parabolic flight: Possibility of

electrogastrography as an objective index p 215 N94-29718 National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA. Leg muscle volume during 30-day 6-degree head-down bed rest with isotonic and isokinetic exercise training p 208 N94-29401 [NASA-TM-4580] Portable Linear Sled (PLS) for biomedical research

p 209 N94-29648 National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, Houston, TX. Tactility as a function of grasp force: Effects of glove,

orientation, pressure, load, and handle [NASA-TP-3474] p 225 N94-30210 Microencapsulation of anti-tumor, antibiotic and thrombolytic drugs in microgravity p 217 N94-30453 Dual use of image based tracking techniques: Laser eye p 217 N94-30455 surgery and low vision prosthesis

Seint Marianna Univ., Kawasaki (Japan).

Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats p 210 N94-29866

Seiskapet for Industriell og Teknisk Forskning,

Trondheim (Norway).

Maintaining acceptable thermal comfort with a low air mperature by means of local heating p 224 N94-29950 [PB94-138526]

Control of heating, ventilation and air conditioning [PB94-138807] p 224 N94-30000

ety of Medical Research for Space Station,

Nagoya (Japan).
The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic [JTN-94-80588] p 215 N94-29709

Southeastern Center for Electrical Engineering

Education, Inc., Saint Cloud, FL. Remote control of transcranial Doppler (TCD) probe during centrifuge exposures up to 9 +Gz [AD-A275253] p 2 p 223 N94-29029 Situational awareness: A feasibility investigation of

near-threshold skills development p 221 N94-31243 [AD-A276467]

veriges Lantbruksuniv., Uppsala.

Stable RNA sequences as a tool for DNA probes and phylogenetic studies p 208 N94-29156 [PB94-135423]

Tokyo Medical and Dental Univ. (Japan).

Equilibrium dysfunction in the clinical field p 213 N94-28858

Tokyo Univ. (Japan). Behavior and visual control of cyprinodonts under

microgravity p 210 N94-29713 Toyohashi Univ. of Technology, Alchi (Japan).

Analysis of various biological activity parameters during p 221 N94-29716 parabolic flight

Toyota Coll. of Technology (Japan).

Effect of water immersion on muscle sympathetic nerve response during static muscle contraction

p 216 N94-29865

Vanderbilt Univ., Nashville, TN.

EVA glove evaluation methodology and test protocol p 224 N94-29729 Analysis and design of inflatable aerospace structures p 226 N94-30799

Waseda Univ., Tokyo (Japan).

Estimation of the net production of moss community at Langhovde, East Antarctica p 207 Neigmann Inst. of Science, Rehovoth (Israel). p 207 N94-29081

Characteristics of secondary electron emission from CsI induced by x rays with energies up to 100 keV IDE94-6084221

July 1994

FOREIGN TECHNOLOGY INDEX

AEROSPACE MEDICINE AND BIOLOGY / A Continuing Bibliography (Supplement 390)

Typical Foreign Technology **Index Listing**

COUNTRY OF INTELLECTUAL ORIGIN CZECHOSI OVAKIA The different effects of hypokinesia on insulin receptors in various tissues of rats [IAF PAPER 93-144] p 2 PAGE ACCESSION TITLE NUMBER NUMBER

Listings in this index are arranged alphabetically by country of intellectual origin. The title of the document is used to provide a brief description of the subject matter. The page number and accession number are included in each entry to assist the user in locating the abstract in the abstract section. If applicable, a report number is also included as an aid in identifying the document.

AUSTRALIA

Portable ventilatory resuscitation system (AD-A274984) p 223 N94-29093

C

Effects of endurance training on heat-exercise tolerance

in men wearing NBC protective clothing (AD-A275176) p 214 N94-29049 Insulative properties of two thermo-metal neoprenes [AD-A275209] p 223 N94-29302 The use of task network simulation in workload

prediction [DCIEM-92-32] p 224 N94-30132

Aspects of the operator interface for military robotic applications in unstructured environments p 225 N94-30304

FINLAND

Plant-microbe interactions: Plant hormone production by phylloplane fungi [PB94-135563] p 208 N94-29189 Physiology and molecular-genetics of thermus and

p 208 N94-29190 [PB94-135571]

FRANCE

Computer Assisted Medical Interventions: Application to

Conformal Radiotherapy [RR-912-I]

p 216 N94-30028

Conformal external radiotherapy of prostatic carcinoma: Requirements and preliminary results p 217 N94-30029

intra-radiotherapy multimodal and registration: Principles and first experiments

p 217 N94-30030

Use of snakes to link edge points to create left ventricular boundaries in echocardiographic images [TELECOM-93-D-016] p 218 N94-30970

Elements for the recognition of three dimensional deformable shapes: Application to biomedical imagery [TELECOM-93-E-006] p 218 N94-30978 Interactive reconstruction of anatomical structures with

free-form surfaces [TELECOM-93-E-002] p 219 N94-31195

1

ISRAEL

Characteristics of secondary electron emission from Csl induced by x rays with energies up to 100 keV [DE94-608422] p 217 N94-30185

JAPAN

Japanese Journal of Aerospace and Environmental Medicine, volume 30, no. 1 [JTN-94-80598] p 212 N94-28850 Image technology and information analysis of bone change with gravitational exposure p 212 N94-28851 Arterial oxygen saturation during +Gz acceleration by short-radius centrifuge p 212 N94-28852 Effect of chronic centrifugation on in vitro fertilization and early development in mice ova p 207 N94-28853 Effect of food intake on skin vasomotor responses to p 212 head-up tilt in humans N94-28854 p 213 N94-28855 Basic understanding of vertico Disturbance of equilibrium on JAL flight crew p 213 N94-28856

Space and vertigo: In relation to space motion p 213 N94-28857 Equilibrium dysfunction in the clinical field

p 213 N94-28858

Estimation of the net production of moss community at Langhovde, East Antarctica p 207 N94-29081 Copepods collected along 33.5 deg E longitude of the Antarctic Ocean in the 1976 summer

p 207 N94-29082 Japan-China collaboration research program on terrestrial biology at Great Wall Station in King George Island, in the summer of 1990/1991

p 208 N94-29085 Growth of hydrocarbon-rich microalga Botryococcus braunii in secondarily treated sewage and its consumption of nitrate ion and phosphate ion p 209 N94-29519 p 209 N94-29519 Reproduction in the Japanese anchovy (Engraulis

p 209 N94-29708 The MERSS 5th Symposium on Space Medicine: Medical and Physiological Experiment Utilizing Parabolic Flight

japonica) as related to population fluctuation

p 215 N94-29709 [JTN-94-80588] Microgravity by parabolic flight with MU-300 aircraft

p 224 N94-29710 movement of Trichinella spiralis p 209 N94-29711 microgravity Posture control of goldfishes under microgravity

p 209 N94-29712 Behavior and visual control of cyprinodonts under microgravity p 210 N94-29713 A discussion of eve-head coordinative movement under microgravity during parabolic flight p 220 N94-29715

Analysis of various biological activity parameters during p 221 N94-29716 parabolic flight Hemodynamic measurement during parabolic flight

p 215 N94-29717 Motion sickness in parabolic flight: Possibility of electrogastrography as an objective index

p 215 N94-29718 Japanese Journal of Aerospace and Environmental Medicine, vol. 30, no. 2 [JTN-94-80599] p 215 N94-29863

Effects of make-up on the heat transfer from the head in hyperthermic conditions hyperthermic conditions p 216 N94-29864 Effect of water immersion on muscle sympathetic nerve response during static muscle contraction

p 216 N94-29865 Shortening velocity and calcium sensitivity of single fibers from hindlimb suspended muscle in rats

n 210 N94-29866 Psychophysiological study on the effects of co-existence of lines for detecting dot target p 221 N94-29867

NETHERLANDS

The ergonomics of computer interfaces: Designing a system for human use CWI-CS-R92581 p 225 N94-30320 Aiding the operator in the manual control of a space

p 225 N94-30390 (PR94-125549) Sampling behaviour in a four instrument monitoring task: Effects of signal bandwidth and number of events per

signal [AD-B179613] p 225 N94-30422 Spectral analysis of heart rate and psychological state: A review of its validity as a workload index

[AD-B179387] p 221 N94-30969 quality standards in Atmosphere manned space vehicles

[ESA-PSS-03-401-ISSUE-1] p 226 N94-31224 NORWAY

Maintaining acceptable thermal comfort with a low air temperature by means of local heating [PB94-138526] p 224 N94-29950

Control of heating, ventilation and air conditioning (HVAC) systems [PB94-138807] p 224 N94-30000

S

SWEDEN

Stable RNA sequences as a tool for DNA probes and phylogenetic studies [PB94-135423] p 208 N94-29156

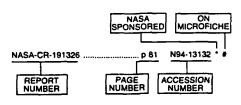
Typical Contract Number Index Listing



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 the contract are shown. The accession number denotes the number by which the citation is identified in the abstract section. Preceding the accession number is the page number on which the citation may be found.

AF PROJ. 7184	p 223	N94-29034
AF-AFOSR-0125-90	p 220	N94-29027
AF-AFOSR-0225-91	p 220	N94-29154
DAAH04-93-C-0072	p 212	N94-31294
DAAL03-90-G-0110	p 207	N94-28884
DAMD17-88-C-8141	p 214	N94-29150
DE-AC03-76SF-00098	p 219	N94-31323
DE-FG02-87ER-13719	p 211	N94-30180
DE-FG02-91ER-61256	p 211	N94-30895
DLA900-87-D-0017	p 219	N94-31363
F33615-87-C-0614	p 221	N94-31243
F33615-87-D-0609	p 223	N94-29029
F33615-90-C-0533	p 222	N94-28861
F33615-92-C-0018	p 213	N94-28892
	p 223	N94-28997
	p 214	N94-29071
F33615-93-1-1330	p 220	N94-29313
MDA972-92-C-0005	p 210	N94-29783
NAG10-0085	p 210	N94-29943
NASA ORDER H-13012-D	p 224	N94-30188
NASW-4324	p 224	N94-30122
NCC2-810	p 210	N94-29968
NR PROJ. M33-P-30	p 226	N94-31302
N00014-89-J-1865	p 207	N94-28829
N00014-93-1-0806	p 219	N94-28860
RTOP 199-16-12-17	p 209	N94-29648
RTOP 199-16-12-19	p 209	N94-29648
RTOP 199-18-12-07	p 208	N94-29401
RTOP 199-90-63-20	p 209	N94-29648
SERC-92314900	D 218	N94-30970

Typical Report Number Index Listing



Listings in this index are arranged alphanumerically by report number. The page number indicates the page on which the citation is 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-94054	p 208	N94-29401	• #
AD-A274984	p 223	N94-29093	
AD-A275025		N94-29116	#
AD-A275038		N94-29150	#
AD-A275073		N94-29154	#
AD-A275080	p 220	N94-28887	#
AD-A275103	p 222	N94-28902	#
AD-A275104	p 214	N94-28912	#
AD-A275156	p 223	N94-29034	#
AD-A275176	p 214	N94-29049	#
AD-A275186	p 219	N94-28860	*
AD-A275187	D 222	N94-28861	#
AD-A275204	p 213	N94-28892	7
AD-A275209	p 223	N94-29302	#
AD-A275223		N94-29027	77
AD-A275250	p 215	N94-29431	#
	p 223	N94-29029	77
		N94-29029 N94-29071	
AD-A275304	p 223	N94-29184	
AD-A275309	p 215	N94-29211	
AD-A275332	p 222	N94-28918	#
AD-A275348	p 222	N94-28996	#
AD-A275349	p 223	N94-28997	#
AD-A275380	p 220	N94-29313	#
AD-A275448	p 207	N94-28884	#
AD-A275813	p 207	N94-28829	
AD-A276256	p 222	N94-31291	#
AD-A276294	p 212	N94-31294	#
AD-A276409	p 219	N94-31363.	#
AD-A276446	p 226	N94-31302	#
AD-A276467	p 221	N94-31243	#
AD-B179387	p 221	N94-30969	
AD-B179613	p 225	N94-30422	
AFFTC-TLR-93-41	p 220	N94-28887	#
AFIT/CI/CIA-93-160	p 222	N94-28918	#
AFIT/CI/CIA-93-24D		N94-29211	
74 11 OI	P 2.5	110	
AFOSR-94-0002TR	p 220	N94-29154	#
AFOSR-94-0038-TR		N94-29027	"
70 CON-54-0430-17	P 220	110-20021	
AL/AO-TR-1994-0002	p 221	N94-31243	#
AL/CF-PC-1993-0039	p 214	N94-29071	
AL/CF-PC-1993-0042		N94-28892	
AL/CF-PC-1983-0043	p 223	N94-28997	
AL/CF-PC-1993-0046	p 223	N94-29029	-
AL/CF-PC-1993-0052	p 222	N94-28996	#
TO 1983-0032	A 555	1107-20050	7
AL/CF-SR-1993-0008	p 223	N94-29034	#

AL/CF-TR-1993-0093 p 222 N94-28861 #

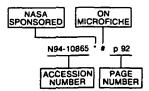
ARCC8-TR-93039	p 215	N94-29431 #
ARO-27956.17-LSARO-31084.1-PH-CF		N94-28884 # N94-31294 #
CMU-CS-93-226CMU-CS-94-102		N94-29313 # N94-28860 #
CONF-940254-1	p 219	N94-31323 #
CTN-94-61138	p 224	N94-30132 #
CWI-CS-R9258	p 225	N94-30320
DCIEM-92-32DCIEM-93-46DCIEM-93-53	p 214	N94-30132 # N94-29049 # N94-29302 #
DE94-001723 DE94-004852		N94-30607 # N94-30180
DE94-005412		N94-30895
DE94-007042	p 219	N94-31323 #
DE94-608422		
DODA-AR-008-575	p 223	N94-29093
DOE/ER-0602P		N94-30607 #
DOE/ER-13719/5		N94-30180
DOE/ER-61256/T2	p 211	N94-30895
DOT/FAA/AM-94/7DOT/FAA/AM-94/8		
ESA-PSS-03-401-ISSUE-1	p 226	N94-31224 #
ETN-94-95000		N94-30028 #
ETN-94-95540		N94-30320
ETN-94-95586		N94-30390 N94-31224 #
ETN-94-95960	p 225	N94-30422
ETN-94-95975	p 221	N94-30969
ETN-94-95976		N94-30970 #
ETN-94-95980	p 218	N94-31195 # N94-30978
ISBN-95-576-4755-0	p 208	N94-29156 #
ISBN-951-22-1633-7ISBN-951-22-1671-X	p 208	N94-29190 N94-29189
TOOLS OF SECTION AND ADDRESS OF SECTION ADDRESS OF SECTIO	p 200	1104-20100
JTN-94-80588		N94-29709 #
JTN-94-80598		N94-28850 # N94-29863 #
LBL-35050	•	
MRL-TN-649	p 223	N94-29093
NAC 4 45-100444		NO4 91900 1 4
NAS 1.15:108441 NAS 1.15:4580		N94-31380 * # N94-29401 * #
NAS 1.26:195210		N94-29968 * #
NAS 1.26:195260		N94-30188 * #
NAS 1.26:195261 NAS 1.26:4603	p 210	N94-29943 * #
NAS 1.60:3474		N94-30122 * # N94-30210 * #
NASA-CR-195210 NASA-CR-195260		
NASA-CR-195261	D 210	N94-29943 * #
NASA-CR-195261 NASA-CR-4603	p 224	N94-30122 * #
NASA-TM-108441 NASA-TM-4580	p 226 p 208	N94-31380 * # N94-29401 * #
NASA-TP-3474	p 225	N94-30210 ° #
NEDU-2-94	p 223	N94-29184
NHRC-93-10	p 222	N94-28902 #
NHRC-93-23	p 226	N94-31302 #
NHRC-93-9	p 214	N94-28912 #
NLR-TP-92261-UNLR-TP-92386-U	p 225 p 225	N94-30390 N94-30422

NLR-TP-93034-U	p 221	N94-30969	
OSURF-724742	p 210	N94-29943 * #	
PB94-125549	p 225	N94-30390	
PB94-135423	p 208	N94-29156 #	
PB94-135563	p 208	N94-29189	
PB94-135571	p 208	N94-29190	
PB94-138526	p 224	N94-29950	
PB94-138807	p 224	N94-30000	
REPT-31522-LS	p 207	N94-28884 #	
RR-912-I	p 216	N94-30028 #	
S-761	p 225	N94-30210 * #	
SLU-MIKRO-R-57-SE	p 208	N94-29156 #	
STF11-A93056	p 224	N94-30000	
STF15-A93053	p 224	N94-29950	
TELECOM-93-D-016	p 218	N94-30970 #	
TELECOM-93-E-002	p 219	N94-31195 #	
	p 218	N94-30978	
WIS-PH-93-60	p 217	N94-30185 #	

AEROSPACE MEDICINE AND BIOLOGY / A Continuing Bibliography (Supplement 390)

July 1994

Typical Accession Number Index Listing



Listings in this index are arranged alphanumerically by accession number. The page number indicates the page on which the citation is 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.

N94-28850 # p 212 N94-28864 # p : N94-28851 # p 212 N94-28865 # p : N94-28852 # p 212 N94-28866 # p : N94-28853 # p 207 N94-28967 # p : N94-28855 # p 213 N94-28918 # p : N94-28855 # p 213 N94-29919 # p : N94-28856 # p 213 N94-2993					
N94-28851 # p 212 N94-28865 # p 2 N94-28853 # p 207 N94-28866 # p 3 N94-28853 # p 207 N94-28866 # p 3 N94-28853 # p 207 N94-28854 # p 212 N94-29918 # p 3 N94-28855 # p 213 N94-29918 # p 3 N94-28855 # p 213 N94-29913 * p 2 N94-28857 # p 213 N94-29930 * p 2 N94-28857 # p 213 N94-29930 * p 3 N94-28856 # p 213 N94-29950 p 3 N94-28856 # p 219 N94-28056 # p 219 N94-30026 # p 3 N94-28861 # p 222 N94-30026 # p 3 N94-28861 # p 207 N94-30029 # p 2 N94-28887 # p 220 N94-30030 # p 3 N94-28902 # p 222 N94-30132 * p 3 N94-28902 # p 213 N94-30132 * p 3 N94-28902 # p 214 N94-28912 # p 214 N94-30180 p 3 N94-28996 # p 222 N94-30185 # p 3 N94-28996 # p 222 N94-30185 * p 3 N94-28997 # p 223 N94-30210 * p 3 N94-28029 p 223 N94-30210 * p 3 N94-28029 p 223 N94-30210 * p 3 N94-28034 # p 207 N94-30300 p 3 N94-28034 # p 207 N94-30455 * p 3 N94-28034 # p 207 N94-30455 * p 2 N94-29081 # p 207 N94-30455 * p 2 N94-29093 # p 207 N94-30455 * p 2 N94-29093 # p 207 N94-30456 * p 2 N94-29093 # p 208 N94-30456 * p 2 N94-29156 # p 208 N94-30456 * p 2 N94-29156 # p 208 N94-30456 * p 2 N94-29150 # p 208 N94-30697 # p 208 N94-30456 * p 2 N94-29150 # p 209 N94-30456 * p 2 N94-29160 #	N94-28829		p 207	N94-29863 #	p 215
N94-28852 # p 212 N94-28866 # p : N94-28853 # p 207 N94-28867 # p : N94-28854 # p 212 N94-29918 # p : N94-28855 # p 213 N94-29919 # p : N94-28855 # p 213 N94-29930 * p : N94-28858 # p 213 N94-29930 * p : N94-28858 # p 213 N94-29968 * # p : N94-28858 # p 213 N94-29968 * # p : N94-28866 # p 219 N94-30000 p : N94-28866 # p 222 N94-30028 # p : N94-28884 # p 207 N94-30028 # p : N94-28887 # p 220 N94-30030 # p : N94-28887 # p 220 N94-30030 # p : N94-28887 # p 222 N94-30132 # p : N94-28902 p 213 N94-30132 # p : N94-28912 # p 214 N94-30180 p : N94-28918 # p 222 N94-30186 * # p : N94-28997 # p 223 N94-30186 * p : N94-29097 p 223 N94-30100 * p : N94-29034 # p 223 N94-30210 * # p : N94-29034 # p 223 N94-30304 p : N94-29034 # p 223 N94-30300 p : N94-29034 # p 214 N94-30450 * p : N94-29049 # p 214 N94-30455 * # p : N94-29081 # p 207 N94-30455 * # p : N94-29081 # p 207 N94-30456 * # p : N94-29081 # p 207 N94-30456 * # p : N94-29081 # p 208 N94-30456 * # p : N94-29081 # p 208 N94-30456 * # p : N94-29156 # p 208 N94-30456 * # p : N94-29156 # p 208 N94-30459 # p : N94-29150 # p 214 N94-30459 * # p : N94-29150 # p 215 N94-30979 p : N94-29169 p 208 N94-30459 * p : N94-29169 p 208 N94-30469 * p : N94-29169 p 209 N94-31294 # p : N94-29170 # p 209	N94-28850	#	p 212	N94-29864 #	p 216
N94-28853 # p 207 N94-29867 # p 2 N94-28854 # p 213 N94-29918 # p 3 N94-28855 # p 213 N94-29918 # p 3 N94-28856 # p 213 N94-29963 * p 213 N94-29963 * p 213 N94-29968 * p 219 N94-30026 # p 219 N94-30026 # p 219 N94-30026 # p 219 N94-30026 # p 219 N94-28861 # p 222 N94-30026 # p 219 N94-28892 * p 220 N94-30029 # p 219 N94-28992 * p 222 N94-30132 * p 219 N94-28912 * p 214 N94-30132 * p 214 N94-28918 * p 222 N94-30186 * p 223 N94-30210 * * p 233 N94-30210 * * p 234-29029 * p 223 N94-30304 * p 234-29034 * p 223 N94-30309 * p 244-29034 * p 223 N94-30309 * p 244-29034 * p 223 N94-30309 * p 244-29034 * p 223 N94-30455 * * p 244-29049 * p 214 N94-30452 * * p 244-29049 * p 214 N94-30455 * * p 244-29082 * p 207 N94-30455 * * p 244-29082 * p 207 N94-30455 * * p 208 N94-29083 * p 223 N94-30457 * * p 208 N94-29093 * p 223 N94-30457 * * p 208 N94-29093 * p 223 N94-30457 * p 208 N94-29156 * p 208 N94-30460 * p 208 N94-30460 * p 208 N94-30460 * p 208 N94-29156 * p 208 N94-30695 * p 208 N94-30695 * p 208 N94-30695 * p 208 N94-30697 * p 208 N94-29169 * p 209 N94-31294 * p 209 N94-31392 * p 209	N94-28851	#	p 212	N94-29865 #	p 216
N94-28854 # p 212 N94-29918 # p 2 N94-28855 # p 213 N94-29919 # p 2 N94-28856 # p 213 N94-29930 # p 2 N94-28857 # p 213 N94-29950 p 2 N94-28858 # p 213 N94-29960 # p 2 N94-28866 # p 219 N94-30000 # p 2 N94-28866 # p 222 N94-30028 # p 2 N94-28887 # p 220 N94-30029 # p 2 N94-28887 # p 220 N94-30030 # p 2 N94-28887 # p 220 N94-30132 # p 2 N94-28890 p 213 N94-30132 # p 2 N94-28902 # p 222 N94-30132 # p 2 N94-28902 # p 222 N94-30132 # p 2 N94-28918 # p 214 N94-30180 # p 2 N94-28918 # p 222 N94-30180 # p 2 N94-28996 # p 222 N94-30180 # p 2 N94-29097 # p 223 N94-30100 # p 2 N94-29094 # p 223 N94-30210 * # p 2 N94-29034 # p 223 N94-30300 p 2 N94-29034 # p 214 N94-30450 * # p 2 N94-29034 # p 214 N94-30450 * # p 2 N94-29031 # p 207 N94-30455 * # p 2 N94-29081 # p 207 N94-30455 * # p 2 N94-29093 # p 207 N94-30456 * # p 2 N94-29093 # p 208 N94-30456 * # p 2 N94-29093 # p 214 N94-30456 * # p 2 N94-29093 # p 214 N94-30456 * # p 2 N94-29093 # p 214 N94-30456 * # p 2 N94-29093 # p 214 N94-30456 * # p 2 N94-29094 # p 214 N94-30456 * # p 2 N94-29095 # p 208 N94-30456 * # p 2 N94-29096 # p 223 N94-30456 * # p 2 N94-29096 # p 214 N94-30456 * # p 2 N94-29096 # p 214 N94-30456 * # p 2 N94-29097 # p 214 N94-30456 * # p 2 N94-29098 # p 208 N94-30456 * # p 2 N94-29099 # p 214 N94-30456 * # p 2 N94-29156 # p 208 N94-30456 * # p 2 N94-29150 # p 208 N94-30456 * p 2 N94-29150 # p 214 N94-30456 * p 2 N94-29150 # p 209 N94-31195 # p 2 N94-29150 # p 209 N94-31195 # p 2 N94-29190 p 208 N94-30969 p 2 N94-29190 p 208 N94-30969 p 2 N94-29190 p 208 N94-30969 p 2 N94-29190 # p 209 N94-31294 # p 2 N94-29190 # p 209 N94-31294 # p 2 N94-29190 # p 209 N94-31294 # p 2 N94-29100 # p 209 N94-31329 # p 2 N94-29700 # p 209			p 212	N94-29866 #	p 210
N94-28856 # p 213 N94-29933 * p 2 N94-28856 # p 213 N94-29933 * p 2 N94-28858 # p 213 N94-29968 * # p 2 N94-28858 # p 213 N94-29968 * # p 2 N94-28860 # p 219 N94-30000 p 3 N94-28884 # p 207 N94-30028 # p 2 N94-28887 # p 220 N94-30030 # p 3 N94-28887 # p 220 N94-30030 # p 3 N94-28887 # p 220 N94-30030 # p 3 N94-28992 p 213 N94-30132 # p 3 N94-28992 # p 222 N94-30132 # p 3 N94-28992 # p 222 N94-30132 # p 3 N94-28996 # p 222 N94-30186 * # p 3 N94-28997 # p 223 N94-30186 * # p 3 N94-28997 # p 223 N94-30100 # p 3 N94-29034 # p 223 N94-30304 p 3 N94-29034 # p 223 N94-30300 p 3 N94-29034 # p 223 N94-30300 p 3 N94-29034 # p 214 N94-30453 * # p 3 N94-29031 # p 214 N94-30453 * # p 3 N94-29081 # p 207 N94-30455 * # p 3 N94-29081 # p 207 N94-30455 * # p 3 N94-29081 # p 207 N94-30456 * # p 3 N94-29081 # p 207 N94-30456 * # p 3 N94-29082 # p 207 N94-30456 * # p 3 N94-29083 p 223 N94-30456 * # p 3 N94-29084 # p 214 N94-30456 * # p 3 N94-29085 # p 208 N94-30456 * # p 3 N94-29084 # p 214 N94-30456 * # p 3 N94-29154 # p 220 N94-30456 * # p 3 N94-29154 # p 208 N94-30456 * # p 3 N94-29154 # p 220 N94-30456 * # p 3 N94-29154 # p 220 N94-30456 * # p 3 N94-29150 # p 214 N94-30456 * # p 3 N94-29150 # p 214 N94-30456 * # p 3 N94-29150 # p 214 N94-30456 * # p 3 N94-29150 # p 214 N94-30459 * # p 3 N94-29150 # p 215 N94-30469 * # p 3 N94-29169 p 208 N94-30697 # p 3 N94-29169 p 209 N94-31294 # p 3 N94-29169 # p 224 N94-31322 # p 3 N94-29169 # p 209 N94-31294 # p 3 N94-29169 # p 209 N94-31329 # p 3 N94-29169 # p 209 N94-31329 # p 3 N94-29169 # p 209 N94-31320	N94-28853	#	p 207	N94-29867 #	p 221
N94-28856 # p 213 N94-29980 * p 214 N94-29881 # p 222 N94-30026 # p 215 N94-28861 # p 222 N94-30026 # p 215 N94-28887 # p 220 N94-30028 # p 218 N94-28887 # p 220 N94-30132 * p 218 N94-28892 * p 213 N94-30132 * p 218 N94-28912 * p 214 N94-30132 * p 218 N94-28912 * p 214 N94-30180 * p 222 N94-30180 * p 223 N94-30210 * * p 23 N94-29027 * p 223 N94-30304 p 23 N94-29027 * p 223 N94-30300 p 23 N94-29034 * p 223 N94-30320 p 2404-29034 * p 223 N94-30320 p 2404-29034 * p 223 N94-30450 * * p 2404-29049 * p 214 N94-30452 * * p 2404-29082 * p 207 N94-30455 * * p 2404-29083 * p 223 N94-30457 * * p 2404-29084 * p 208 N94-30457 * p 2404-2916 * p 208 N94-30460 * * p 2404-2916 * p 208 N94-30969 * p 2404-2916 * p 209 N94-31294 * p 2404-2916 * p 209 N94-31322 * p 209 N94-31322 * p 209 N94-31322 * p 209 N94-31323 * p 209 N94-31323 * p 2404-2910 * p 20	N94-28854	#	p 212	N94-29918 #	p 221
N94-28857 # p 213 N94-29950 p 2 N94-28858 # p 213 N94-29968 # p 3 N94-28866 # p 219 N94-30000 # p 3 N94-28861 # p 222 N94-30028 # p 3 N94-28867 # p 220 N94-30029 # p 3 N94-28887 # p 220 N94-30030 # p 3 N94-28897 # p 220 N94-30132 # p 3 N94-28902 # p 222 N94-30132 # p 3 N94-28912 # p 214 N94-30185 # p 3 N94-28912 # p 214 N94-30185 # p 3 N94-28997 # p 222 N94-30185 # p 3 N94-28997 # p 222 N94-30185 # p 3 N94-28997 # p 222 N94-30186 # p 3 N94-28997 # p 223 N94-30186 # p 3 N94-29027 p 220 N94-30304 p 3 N94-29029 p 223 N94-30210 * # p 3 N94-29034 # p 214 N94-30450 * # p 3 N94-29034 # p 214 N94-30450 * # p 3 N94-29081 # p 207 N94-30455 * # p 3 N94-29081 # p 207 N94-30455 * # p 3 N94-29082 # p 207 N94-30456 * # p 3 N94-29083 # p 208 N94-30456 * # p 3 N94-29085 # p 208 N94-30456 * # p 3 N94-29150 # p 214 N94-30456 * # p 3 N94-29150 # p 214 N94-30456 * # p 3 N94-29150 # p 214 N94-30456 * # p 3 N94-29150 # p 214 N94-30456 * # p 3 N94-29150 # p 214 N94-30456 * # p 3 N94-29150 # p 214 N94-30456 * # p 3 N94-29150 # p 214 N94-30456 * # p 3 N94-29150 # p 215 N94-30456 * p 3 N94-29150 # p 208 N94-30697 # p 3 N94-29151 # p 209 N94-31185 # p 3 N94-29190 p 208 N94-30697 # p 3 N94-29190 p 208 N94-31294 # p 209 N94-31294 # p 3 N94-29190 p 209 N94-31294 # p 3 N94-29190 # p 215 N94-31294 # p 3 N94-29190 # p 209 N94-31294 # p 3 N94-29190 # p 209 N94-31294 # p 3 N94-29190 # p 209 N94-31329 # p 3 N94-29190 # P 209 N94-3132			p 213	N94-29919 #	p 216
N94-28858 # p 213	194-28856	#	p 213	N94-29943 *#	p 210
N94-28860 # p 219 N94-30000 p: N94-28861 # p 222 N94-30026 # p: N94-28887 # p 220 N94-30029 # p: N94-28887 # p 220 N94-30132 # p: N94-28892 p 213 N94-30132 # p: N94-28912 # p 214 N94-30132 # p: N94-28912 # p 214 N94-30180 p: N94-28918 # p 222 N94-30185 # p: N94-28918 # p 222 N94-30185 # p: N94-28997 # p 223 N94-30185 # p: N94-28907 p 220 N94-30186 * p: N94-28907 p 223 N94-30180 * p: N94-29029 p 223 N94-30304 p: N94-29034 # p 223 N94-30300 p: N94-29039 p 214 N94-30320 p: N94-29049 # p 214 N94-30452 * p: N94-29081 # p 207 N94-30455 * # p: N94-29081 # p 208 N94-30455 * # p: N94-29116 # p 214 N94-30455 * # p: N94-29156 # p 208 N94-30460 * # p: N94-29159 # p 223 N94-30460 * # p: N94-29150 # p 208 N94-30460 * # p: N94-29151 # p 209 N94-3078 p: N94-29100 p 208 N94-30695 p: N94-29100 p 208 N94-30697 # p: N94-29100 N94-31261 # p: N94-29100 # p 209 N94-31362 # p: N94-29100 # p: N94-291	N94-28857	#	p 213	N94-29950	p 224
N94-28861 # p 222 N94-30028 # p : N94-28884 # p 207 N94-30029 # p : N94-28887 # p 220 N94-30030 # p : N94-28892 p 213 N94-30132 # p : N94-28902 # p 222 N94-30132 # p : N94-28912 # p 214 N94-30185 # p : N94-28918 # p 222 N94-30185 # p : N94-28997 # p 223 N94-30185 # p : N94-28997 # p 223 N94-30186 # p : N94-28027 p 220 N94-30304 p : N94-29029 p 223 N94-30210 * # p : N94-29029 p 223 N94-30300 p : N94-29034 # p 2214 N94-30320 p : N94-29034 # p 223 N94-30320 p : N94-29034 # p 2214 N94-30390 p : N94-29034 # p 2214 N94-30455 * # p : N94-29081 # p 207 N94-30455 * # p : N94-29081 # p 207 N94-30456 * # p : N94-29085 # p 208 N94-30456 * # p : N94-2916 # p 214 N94-30456 * # p : N94-2916 # p 214 N94-30456 * # p : N94-29150 # p 214 N94-30456 * # p : N94-29150 # p 214 N94-30456 * # p : N94-29150 # p 214 N94-30456 * # p : N94-29156 # p 208 N94-30456 * # p : N94-29156 # p 208 N94-30459 * # p : N94-29156 # p 208 N94-30459 * # p : N94-29156 # p 208 N94-30697 # p : N94-29150 # p 214 N94-30459 * # p : N94-29150 # p 215 N94-30697 # p : N94-29150 # p 208 N94-30697 # p : N94-29169 p 208 N94-30697 # p : N94-29189 p 208 N94-30697 # p : N94-29189 p 208 N94-30697 # p : N94-29169 # p 209 N94-31294 # p : N94-29171 # p 209 N94-31322 # p : N94-29708 # p 209 N94-31322 # p : N94-29708 # p 209 N94-31322 # p : N94-29709 # p 215 N94-31323 # p : N94-29709 # p 209 N94-31322 # p : N94-29709 # p 209 N94-31323 # p : N94-29709 # p 209 N94-31329 # p : N94-29709 # p 209 N94-31329 # p : N94-29709 # p 209 N94-31320 # p : N94-29709 # p 209 N94-31360 # p : N94-29709 # p 209 N94-31320 # p : N94-29709 # p 209 N94-31320 # p : N94-29709 # p 209 N94-31320 # p : N94-29709 # p 209	N94-28858	#	p 213	N94-29968 * #	p 210
N94-28884 # p 207 N94-30029 # p 2 N94-28892 p 213 N94-30030 # p 2 N94-28902 # p 222 N94-30132 # p 2 N94-28902 # p 222 N94-30132 # p 2 N94-28912 # p 214 N94-30186 * p 2 N94-28996 # p 222 N94-30186 * # p 2 N94-28997 # p 223 N94-30107 # p 2 N94-28997 # p 223 N94-30210 * # p 2 N94-29029 p 223 N94-30300 p 2 N94-29034 # p 223 N94-30300 p 2 N94-29034 # p 223 N94-30300 p 2 N94-29034 # p 214 N94-30300 p 2 N94-29034 # p 214 N94-30455 * # p 2 N94-29081 # p 207 N94-30455 * # p 2 N94-29081 # p 207 N94-30455 * # p 2 N94-29082 # p 208 N94-30457 * # p 2 N94-29083 # p 208 N94-30457 * # p 2 N94-2916 # p 214 N94-30456 * # p 2 N94-2916 # p 214 N94-30456 * # p 2 N94-29150 # p 214 N94-30457 * # p 2 N94-29150 # p 214 N94-30457 * # p 2 N94-29150 # p 214 N94-30457 * # p 2 N94-29150 # p 214 N94-30456 * # p 2 N94-29150 # p 214 N94-30456 * # p 2 N94-29150 # p 215 N94-30607 # p 2 N94-29150 # p 208 N94-30607 # p 2 N94-29190 p 209 N94-31294 # p 2 N94-29190 p 209 N94-31294 # p 2 N94-29100 # p 224 N94-31323	N94-28860	#	p 219	N94-30000	p 224
N94-28884 # p 207 N94-30029 # p 2 N94-28892 p 213 N94-30030 # p 2 N94-28902 # p 222 N94-30132 # p 2 N94-28902 # p 222 N94-30132 # p 2 N94-28912 # p 214 N94-30186 * p 2 N94-28996 # p 222 N94-30186 * # p 2 N94-28997 # p 223 N94-30107 # p 2 N94-28997 # p 223 N94-30210 * # p 2 N94-29029 p 223 N94-30300 p 2 N94-29034 # p 223 N94-30300 p 2 N94-29034 # p 223 N94-30300 p 2 N94-29034 # p 214 N94-30300 p 2 N94-29034 # p 214 N94-30455 * # p 2 N94-29081 # p 207 N94-30455 * # p 2 N94-29081 # p 207 N94-30455 * # p 2 N94-29082 # p 208 N94-30457 * # p 2 N94-29083 # p 208 N94-30457 * # p 2 N94-2916 # p 214 N94-30456 * # p 2 N94-2916 # p 214 N94-30456 * # p 2 N94-29150 # p 214 N94-30457 * # p 2 N94-29150 # p 214 N94-30457 * # p 2 N94-29150 # p 214 N94-30457 * # p 2 N94-29150 # p 214 N94-30456 * # p 2 N94-29150 # p 214 N94-30456 * # p 2 N94-29150 # p 215 N94-30607 # p 2 N94-29150 # p 208 N94-30607 # p 2 N94-29190 p 209 N94-31294 # p 2 N94-29190 p 209 N94-31294 # p 2 N94-29100 # p 224 N94-31323	N94-28861	#	p 222	N94-30028 #	p 216
N94-28897 # p 220 N94-30030 # p 2 N94-30132 # p 2 N94-28902 # p 222 N94-30132 # p 2 N94-28912 # p 214 N94-30180 p 3 N94-28912 # p 214 N94-30185 # p 3 N94-28997 # p 222 N94-30185 # p 3 N94-28997 # p 223 N94-30185 # p 3 N94-28997 # p 223 N94-30210 # p 2 N94-28997 # p 223 N94-30304 p 3 N94-28029 p 223 N94-30300 p 3 N94-28049 # p 214 N94-30320 p 3 N94-28049 # p 214 N94-30452 * # p 3 N94-28082 # p 207 N94-30455 * # p 3 N94-28082 # p 207 N94-30455 * # p 3 N94-28082 # p 207 N94-30455 * # p 3 N94-28082 # p 207 N94-30455 * # p 3 N94-28082 # p 207 N94-30455 * # p 3 N94-28082 # p 208 N94-30455 * # p 3 N94-28082 # p 208 N94-30457 * # p 3 N94-28082 # p 208 N94-30457 * # p 3 N94-28082 # p 208 N94-30457 * # p 3 N94-28082 # p 208 N94-30457 * # p 3 N94-28082 # p 208 N94-30457 * # p 3 N94-28116 # p 214 N94-30459 * # p 3 N94-28156 # p 208 N94-30460 * # p 2 N94-28156 # p 208 N94-30460 * # p 2 N94-28156 # p 208 N94-30460 * # p 2 N94-28150 # p 208 N94-30695 p 3 N94-30695 p 3 N94-30695 p 3 N94-28190 p 208 N94-30695 p 3 N94-28190 p 208 N94-30695 p 3 N94-28190 p 208 N94-30697 # p 2 N94-28191 # p 209 N94-31224 # p 2 N94-28131 # p 209 N94-31224 # p 2 N94-28131 # p 209 N94-31224 # p 2 N94-28190 # p 209 N94-31320 # p 2 N94-28190 # p 209 N9	N94-28884	#		N94-30029 #	p 217
N94-28992	N94-28887	#	p 220	N94-30030 #	p 217
N94-28902 # p 222 N94-30132 # p 2 N94-28912 # p 214 N94-30180 p 3 N94-28918 # p 222 N94-30186 * # p 2 N94-28996 # p 222 N94-30186 * # p 2 N94-28997 # p 223 N94-30210 * # p 2 N94-29027 p 220 N94-30304 p 2 N94-29029 p 223 N94-30300 p 3 N94-29034 # p 223 N94-30390 p 2 N94-29034 # p 214 N94-30453 * # p 2 N94-29031 # p 207 N94-30455 * # p 2 N94-29081 # p 207 N94-30455 * # p 2 N94-29082 # p 207 N94-30456 * # p 2 N94-29163 # p 214 N94-30456 * # p 2 N94-29164 # p 214 N94-30456 * # p 2 N94-29165 # p 208 N94-30457 * # p 2 N94-29164 # p 224 N94-30456 * # p 2 N94-29150 # p 214 N94-30456 * # p 2 N94-29150 # p 214 N94-30456 * # p 2 N94-29150 # p 214 N94-30456 * # p 2 N94-29150 # p 214 N94-30456 * # p 2 N94-29150 # p 214 N94-30456 * # p 2 N94-29150 # p 214 N94-30456 * # p 2 N94-29150 # p 214 N94-30456 * # p 2 N94-29150 # p 215 N94-30607 # p 2 N94-29110 p 208 N94-30697 # p 2 N94-29121 p 215 N94-30970 # p 2 N94-29131 # p 223 N94-30970 # p 2 N94-29131 # p 208 N94-30970 # p 2 N94-29131 # p 208 N94-30970 # p 2 N94-29131 # p 208 N94-30970 # p 2 N94-29131 # p 209 N94-31294 # p 2 N94-29169 # p 209 N94-31294 # p 2 N94-29100 # p 209 N94-31294 # p 2 N94-29100 # p 209 N94-31294 # p 2 N94-29700 # p 209 N94-31323 # p 2 N94-29700 # p 209 N94-31320 # p 2	N94-28892			N94-30122 *#	p 224
N94-28912 # p 214 N94-30180 p: N94-28918 # p 222 N94-30185 # p: N94-28996 # p 222 N94-30185 # p: N94-28997 # p 223 N94-30210 * # p: N94-28997 # p 223 N94-30210 * # p: N94-29029 p 223 N94-30304 p: N94-29034 # p 223 N94-30320 p: N94-30490 # p 214 N94-30492 p: N94-29081 # p 207 N94-30455 * # p: N94-29082 # p 208 N94-30455 * # p: N94-29082 # p 208 N94-30455 * # p: N94-29083 # p 223 N94-30457 * # p: N94-29082 # p 208 N94-30457 * # p: N94-29156 # p 214 N94-30459 * # p: N94-29156 # p 208 N94-30460 * # p: N94-29156 # p 208 N94-30460 * # p: N94-29156 # p 208 N94-30460 * # p: N94-29156 # p 208 N94-30607 # p: N94-29169 p 208 N94-30695 p: N94-30969 p: N94-29190 p 208 N94-30969 p: N94-29190 p 208 N94-30969 p: N94-29190 p 208 N94-30978 p: N94-29100 p 208 N94-30978 p: N94-29101 # p 209 N94-31224 # p: N94-29313 # p 220 N94-31294 # p: N94-29313 # p 209 N94-31224 # p: N94-29519 # p 209 N94-31294 # p: N94-29519 # p 209 N94-31294 # p: N94-29709 # p: N94-31302 # p: N94-29709 # p: N94-31302 # p: N94-29709 # p: N94-31302 # p: N94-29709 # p: N94-31323 # p: N94-29709 # p: N9	N94-28902	#		N94-30132 #	p 224
N94-28918 # p 222 N94-30185 # p : N94-28996 # p 222 N94-30186 * p : N94-28997 # p 223 N94-30210 * # p : N94-289027 p 220 N94-30304 p : N94-289029 p 223 N94-30320 p : N94-28003 # p 223 N94-30320 p : N94-28049 # p 214 N94-30320 p : N94-28049 # p 214 N94-30452 * # p : N94-28081 # p 207 N94-30455 * # p : N94-28082 # p 207 N94-30455 * # p : N94-28082 # p 207 N94-30455 * # p : N94-28082 # p 207 N94-30456 * # p : N94-28083 # p 208 N94-30456 * # p : N94-28083 # p 208 N94-30456 * # p : N94-2816 # p 214 N94-30468 * # p : N94-28150 # p 214 N94-30468 * # p : N94-28156 # p 208 N94-30468 * # p : N94-28156 # p 208 N94-30468 * # p : N94-28156 # p 208 N94-30461 * # p : N94-28156 # p 208 N94-30697 # p : N94-2816 # p 208 N94-30697 # p : N94-28189 p 208 N94-30697 # p : N94-28190 p 208 N94-30697 # p : N94-28190 p 208 N94-30697 # p : N94-2811 # p 215 N94-30970 # p : N94-28211 p 215 N94-30970 # p : N94-28313 # p 220 N94-31224 # p : N94-28313 # p 220 N94-31224 # p : N94-28519 # p 209 N94-31224 # p : N94-28708 # p 209 N94-31302 # p : N94-28709 # p 215 N94-31302 # p : N94-28709 # p 209 N94-31302 # p : N94-28709 # p 209 N94-31303 # p : N94-28709 # p 209 N94-31303 # p : N94-28709 # p 209 N94-31303 # p : N94-28701 # p 209 N94-31300 # p : N94-28701 # p 209 N94-31300 # p : N	N94-28912			N94-30180	p 211
N94-28996 # p 222 N94-30188 * # p 2 N94-28997 # p 223 N94-30210 * # p 2 N94-29027 p 220 N94-30304 p 2 N94-29029 p 223 N94-30320 p 2 N94-29034 # p 223 N94-30390 p 2 N94-29034 # p 214 N94-30453 * # p 2 N94-29081 # p 207 N94-30455 * # p 2 N94-29081 # p 207 N94-30455 * # p 2 N94-29082 # p 207 N94-30456 * # p 2 N94-29085 # p 208 N94-30456 * # p 2 N94-2916 # p 214 N94-30456 * # p 2 N94-2916 # p 214 N94-30456 * # p 2 N94-29150 # p 214 N94-30456 * # p 2 N94-29150 # p 214 N94-30456 * # p 2 N94-29150 # p 214 N94-30456 * # p 2 N94-29150 # p 214 N94-30456 * # p 2 N94-29150 # p 214 N94-30456 * # p 2 N94-29150 # p 214 N94-30456 * # p 2 N94-29150 # p 208 N94-30460 * # p 2 N94-29150 # p 208 N94-30607 # p 2 N94-29150 # p 208 N94-30607 # p 2 N94-29110 p 215 N94-30695 p 2 N94-29110 p 208 N94-30695 p 2 N94-29202 # p 223 N94-30798 p 2 N94-29313 # p 205 N94-30798 p 2 N94-29313 # p 206 N94-31294 # p 2 N94-29431 # p 207 N94-31294 # p 2 N94-29519 # p 208 N94-31294 # p 2 N94-29519 # p 209 N94-31294 # p 2 N94-29708 # p 209 N94-31294 # p 2 N94-29708 # p 209 N94-31323 # p 2 N94-29708 # p 209 N94-31323 # p 2 N94-29709 # p 215 N94-31323 # p 2 N94-29709 # p 224 N94-31323 # p 2 N94-29709 # p 209 N94-31329 # p 2	N94-28918	#		N94-30185 #	p 217
N94-29027	N94-28996	#		N94-30188 *#	p 224
N94-29027		#	p 223	N94-30210 *#	
N94-29039				N94-30304	p 225
N94-29034 # p 223 N94-30390 p 2 N94-29049 # p 214 N94-30452 * # p 214 N94-30453 * # p 2 N94-29081 # p 207 N94-30455 * # p 2 N94-29081 # p 207 N94-30455 * # p 2 N94-29082 # p 208 N94-30455 * # p 2 N94-29083 # p 208 N94-30456 * # p 2 N94-29093 p 223 N94-30456 * # p 2 N94-29093 p 223 N94-30456 * # p 2 N94-2915 # p 214 N94-30459 * # p 2 N94-2915 # p 220 N94-30460 * # p 2 N94-2915 # p 208 N94-30460 * # p 2 N94-2915 # p 208 N94-30607 # p 2 N94-2916 # p 208 N94-30695 p 2 N94-29189 p 208 N94-30695 p 2 N94-29189 p 208 N94-30699 p 2 N94-29190 p 208 N94-30969 p 2 N94-29190 p 208 N94-30969 p 2 N94-29190 p 208 N94-30969 p 2 N94-29190 p 208 N94-30970 # p 2 N94-29190 p 208 N94-30970 # p 2 N94-29190 p 208 N94-30970 # p 2 N94-29191 # p 209 N94-31224 # p 2 N94-29313 # p 2 D 208 N94-31224 # p 2 N94-29519 # p 209 N94-31291 # p 2 N94-29519 # p 209 N94-31291 # p 2 N94-29708 # p 209 N94-31302 # p 2 N94-29709 # p 215 N94-31323 # p 2 N94-29709 # p 215 N94-31323 # p 2 N94-29709 # p 2 N94-31323 # p 2 N94-29701 # p 2 N94-31323 # p 2 N94-29701 # p 2 N94-31323 # p 2 N94-29710 # p 2 N94-31323 # p 2 N94-29710 # p 2 N94-31323 # p 2 N94-29710 # p 2 N94-31323 # p 2 N94-31323 # p 2 N94-29710 # p 2 N94-31323 # p 2 N94-31323 # p 2 N94-29710 # p 2 N94-31323 # p 2 N94-31323 # p 2 N94-29710 # p 2 N94-31323 # p 2 N94-31323 # p 2 N94-29710 # p 2 N94-31323 # p 2 N94-31323 # p 2 N94-29710 # p 2 N94-31323 # p 2 N94-31323 # p 2 N94-29710 # p 2 N94-31323 # p 2 N94-31323 # p 2 N94-29710 # p 2 N94-31323 # p 2 N94-31323 # p 2 N94-29710 # p 2 N94-31323 # p 2 N	N94-29029			N94-30320	p 225
N94-29049 # p 214 N94-30422 p 2 N94-29081 # p 207 N94-30455 * p 2 N94-29082 # p 207 N94-30456 * # p 2 N94-29082 # p 207 N94-30456 * # p 2 N94-29085 # p 208 N94-30456 * # p 2 N94-29083 p 223 N94-30456 * # p 2 N94-29166 # p 214 N94-30459 * # p 2 N94-29150 # p 214 N94-30469 * # p 2 N94-29150 # p 214 N94-30460 * # p 2 N94-29150 # p 208 N94-30461 * # p 2 N94-29154 # p 208 N94-30697 # p 2 N94-29164 p 223 N94-30799 p 2 N94-29190 p 208 N94-30995 p 2 N94-29190 p 208 N94-30995 p 2 N94-29190 p 208 N94-309970 # p 2 N94-29211 p 215 N94-30970 # p 2 N94-29313 # p 220 N94-30978 p 2 N94-30978 p 2 N94-29431 # p 208 N94-30978 p 2 N94-29431 # p 208 N94-31244 # p 2 N94-29431 # p 208 N94-31244 # p 2 N94-29431 # p 209 N94-31243 # p 2 N94-29519 # p 209 N94-31291 # p 209 N94-31294 # p 2 N94-29708 # p 209 N94-31302 # p 2 N94-29708 # p 209 N94-31302 # p 2 N94-29708 # p 209 N94-31363 # p 2 N94-29701 # p 2	N94-29034	#		N94-30390	p 225
N94-29071	N94-29049	#		N94-30422	p 225
N94-29081 # p 207 N94-30455 * # p 2 N94-29082 # p 208 N94-30456 * # p 2 N94-29085 # p 208 N94-30456 * # p 2 N94-29085 # p 208 N94-30456 * # p 2 N94-29093 p 223 N94-30456 * # p 2 N94-2916 # p 214 N94-30456 * # p 2 N94-2915 # p 214 N94-30460 * # p 2 N94-2915 # p 208 N94-30461 * # p 2 N94-29156 # p 208 N94-30607 # p 2 N94-29169 p 208 N94-30695 p 2 N94-29189 p 208 N94-30695 p 2 N94-29190 p 208 N94-30695 p 2 N94-29190 p 208 N94-30969 p 2 N94-29190 p 208 N94-30969 p 2 N94-29190 p 208 N94-30978 p 2 N94-29302 # p 223 N94-30978 p 2 N94-29313 # p 220 N94-31195 # p 2 N94-29313 # p 209 N94-311224 # p 2 N94-29519 # p 209 N94-31294 # p 2 N94-29519 # p 209 N94-31291 # p 2 N94-2909 # p 209 N94-31294 # p 2 N94-29708 # p 209 N94-31302 # p 2 N94-29709 # p 215 N94-31323 # p 2 N94-31320 # p 2 N94-29709 # p 215 N94-31323 # p 2 N94-31320 # p 2 N	N94-29071			N94-30453 * #	p 217
N94-29085 # p 208 N94-30457 * # p 2 N94-29093 p 223 N94-30458 * # p 2 N94-29116 # p 214 N94-30460 * # p 2 N94-29150 # p 214 N94-30460 * # p 2 N94-29154 # p 200 N94-30461 * # p 2 N94-29156 # p 208 N94-30607 # p 2 N94-29164 p 223 N94-30607 # p 2 N94-29184 p 223 N94-30695 p 2 N94-29189 p 208 N94-30695 p 2 N94-29189 p 208 N94-30695 p 2 N94-29190 p 208 N94-30695 p 2 N94-29190 p 208 N94-30695 p 2 N94-29211 p 215 N94-30970 # p 2 N94-29302 # p 223 N94-30978 p 2 N94-29302 # p 220 N94-31195 # p 2 N94-29431 # p 209 N94-31195 # p 2 N94-29431 # p 2 N94-31294 # p 2 N94-29519 # p 2 N94-31294 # p 2 N94-29708 # p 2 N94-31294 # p 2 N94-29708 # p 2 N94-31302 # p 2 N94-29708 # p 2 N94-31363 # p 2 N94-29701 # p 2 N94-31363 # p 2 N94-29701 # p 2 N94-31363 # p 2 N94-29701 # p 2 N94-31363 # p 2 N94-29711 # p 2 N94-31363 * p 2 N94-31363 * p 2 N94-29711 # p 2 N94-31363 * p 2	N94-29081	#			
N94-29093 p 223 N94-30458 * # p 2 N94-29116 # p 214 N94-30450 * # p 2 N94-29150 # p 214 N94-30460 * # p 2 N94-29154 # p 220 N94-30461 * # p 2 N94-29156 # p 208 N94-3067 * # p 2 N94-29184 p 223 N94-30799 p 2 N94-29189 p 208 N94-30969 * p 2 p 2 N94-29190 p 208 N94-30969 * p 2 p 2 N94-29302 # p 223 N94-30970 * p 2 p 2 N94-29303 # p 220 N94-310970 * p 2 p 2 N94-29313 # p 200 N94-31125 * p 2 p 2 N94-29431 # p 215 N94-31224 * p 2 p 2 N94-29519 # p 209 N94-31243 * p 2 p 2 N94-29519 # p 209 N94-31291 * p 2 p 2 N94-29708 # p 209 N94-31294 * p 2 p 2 N94-29709 # p 209 N94-31302 * p 2 p 2 N94-29709 # p 209 N94-31323 * p 2 p 2 N94-297	N94-29082	#	p 207	N94-30456 * #	p 217
N94-29093 p 223 N94-30458 * # p 2 N94-29116 # p 214 N94-30450 * # p 2 N94-29150 # p 214 N94-30460 * # p 2 N94-29154 # p 220 N94-30461 * # p 2 N94-29156 # p 208 N94-3067 * # p 2 N94-29184 p 223 N94-30799 p 2 N94-29189 p 208 N94-30969 * p 2 p 2 N94-29190 p 208 N94-30969 * p 2 p 2 N94-29302 # p 223 N94-30970 * p 2 p 2 N94-29303 # p 220 N94-310970 * p 2 p 2 N94-29313 # p 200 N94-31125 * p 2 p 2 N94-29431 # p 215 N94-31224 * p 2 p 2 N94-29519 # p 209 N94-31243 * p 2 p 2 N94-29519 # p 209 N94-31291 * p 2 p 2 N94-29708 # p 209 N94-31294 * p 2 p 2 N94-29709 # p 209 N94-31302 * p 2 p 2 N94-29709 # p 209 N94-31323 * p 2 p 2 N94-297	194-29085	#	p 208	N94-30457 *#	p 218
N94-29116 # p 214 N94-30459 * # p 2 N94-29150 # p 214 N94-30460 * # p 2 N94-29154 # p 220 N94-30461 * # p 2 N94-29156 # p 208 N94-30607 # p 2 N94-29184 p 223 N94-30769 p 2 N94-29189 p 208 N94-30895 p 2 N94-2910 p 208 N94-30969 p 2 N94-29211 p 215 N94-30970 # p 2 N94-29302 # p 223 N94-30970 # p 2 N94-29313 # p 220 N94-31195 # p 2 N94-29401 # p 208 N94-31224 # p 3 N94-29519 # p 209 N94-31224 # p 3 N94-29519 # p 209 N94-31294 # p 2 N94-29708 # p 209 N94-31302 # p 2 N94-29709 # p 2	194-29093		p 223	N94-30458 *#	p 218
N84-29150 # D 214 N94-30460 ° # P 2 N94-29154 # P 220 N94-30461 ° # P 2 N94-29156 # P 208 N94-30607 # P 2 N94-29184 P 223 N94-30895 P P 2 N94-29189 P 208 N94-30895 P P 2 N94-29211 P 215 N94-30970 # P 2 N94-29302 # P 223 N94-30978 P P 2 N94-29313 # P 220 N94-31195 # P 2 N94-29431 # P 208 N94-31224 # P 2 N94-29431 # P 209 N94-31243 # P 2 N94-29519 # P 209 N94-31243 # P 2 N94-29519 # P 209 N94-31294 # P 2 N94-29708 # P 209 N94-31302 # P 2 N94-29709 # P 2 N94-31323 # P 2 N94-29709 # P 2 N94-31363 # P 2 N94-29711<	194-29116	#	p 214	N94-30459 *#	p 218
N94-29156 # p 208 N94-30607 # p 20 N94-29184 p 223 N94-30799 p 2 N94-29189 p 208 N94-30895 p 2 N94-29190 p 208 N94-30969 p 2 N94-29302 # p 223 N94-30970 # p 2 N94-29302 # p 223 N94-30978 p 2 N94-29313 # p 220 N94-31195 # p 2 N94-29401 * m p 208 N94-31224 # p 2 N94-29519 # p 209 N94-31243 # p 2 N94-29519 # p 209 N94-31291 # p 2 N94-29708 # p 209 N94-31294 # p 2 N94-29709 # p 209 N94-31302 # p 2 N94-29709 # p 209 N94-31323 # p 2 N94-29710 # p 224 N94-31383 # p 2 N94-29711 # p 209 N94-31383 # p 2	N94-29150	#		N94-30460 * #	p 218
N94-29156 # p 208 N94-30607 # p 20 N94-29184 p 223 N94-30799 p 2 N94-29189 p 208 N94-30895 p 2 N94-29190 p 208 N94-30969 p 2 N94-29302 # p 223 N94-30970 # p 2 N94-29302 # p 223 N94-30978 p 2 N94-29313 # p 220 N94-31195 # p 2 N94-29401 * m p 208 N94-31224 # p 2 N94-29519 # p 209 N94-31243 # p 2 N94-29519 # p 209 N94-31291 # p 2 N94-29708 # p 209 N94-31294 # p 2 N94-29709 # p 209 N94-31302 # p 2 N94-29709 # p 209 N94-31323 # p 2 N94-29710 # p 224 N94-31383 # p 2 N94-29711 # p 209 N94-31383 # p 2	194-29154	#	p 220	N94-30461 *#	p 211
N94-29189 p 208 N94-30895 p 2 N94-29190 p 208 N94-30969 p 2 N94-29211 p 215 N94-30970 # p 2 N94-29302 # p 223 N94-30978 p 2 N94-29313 # p 220 N94-31185 # p 2 N94-29431 # p 215 N94-31224 # p 2 N94-29431 # p 215 N94-31243 # p 2 N94-29431 # p 215 N94-31243 # p 2 N94-29519 # p 209 N94-31291 # p 2 N94-29708 # p 209 N94-31294 # p 2 N94-29708 # p 209 N94-31302 # p 2 N94-29709 # p 215 N94-31323 # p 2 N94-29710 # p 224 N94-31363 # p 2 N94-29711 # p 209 N94-31363 * p 2	N94-29156	#		N94-30607 #	p 211
N94-29190 p 208 N94-30969 p 2 N94-29211 p 215 N94-30970 # p 2 N94-29302 # p 223 N94-30970 # p 2 N94-29313 # p 220 N94-31195 # p 2 N94-29401 *# p 208 N94-31224 # p 2 N94-29431 # p 215 N94-31224 # p 2 N94-29648 # p 209 N94-31291 # p 2 N94-29648 *# p 209 N94-31294 # p 2 N94-29708 # p 209 N94-31302 # p 2 N94-29709 # p 215 N94-31323 # p 2 N94-29709 # p 215 N94-31323 # p 2 N94-29711 # p 209 N94-31383 * p 2 N94-29711 # p 209 N94-31380 * # p 2	194-29184		p 223	N94-30799	p 226
N94-29211 p 215 N94-30970 # p 23 N94-29302 # p 223 N94-30978 p 2 N94-29303 # p 220 N94-31195 # p 2 N94-29401 * m p 208 N94-31224 # p 2 N94-29431 # p 215 N94-31243 # p 2 N94-29519 # p 209 N94-31291 # p 2 N94-29648 * m p 209 N94-31294 # p 2 N94-29708 # p 209 N94-31302 # p 2 N94-29709 # p 215 N94-31323 # p 2 N94-29710 # p 224 N94-31363 # p 2 N94-29711 # p 209 N94-31383 # p 2	194-29189		p 208	N94-30895	p 211
N94-29211 p 215 N94-30970 # p 23 N94-29302 # p 223 N94-30978 p 2 N94-29303 # p 220 N94-31195 # p 2 N94-29401 * m p 208 N94-31224 # p 2 N94-29431 # p 215 N94-31243 # p 2 N94-29519 # p 209 N94-31291 # p 2 N94-29648 * m p 209 N94-31294 # p 2 N94-29708 # p 209 N94-31302 # p 2 N94-29709 # p 215 N94-31323 # p 2 N94-29710 # p 224 N94-31363 # p 2 N94-29711 # p 209 N94-31383 # p 2	194-29190		p 208	N94-30969	p 221
N94-29302 # p 223	N94-29211			N94-30970 #	p 218
N94-29401 * # p 208 N94-31224 # p 2 N94-29431 # p 215 N94-31243 # p 2 N94-29519 # p 209 N94-31291 # p 2 N94-29648 * # p 209 N94-31294 # p 2 N94-29708 # p 209 N94-31302 # p 2 N94-29709 # p 215 N94-31323 # p 2 N94-29701 # p 224 N94-31383 * p 2 N94-29711 # p 209 N94-31380 * p 2	N94-29302	#		N94-30978	p 218
N94-29401 * # p 208 N94-31224 # p 2	N94-28313	#	p 220	N94-31195 #	p 219
N94-29431 # p 215 N94-31243 # p 2 N94-29519 # p 209 N94-31291 # p 2 N94-29648 * # p 209 N94-31294 # p 2 N94-29708 # p 209 N94-31302 # p 2 N94-29709 # p 215 N94-31323 # p 2 N94-29710 # p 224 N94-31363 # p 2 N94-29711 # p 209 N94-31380 * # p 2	194-29401	#	p 208	N94-31224 #	p 226
N94-29519 # p 209 N94-31291 # p 2 N94-29548 * # p 209 N94-31294 # p 2 N94-29708 # p 209 N94-31302 # p 2 N94-29709 # p 215 N94-31323 # p 2 N94-29710 # p 224 N94-31383 # p 2 N94-29711 # p 209 N94-31380 * # p 2	N94-29431	#	p 215	N94-31243 #	p 221
N94-29648 *# p 209 N94-31294 # p 2 N94-29708 # p 209 N94-31302 # p 2 N94-29709 # p 215 N94-31323 # p 2 N94-29710 # p 224 N94-31363 # p 2 N94-29711 # p 209 N94-31380 *# p 2		#		N94-31291 #	p 222
N94-29708 # p 209 N94-31302 # p 2 N94-29709 # p 215 N94-31323 # p 2 N94-29710 # p 224 N94-31363 # p 2 N94-29711 # p 209 N94-31380 * # p 2	194-29648			N94-31294 #	p 212
N94-29709 # p 215 N94-31323 # p 2 N94-29710 # p 224 N94-31363 # p 2 N94-29711 # p 209 N94-31380 * # p 2				N94-31302 #	p 228
194-29710 # p 224 N94-31363 # p 2 194-29711 # p 209 N94-31380 * # p 2	194-29709		p 215	N94-31323 #	p 219
194-29711 # p 209 N94-31380 ° # p 2					
194-29712 # p 209					
194-29713 # p 210					
194-29715 # p 220					

N94-29716

N94-29717

N94-29729 p 224 N94-29783 *# p 210

N94-29718 #

p 221

p 215

p 215

AVAILABILITY OF CITED PUBLICATIONS

OPEN LITERATURE ENTRIES (A94-10000 Series)

Inquiries and requests should be addressed to: CASI, 800 Elkridge Landing Road, Linthicum Heights, MD 21090-2934. Orders are also taken by telephone, (301) 621-0390, e-mail, help@sti.nasa.gov, and fax, (301) 621-0134. Please refer to the accession number when requesting publications.

STAR ENTRIES (N94-10000 Series)

One or more sources from which a document announced in *STAR* is available to the public is ordinarily given on the last line of the citation. The most commonly indicated sources and their acronyms or abbreviations are listed below, and their addresses are listed on page APP-3. If the publication is available from a source other than those listed, the publisher and his address will be displayed on the availability line or in combination with the corporate source line.

- Avail: CASI. Sold by the NASA Center for AeroSpace Information. Prices for hard copy (HC) and microfiche (MF) are indicated by a price code following the letters HC or MF in the STAR citation. Current values for the price codes are given in the tables on page APP-5.
 - NOTE ON ORDERING DOCUMENTS: When ordering publications from CASI, use the N accession number or other report number. It is also advisable to cite the title and other bibliographic identification.
- Avail: SOD (or GPO). Sold by the Superintendent of Documents, U.S. Government Printing Office, in hard copy.
- Avail: BLL (formerly NLL): British Library Lending Division, Boston Spa, Wetherby, Yorkshire, England. Photocopies available from this organization at the price shown. (If none is given, inquiry should be addressed to the BLL.)
- Avail: DOE Depository Libraries. Organizations in U.S. cities and abroad that maintain collections of Department of Energy reports, usually in microfiche form, are listed in *Energy Research Abstracts*. Services available from the DOE and its depositories are described in a booklet, *DOE Technical Information Center Its Functions and Services* (TID-4660), which may be obtained without charge from the DOE Technical Information Center.
- Avail: ESDU. Pricing information on specific data, computer programs, and details on Engineering Sciences Data Unit (ESDU) topic categories can be obtained from ESDU International Ltd. Requesters in North America should use the Virginia address while all other requesters should use the London address, both of which are on page APP-3.
- Avail: Fachinformationszentrum Karlsruhe. Gesellschaft für wissenschaftlich-technische Information mbH 76344 Eggenstein-Leopoldshafen, Germany.
- Avail: HMSO. Publications of Her Majesty's Stationery Office are sold in the U.S. by Pendragon House, Inc. (PHI), Redwood City, CA. The U.S. price (including a service and mailing charge) is given, or a conversion table may be obtained from PHI.
- Avail: Issuing Activity, or Corporate Author, or no indication of availability. Inquiries as to the availability of these documents should be addressed to the organization shown in the citation as the corporate author of the document.
- Avail: NASA Public Document Rooms. Documents so indicated may be examined at or purchased from the National Aeronautics and Space Administration (JBD-4), Public Documents Room (Room 1H23), Washington, DC 20546-0001, or public document rooms located at NASA installations, and the NASA Pasadena Office at the Jet Propulsion Laboratory.

- Avail: NTIS. Sold by the National Technical Information Service. Initially distributed microfiche under the NTIS SRIM (Selected Research in Microfiche) are available. For information concerning this service, consult the NTIS Subscription Section, Springfield, VA 22161.
- Avail: Univ. Microfilms. Documents so indicated are dissertations selected from *Dissertation Abstracts* and are sold by University Microfilms as xerographic copy (HC) and microfilm. All requests should cite the author and the Order Number as they appear in the citation.
- Avail: US Patent and Trademark Office. Sold by Commissioner of Patents and Trademarks, U.S. Patent and Trademark Office, at the standard price of \$1.50 each, postage free.
- Avail: (US Sales Only). These foreign documents are available to users within the United States from the National Technical Information Service (NTIS). They are available to users outside the United States through the International Nuclear Information Service (INIS) representative in their country, or by applying directly to the issuing organization.
- Avail: USGS. Originals of many reports from the U.S. Geological Survey, which may contain color illustrations, or otherwise may not have the quality of illustrations preserved in the microfiche or facsimile reproduction, may be examined by the public at the libraries of the USGS field offices whose addresses are listed on page APP-3. The libraries may be queried concerning the availability of specific documents and the possible utilization of local copying services, such as color reproduction.

FEDERAL DEPOSITORY LIBRARY PROGRAM

In order to provide the general public with greater access to U.S. Government publications, Congress established the Federal Depository Library Program under the Government Printing Office (GPO), with 53 regional depositories responsible for permanent retention of material, inter-library loan, and reference services. At least one copy of nearly every NASA and NASA-sponsored publication, either in printed or microfiche format, is received and retained by the 53 regional depositories. A list of the regional GPO libraries, arranged alphabetically by state, appears on the inside back cover of this issue. These libraries are *not* sales outlets. A local library can contact a regional depository to help locate specific reports, or direct contact may be made by an individual.

PUBLIC COLLECTION OF NASA DOCUMENTS

An extensive collection of NASA and NASA-sponsored publications is maintained by the British Library Lending Division, Boston Spa, Wetherby, Yorkshire, England for public access. The British Library Lending Division also has available many of the non-NASA publications cited in *STAR*. European requesters may purchase facsimile copy or microfiche of NASA and NASA-sponsored documents, those identified by both the symbols # and * from ESA — Information Retrieval Service European Space Agency, 8-10 rue Mario-Nikis, 75738 CEDEX 15, France.

STANDING ORDER SUBSCRIPTIONS

NASA SP-7011 supplements and annual index are available from the NASA Center for AeroSpace Information (CASI) on standing order subscription. Standing order subscriptions do not terminate at the end of a year, as do regular subscriptions, but continue indefinitely unless specifically terminated by the subscriber.

ADDRESSES OF ORGANIZATIONS

British Library Lending Division Boston Spa, Wetherby, Yorkshire England

Commissioner of Patents and Trademarks U.S. Patent and Trademark Office Washington, DC 20231

Department of Energy Technical Information Center P.O. Box 62 Oak Ridge, TN 37830

European Space Agency-Information Retrieval Service ESRIN Via Galileo Galilei 00044 Frascati (Rome) Italy

Engineering Sciences Data Unit International P.O. Box 1633 Manassas, VA 22110

Engineering Sciences Data Unit International, Ltd. 251-259 Regent Street London, W1R 7AD, England

Fachinformationszentrum Karlsruhe
Gesellschaft für wissenschaftlich-technische
Information mbH
76344 Eggenstein-Leopoldshafen, Germany

Her Majesty's Stationery Office P.O. Box 569, S.E. 1 London, England

NASA Center for AeroSpace Information 800 Elkridge Landing Road Linthicum Heights, MD 21090-2934

National Aeronautics and Space Administration Scientific and Technical Information Program (JTT) Washington, DC 20546-0001 National Technical Information Service 5285 Port Royal Road Springfield, VA 22161

Pendragon House, Inc. 899 Broadway Avenue Redwood City, CA 94063

Superintendent of Documents U.S. Government Printing Office Washington, DC 20402

University Microfilms A Xerox Company 300 North Zeeb Road Ann Arbor, MI 48106

University Microfilms, Ltd. Tylers Green London, England

U.S. Geological Survey Library National Center MS 950 12201 Sunrise Valley Drive Reston, VA 22092

U.S. Geological Survey Library 2255 North Gemini Drive Flagstaff, AZ 86001

U.S. Geological Survey 345 Middlefield Road Menlo Park, CA 94025

U.S. Geological Survey Library Box 25046 Denver Federal Center, MS914 Denver, CO 80225



SCAN Goes Electronic!

If you have NASA Mail or if you can access the Internet you can get biweekly issues of SCAN delivered to your desktop — absolutely free!

Electronic SCAN takes advantage of computer technology to alert you to the latest aerospace-related, worldwide scientific and technical information that has been published.

No more waiting while the paper copy is printed and mailed to you. You can review Electronic SCAN the same day it is released! And you get all 191 — or any combination of — subject areas of announcements with abstracts to browse at your leisure. When you locate a publication of interest, you can print the announcement or electronically add it to your publication order list.

Start your free access to Electronic SCAN today. Over 1,000 announcements of new reports, books, conference proceedings, journal articles . . . and more - delivered to your computer every two weeks.

Electronic SCAN. Timely. Flexible. Complete. Free!

For instant access via Internet:

ftp.sti.nasa.gov gopher.sti.nasa.gov listserv@sti.nasa.gov

For additional information:

e-mail: help@sti.nasa.gov

scan@sti.nasa.gov

(Enter this address on the "To" line. Leave the subject line blank and send. You will receive an automatic reply with instructions in minutes.)

phone: 301-621-0390 fax: 301-621-0134

write: NASA Access Help Desk NASA STI Program

NASA Center for AeroSpace Information

800 Elkridge Landing Road

Linthicum Heights, MD 21090-2934



CASI PRICE TABLES

STANDARD PRICE DOCUMENTS

PRICE CODE	NORTH AMERICAN PRICE	FOREIGN PRICE
A01	\$ 9.00	\$ 18.00
A02	12.50	25.00
A03	17.50	35.00
A04-A05	19.50	39.00
A06-A09	27.00	54.00
A10-A13	36.50	73.00
A14-A17	44.50	89.00
A18-A21	52.00	104.00
A22-A25	61.00	122.00
A99	Call For Price	Call For Price

MICROFICHE

PRICE CODE	NORTH AMERICAN PRICE	FOREIGN PRICE
A01	\$ 9.00	\$ 18.00
A02	12.50	25.00
A03	17.50	35.00
A04	19.50	39.00
A06	27.00	54.00
A10	36.50	73.00

IMPORTANT NOTICE

CASI Shipping and Handling Charges
U.S.—ADD \$3.00 per TOTAL ORDER
Canada and Mexico—ADD \$3.50 per TOTAL ORDER
All Other Countries—ADD \$7.50 per TOTAL ORDER
Does NOT apply to orders
requesting CASI RUSH HANDLING.
CASI accepts most credit/charge cards.

NASA Center for AeroSpace Information

800 Elkridge Landing Road Linthicum Heights, MD 21090-2934 Telephone: (301) 621-0390 E-mail: help@sti.nasa.gov

Fax: (301) 621-0134

Rev. 2/94 APP-5

REPORT DOCUMENT PAGE

1.	Report No.	2. Government Acc	cession No.	3.	Recipient's Catalog	No.
	NASA SP-7011 (390)				- <u></u>	
4.	Title and Subtitle			5.	Report Date	
	Aerospace Medicine and B	iology			July 1994	
	A Continuing Bibliography	(Supplement 390))	6.	Performing Organiz	ation Code
L				_[JTT	
7.	Author(s)			8.	Performing Organiz	ation Report No.
<u> </u>				10.	Work Unit No.	
9.	Performing Organization Name and A		_			
	NASA Scientific and Techn	ical Information	Program	11.	Contract or Grant N	lo.
12.	Sponsoring Agency Name and Addre	ess		13.	Type of Report and	Period Covered
	National Aeronautics and S		ation		Special Public	ation
	Washington, DC 20546-000	•		14.	Sponsoring Agency	Code
				1	. 55,	
15.	Supplementary Notes					
16.	Abstract					
	This report lists 102 reports	articles and oth	ner documents re	cent	v announced i	the NASA
	STI Database.	,			,	
	<u>.</u> -					
						:
17.	Key Words (Suggested by Author(s))		18. Distribution State	ement		
	Aerospace Medicine		Unclassified	d - Uı	nlimited	
	Bibliographies		Subject Cat	tegor	y - 52	
	Biological Effects]			
19.	Security Classif. (of this report)	20. Security Classif	-	21.	No. of Pages	22. Price
	Unclassified	Unclassifie	d	<u> </u>	58	A04/HC

FEDERAL REGIONAL DEPOSITORY LIBRARIES

ALABAMA Auburn univ. At montgomery LIBRARY

Documents Dept. 7300 University Dr. Montgomery, AL 36117-3596 (205) 244-3650 Fax: (205) 244-0678

UNIV. OF ALABAMA Amelia Gayle Gorgas Library

Govt. Documents 3ox 870266 30x 870266 Tuscaloosa, AL 35487-0266 (205) 348-6046 Fax: (205) 348-8833

ARIZONA DEPT. OF LIBRARY, ARCHIVES, AND PUBLIC RECORDS

ederal Documents
Third Floor State Capitol
West Washington Phoenix, AZ 85007 (602) 542-4121 Fax: (602) 542-4400, 542-4500

ARKANSAS ARKANSAS STATE LIBRARY

State Library Services One Capitol Mall Little Rock, AR 72201 (501) 682-2869

CALIFORNIA

CALIFONNA CALIFONNA STATE LIBRARY Govt. Publications Section 914 Capitol Mall - P.O. Box 942837 Sacramento, CA 94237-0001 (916) 322-4572 Fax: (916) 324-8120

COLORADO UNIV. OF COLORADO - BOULDER Norlin Library

Govt. Publications Campus Box 184 Boulder, CO 83309-0184 (303) 492-8834 Fax: (303) 492-2185

DENVER PUBLIC LIBRARY

Govt. Publications Dept. BS/GPD 1357 Broadway Denver, CO 80203 (303) 571-2135

CONNECTICUT CONNECTICUT STATE LIBRARY

231 Capitol Avenue Hartford, CT 06106 (203) 566-4971 Fax: (203) 566-3322

FLORIDA UNIV. OF FLORIDA LIBRARIES

Documents Dept. Library West Gainesville, FL 32611-2048 (904) 392-0366 Fax: (904) 392-7251

GEORGIA
UNIV. OF GEORGIA LIBRARIES
Govt. Documents Dept.

Jackson Street Athens, GA 30602 (404) 542-8949 Fax: (404) 542-6522

HAWAII UNIV. OF HAWAII

Hamilton Library
Govt. Documents Collection 2550 The Mall Honolulu, HI 96822

(808) 948-8230 Fax: (808) 956-5968

IDAHO UNIV. OF IDAHO LIBRARY Documents Section Moscow, ID 83843

(208) 885-6344 Fax: (208) 885-6817

ILLINOIS ILLINOIS STATE LIBRARY

Reference Dept. 300 South Second Springfield, IL 62701-1796 (217) 782-7596 Fax: (217) 524-0041

INDIANA

INDIANA STATE LIBRARY Serials/Documents Section

140 North Senate Avenue Indianapolis, IN 46204 (317) 232-3678 Fax: (317) 232-3728

IOWA

UNIV. OF IOWA LIBRARIES

Govt. Publications Dept.
Washington & Madison Streets Iowa City, IA 52242 (319) 335-5926 Fax: (319) 335-5830

KANSAS

UNIV. OF KANSAS
Govt. Documents & Map Library 6001 Malatt Hall Lawrence, KS 66045-2800 (913) 864-4660 Fax: (913) 864-5380

KENTUCKY

UNIV. OF KENTUCKY LIBRARIES Govt. Publications/Maps Dept. Lexington, KY 40506-0039 (606) 257-3139 Fax: (606) 257-1563, 257-8379

LOUISIANA LOUISIANA STATE UNIV. Middleton Library

Govt. Documents Dept Baton Rouge, LA 70803 (504) 388-2570 Fax: (504) 388-6992

LOUISIANA TECHNICAL UNIV.

Prescott Memorial Library Govt. Documents Dept. 305 Wisteria Street Ruston, LA 71270-9985 (318) 257-4962 Fax: (318) 257-2447

TRI-STATE DOCUMENTS DEPOS.
Raymond H. Fogler Library
Govt. Documents & Microforms Dept. Univ. of Maine Orono, ME 04469 (207) 581-1680

MARYLAND

UNIV. OF MARYLAND
Hornbake Library
Govt. Documents/Maps Unit
College Park, MD 20742
(301) 454-3034 Fax: (301) 454-4985

MASSACHUSETTS
BOSTON PUBLIC LIBRARY
Govt. Documents Dept.
666 Boylston Street
Boston, MA 02117
(617) 536-5400 ext. 226
Fax: (617) 267-8273, 267-8248

MICHIGAN DETROIT PUBLIC LIBRARY

5201 Woodward Avenue Detroit, MI 48202-4093 (313) 833-1440, 833-1409 Fax: (313) 833-5039

LIBRARY OF MICHIGAN

Govt. Documents Unit P.O. Box 30007 Lansing, MI 48909 (517) 373-0640 Fax: (517) 373-3381

MINNESOTA UNIV. OF MINNESOTA

Wilson Library Govt. Publications Library 309 19th Avenue South Minneapolis, MN 55455 (612) 624-5073 Fax: (612) 626-9353

MISSISSIPPI UNIV. OF MISSISSIPPI J.D. Williams Library

Federal Documents Dept. 106 Old Gym Bldg. University, MS 38677 (601) 232-5857 Fax: (601) 232-5453

MISSOURI

UNIV. OF MISSOURI - COLUMBIA

Ellis Library Govt. Documents Columbia, MO 65201 (314) 882-6733 Fax: (314) 882-8044

MONTANA

UNIV. OF MONTANA

Maureen & Mike Mansfield Library Documents Div. Missoula, MT 59812-1195 (406)243-6700 Fax: (406) 243-2060

NEBRASKA

UNIV. OF NEBRASKA - LINCOLN
D.L. Love Memorial Library Documents Dept. Lincoln, NE 68588 (402) 472-2562

NEVADA

UNIV. OF NEVADA

Reno Library Govt. Publications Dept. Reno, NV 89557 (702) 784-6579 Fax: (702) 784-1751

NEW JERSEY

NEWARK PUBLIC LIBRARY U.S. Documents Div.

5 Washington Street -P.O. Box 630 Newark, NJ 07101-0630 (201) 733-7812 Fax: (201) 733-5648

NEW MEXICO

UNIV. OF NEW MEXICO General Library

Govt. Publications Dept. Albuquerque, NM 87131-1466 (505) 277-5441 Fax: (505) 277-6019

NEW MEXICO STATE LIBRARY

325 Don Gaspar Avenue Santa Fe, NM 87503 (505) 827-3826 Fax: (505) 827-3820

NEW YORK NEW YORK STATE LIBRARY

Documents/Gift & Exchange Section Federal Depository Program Cultural Education Center Albany, NY 12230 (518) 474-5563 Fax: (518) 474-5786

NORTH CAROLINA UNIV. OF NORTH CAROLINA CHAPLE HILL

CHAPEL HILL CB#3912, Davis Library BA/SS Dept. - Documents Chapel Hill, NC 27599 (919) 962-1151 Fax: (919) 962-0484

NORTH DAKOTA NORTH DAKOTA STATE UNIV. LIB. Documents Office

Fargo, ND 58105 (701) 237-8886 Fax: (701) 237-7138 In cooperation with Univ. of North Dakota, Chester Fritz Library Grand Forks

ОНЮ

STATE LIBRARY OF OHIO Documents Dept.

65 South Front Street Columbus, OH 43266 (614) 644-7051 Fax: (614) 752-9178

OKLAHOMA OKLAHOMA DEPT. OF LIBRARIES

U.S. Govt. Information Div. 200 NE 18th Street Oklahoma City, OK 73105-3298 (405) 521-2502, ext. 252, 253 Fax: (405) 525-7804

OKLAHOMA STATE UNIV.

Edmon Low Library Documents Dept. Stillwater, OK 74078 (405) 744-6546 Fax: (405) 744-5183

OREGON

PORTLAND STATE UNIV.

Millar Library 934 SW Harrison - P.O. Box 1151 Portland, OR 97207 (503) 725-3673 Fax: (503) 725-4527

PENNSYLVANIA STATE LIBRARY OF PENN.Govt. Publications Section

Walnut St. & Commonwealth Ave. -P.O. Box 1601 Harrisburg, PA 17105 (717) 787-3752

SOUTH CAROLINA CLEMSON UNIV.

Cooper Library Public Documents Unit Clemson, SC 29634-3001 (803) 656-5174 Fax: (803) 656-3025 In cooperation with Univ. of South Carolina, Thomas Cooper Library, Columbia

TENNESSEE
MEMPHIS STATE UNIV. LIBRARIES

Govt. Documents Memphis, TN 38152 (901) 678-2586 Fax: (901) 678-2511

TEXAS

TEXAS STATE LIBRARY

United States Documents
P.O. Box 12927 - 1201 Brazos
Austin, TX 78711
(512) 463-5455 Fax: (512) 463-5436

TEXAS TECH. UNIV. LIBRARY

Documents Dept. Lubbock, TX 79409 (806) 742-2268 Fax: (806) 742-1920

UTAH

WTAH STATE UNIV.
Merrill Library & Learning Resources
Center, UMC-3000
Documents Dept. Logan, UT 84322-3000 (801) 750-2684 Fax: (801) 750-2677

VIRGINIA

UNIV. OF VIRGINIA

Aldermman Library Govt. Documents Charlottesville, VA 22903-2498 (804) 824-3133 Fax: (804) 924-4337

WASHINGTON WASHINGTON STATE LIBRARY

Document Section Olympia, WA 98504-0111 (206) 753-4027 Fax: (206) 753-3546

WEST VIRGINIA **WEST VIRGINIA UNIV. LIBRARY**

Govt. Documents Section P.O. Box 6069 Morgantown, WV 26506 (304) 293-3640

WISCONSIN ST. HIST. SOC. OF WISCONSIN LIBRARY

Govt. Publications Section 816 State Street Madison, WI 53706 (608) 262-2781 Fax: (608) 262-4711 In cooperation with Univ. of Wisconsin -Madison, Memorial Library

MILWAUKEE PUBLIC LIBRARY

Documents Div. 814 West Wisconsin Avenue Milwaukee, WI 53233 (414) 278-2167 Fax: (414) 278-2137 POSTMASTER
Address Correction Requested
(Sections 137 and 159 Post Manual)

National Aeronautics and Space Administration Code JTT Washington, DC 20546-0001

Official Business Penalty for Private Use, \$300 BULK RATE
POSTAGE & FEES PAID
NASA
PERMIT No. G-27