NASA
THESAURUS
SUPPLEMENT

JANUARY 1985

A three part cumulative supplement to the 1982 edition of the NASA Thesaurus
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NASA

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NASA
National Aeronautics and Space Administration
Scientific and Technical Information Branch
1985
INTRODUCTION

The NASA Thesaurus Supplement replaces the former 6-Month Cumulative Listing of the NASA Thesaurus Changes. This cumulative supplement to the NASA Thesaurus 1982 edition, incorporates all of the information normally contained in the previous publication as well as two new features: complete hierarchies and access vocabulary. It is hoped that the additional information and the improved legibility will make this a more useful product than its predecessor. Subsequent issues of the supplement will be cumulative and will be issued every six months. For detailed information on the use of the NASA Thesaurus Supplement, consult the front matter of the NASA Thesaurus 1982 edition.

Users are encouraged to consult the online NASA Thesaurus for the most complete and up-to-date information. Addenda to old hierarchies in the 1982 edition of the NASA Thesaurus are not given because they are readily found in the online NASA Thesaurus. Inclusion of such a feature would have substantially increased the size of the publication. In using the hierarchies in the online NASA Thesaurus, users are cautioned that these hierarchies list broad and narrow terms and not their interrelationships. The online NASA Thesaurus does not show the exact relationship when there are more than three broad and/or narrow terms.

New terms to this issue are indicated with a bullet and larger type. Designed for browsability, each new term appears in the format of the following example:

- Earthnet

Many times cross references are later made postable terms. These are shown in Part 3. When new cross references are added to older terms, the term that is referred to is not listed unless it is also a new term. For older terms check the printed or the online NASA Thesaurus.

Any comments or suggestions about this publication, including suggestions for new terms, should be directed to the Lexicographer, NASA Scientific and Technical Information Facility, P.O. Box 8757, BWI Airport, Maryland  21240.
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NASA THESAURUS SUPPLEMENT

PART 1

HIERARCHICAL LISTING

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GS COMMERCIAL AIRCRAFT
   EUROPEAN AIRBUS
   A-310 AIRCRAFT
RT INTERNATIONAL COOPERATION
   SWEEP WINGS

A-320 AIRCRAFT
GS COMMERCIAL AIRCRAFT
   EUROPEAN AIRBUS
   A-320 AIRCRAFT
RT INTERNATIONAL COOPERATION
   SWEEP WINGS

ACCOUNTING
   RT BUDGETING
   COSTS
   FINANCE

ACCRETION DISKS
   RT ASTROPHYSICS
   BINARY STARS
   BLACK HOLES (ASTRONOMY)
   DISKS (SHAPES)
   ECLIPSING BINARY STARS
   GALACTIC NUCLEI
   ROTATING DISKS
   STELLAR MASS ACCRETION

ACEE PROGRAM
   UF AIRCRAFT ENERGY EFFICIENCY PROGRAM
   ENERGY EFFICIENCY TRANSPORT
   GS PROGRAMS
   NASA PROGRAMS
   RT AIRCRAFT ENGINES
   ACEE PROGRAM
   COMBUSTION EFFICIENCY

ADA (PROGRAMMING LANGUAGE)
   GS LANGUAGES
   ADA (PROGRAMMING LANGUAGE)
   RT COMPUTER PROGRAMMING
   EMBEDDED COMPUTER SYSTEMS

AEROASSIST
   RT AEROBRAKING
   AEROCAPTURE
   AEROMANEUVERING
   ATMOSPHERIC ENTRY
   INTERPLANETARY TRANSFER ORBITS
   TRANSFER ORBITS

AEROBRAKING (CONT.)
   AEROMANEUVERING
   INTERPLANETARY TRANSFER ORBITS
   TRANSFER ORBITS

AEROCAPTURE
   RT AEROASSIST
   AEROBRAKING
   AEROCAPTURE
   AEROMANEUVERING
   ATMOSPHERIC ENTRY
   INTERPLANETARY TRANSFER ORBITS
   TRANSFER ORBITS

AEROELASTIC RESEARCH WINGS
   GS AIRFOILS
   WINGS
   AEROELASTIC RESEARCH WINGS
   STRUCTURAL DESIGN
   RT AIRCRAFT DESIGN

AGROPHYSICAL UNITS
   RT AGRICULTURE
   AGROSTARS PROJECT
   FARMLANDS
   LARGE AREA CROP INVENTORY
   EXPERIMENT

AIR START
   GS STARTING
   AIR START
   RT AIRCRAFT CONTROL
   AIRCRAFT ENGINES
   ENGINE CONTROL
   FLIGHT TESTS

AIRBORNE LASERS
   GS ONBOARD EQUIPMENT
   AIRBORNE LASERS
   STIMULATED EMISSION DEVICES
   LASERS
   AIRBORNE LASERS
   RT LASER APPLICATIONS
   LASER RANGE/FINDER
   REMOTE SENSORS
   SPACEBORNE LASERS

AIRCRAFT ENERGY EFFICIENCY PROGRAM
   USE ACEE PROGRAM

AIRCRAFT POWER SUPPLIES
   GS ELECTRIC POWER SUPPLIES
   AIRCRAFT POWER SUPPLIES
   RT AIRCRAFT EQUIPMENT
   AUXILIARY POWER SOURCES
   ELECTRIC GENERATORS
   POWER SUPPLIES

ALBERTA (CONT.)
   ALBERTA

ALLERDE METEORITE
   GS CELESTIAL BODIES
   METEORITES
   STONY METEORITES
   CHONDrites
   CARBONACEOUS CHONDrites
   ALLERDE METEORITE

AMPHITRITE ASTEROID
   GS CELESTIAL BODIES
   ASTEROID BELTS
   ASTEROIDS
   AMPHITRITE ASTEROID
   RT GALILEO PROJECT

ANIK SATELLITES
   GS CANADIAN SPACECRAFT
   ANIK SATELLITES
   ANIK 1
   ANIK 2
   ANIK 3
   SATELLITES
   SYNCHRONOUS SATELLITES
   ANIK SATELLITES
   ANIK 1
   ANIK 2
   ANIK 3
   RT CANADIAN SPACE PROGRAMS
   DELTA LAUNCH VEHICLE
   INTERNATIONAL COOPERATION

ANTISTATIC DEVICES
   USE STATIC DISCHARGERS

APES
   GS ANIMALS
   VERTEBRATES
   MAMMALS
   PRIMATES
   APES
   CHIMPANZEE

APL (PROGRAMMING LANGUAGE)
   GS LANGUAGES
   PROGRAMMING LANGUAGES
   APL (PROGRAMMING LANGUAGE)
   RT COMPUTER PROGRAMMING

ARABSAT
   GS SATELLITES
   ARTIFICIAL SATELLITES
   ARABSAT
   EARTH SATELLITES
   ARABSAT
   RT INTERNATIONAL COOPERATION

ARC CLOUDS
   GS CLOUDS
   CLOUDS (METEOROLOGY)
   CONVECTION CLOUDS
   CUMULONIMBUS CLOUDS
   ARC CLOUDS
   RT METEOROLOGY
   OBSERVATION AIRCRAFT
   SATELLITE OBSERVATION

ARIES SOUNDING ROCKET
   GS ROCKET VEHICLES
ASTROMASTS

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ARIES SOUNDING ROCKET

• ASTROMASTS
USE LONGERONS

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GS OBSERVATORIES
ASTRONOMICAL OBSERVATORIES
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OA 2
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FACILITY
SPARTAN SATELLITES
SATELLITES
ARTIFICIAL SATELLITES
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ASTRONOMICAL SATELLITES
RT ROSAT MISSION
SPACEDRONE ASTRONOMY

ASYMPTOTIC PROPERTIES
RT ASYMPOTOTES
ASYMPTOTIC METHODS
ASYMPTOTIC SERIES
DIFFERENTIAL EQUATIONS
INTEGRAL EQUATIONS
MATHEMATICAL MODELS

• ATLANTIS (ORBITER)
UF SPACE SHUTTLE ORBITER 104
GS TRANSPORTATION
SPACE TRANSPORTATION SYSTEM
SPACE SHUTTLE ORBITERS
ATLANTIS (ORBITER)
RT MANNED SPACE FLIGHT

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RECOVERABLE SPACECRAFT
REUSABLE SPACECRAFT
SPACE SHUTTLE MISSION 51-H
SPACE SHUTTLE MISSION 51-J
SPACECRAFT

ATMOSPHERIC CORRECTION
RT ATMOSPHERIC EFFECTS
CLOUDS (METEOROLOGY)
GEOMETRIC RECTIFICATION (IMAGERY)
IMAGE PROCESSING
INFRARED RADIOMETERS
RADIATIVE TRANSFER
SATELLITE IMAGERY
SPATIAL RESOLUTION

ATMOSPHERIC LOADING
USE POLLUTION TRANSPORT

• ATOMIC INTERACTIONS
RT ATOMIC ENERGY LEVELS
MOLECULAR STRUCTURE
QUANTUM MECHANICS

AUDIO DATA
RT AUDIO FREQUENCIES
=DATA
DATA TRANSMISSION

AUDIO SIGNALS
RT AUDIO FREQUENCIES
AUDITORY SIGNALS
SIGNAL PROCESSING
SIGNAL TRANSMISSION
= SIGNALS

AUTOMATED TRANSIT VEHICLES
GS SURFACE VEHICLES
AUTOMATED TRANSIT VEHICLES
AUTOMATED GUIDEWAY TRANSIT VEHICLES
RT CONVEYORS
ELECTRIC MOTOR VEHICLES
PASSENGERS
RAIL TRANSPORTATION
RAPID TRANSIT SYSTEMS
TRANSPORTATION
URBAN TRANSPORTATION
=VEHICLES

AUTUMN
GS SEASONS
AUTUMN
SUMMER
WINTER

• AV-8B AIRCRAFT
USE HARRIER AIRCRAFT

AWARDS
SN (EXCLUDES CONTACTS & GRANTS)
RT ASTRONAUTS
SCIENTISTS

B

BACKWARD DIFFERENCING
RT DIFFERENTIAL EQUATIONS
NUMERICAL STABILITY
PROBLEM SOLVING

BACKWARD FACING STEPS
RT REARWARD FACING STEPS
RT BOUNDARY LAYER FLOW
FLOW GEOMETRY
FLUID BOUNDARIES
REAL-TIME FLOW
RECIRCULATING FLOW
STAIR STEPS
= STEPS

BAHAMAS
GS LANDFORMS
ISLANDS
WEST INDIES
BAHAMAS
NATIONS
BAHAMAS

NASA THESAURUS SUPPLEMENT (PART 1)

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RT CARIBBEAN REGION

BALLOONING MODES
GS MODES
BALLOONING MODES
RT MAGNETOHYDRODYNAMIC STABILITY
PLASMA CONTROL
PLASMA EQUILIBRIUM
TEARING MODES (PLASMAS)

BAND RATIONING
GS IMAGE PROCESSING
BAND RATIONING
RT IMAGE ENHANCEMENT
MULTISPECTRAL BAND SCANNERS
REMOTE SENSING
SPECTRAL BANDS

• BANDGAP
USE ENERGY GAPS (SOLID STATE)

BANDSTOP FILTERS
GS ELECTROMAGNETIC WAVE FILTERS
ELECTRIC FILTERS
BANDSTOP FILTERS
RT ADAPTIVE FILTERS
BANDPASS FILTERS
BANDWIDTH
CRYSTAL FILTERS
HIGH PASS FILTERS
LOW PASS FILTERS
MICROFILTERS
MICROWAVE FILTERS
OPTICAL FILTERS
TRACKING FILTERS
WAVEGUIDE FILTERS

BARYON RESONANCE
GS PARTICLES
ELEMENTARY PARTICLES
PI-FLAVOURS
BARYON RESONANCE
RESONANCE
BARYON RESONANCE
RT BARYONS
HYPERONS

BENIN
UF DAHOMEY
GS NATIONS
RT BENIN

BETA INTERACTIONS
USE WEAK INTERACTIONS (FIELD THEORY)

• BIOCLIMATOLOGY
USE BIOMETEOROLOGY

BIOFEEDBACK
RT AEROSPACE MEDICINE
BIOCONTROL SYSTEMS
BLOOD PRESSURE
CONDITIONING (LEARNING)
FEEDBACK CONTROL
HEART RATE
HUMAN FACTORS ENGINEERING
PSYCHOLOGY
SENSORY FEEDBACK

• BIOMETEOROLOGY
GS METEOROLOGY
BIOMETEOROLOGY
RT COASTAL ECOLOGY
COASTAL PLAINS
ECOLOGY
MICROCLIMATOLOGY
NIGHT-TIME APPLICATIONS
PHENOLOGY

• BIOPROCESSING
RT AEROSPACE ENVIRONMENTS
BIOTECHNOLOGY
ELECTROPHORESIS
MICROGRAVITY APPLICATIONS
PHARMACOLOGY
REDUCED GRAVITY
SPACE PROCESSING
SPACEDRONE EXPERIMENTS
WEIGHTLESSNESS
ELECTRIC AIRCRAFT

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ELECTRIC FURNACES

GS HEATING EQUIPMENT

FURNACES

RT MATERIALS

SPACE PROCESSING

ELECTROCHROMISM

RT COLOR

DISPLAY DEVICES

ELECTRO-OPTICS

ELECTROCHEMISTRY

THIN FILMS

• ELECTROCONDUCTIVITY

USE ELECTRICAL RESISTIVITY

ELECTRODE MATERIALS

RT ANIONS

ANODIC COATINGS

CATHODIC COATINGS

CELL ANODES

CELL CA CATHODES

ELECTRODES

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PHOTOELECTRIC MATERIALS

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GS TELECOMMUNICATION

ELECTRONIC MAIL

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COMMUNICATION SATELLITES

COMPUTER NETWORKS

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GS DATA PROCESSING EQUIPMENT

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EMBEDDED COMPUTER SYSTEMS

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EMPENNAGE

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ENCKE COMET

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COMETS

ENCKE COMET

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USE ACEE PROGRAM

• ENSTROPHY

USE VORTICITY

• ENTERPRISE (ORBITER)

US SPACE SHUTTLE ORBITER 101

GS SPACE TRANSPORTATION

SPACE TRANSPORTATION SYSTEM

SPACE SHUTTLE ORBITERS

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REUSABLE SPACECRAFT

• EXPLORER 42 SATELLITE

USE UHURU SATELLITE

EXPLORER 44 SATELLITE

US SOLID 10 SATELLITE

GS SATELLITES

ARTIFICIAL SATELLITES

EXPLORER SATELLITES

EXPLORER 44 SATELLITE

EXPLORER 46 SATELLITE

USE UHURU SATELLITE

• EXPLOITATION DESIGN

SN (DESIGN OF EXPERIMENTS EXCLUDES PROTOTYPES)

UF DESIGN OF EXPERIMENTS

GS EXPLOITATION DESIGN

FACTORS DESIGN

RT COVARIANCE

DEGREES OF FREEDOM

= DESIGN FACTOR ANALYSIS

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= LOGIC

LOGIC PROGRAMMING

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FAR UV SPECTROSCOPIC EXPLORER

GS SATELLITES

ARTIFICIAL SATELLITES

EXPLORER SATELLITES

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HARDWARE

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MICROPROGRAMMING

NASA THESAURUS SUPPLEMENT (PART 1)

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RT CATALYSIS

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SYNTHETIC FUELS

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AILERONS

FLAPERONS

FLAPS (CONTROL SURFACES)

FLAPERONS

CONTROL SURFACES

AILERONS

FLAPERONS

FLAPS (CONTROL SURFACES)

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FLAVOR (PARTICLE PHYSICS)

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FLIGHT MANAGEMENT SYSTEMS

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AIR TRAFFIC CONTROL

AIRBORNE/SPACEBORNE COMPUTERS

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AUTOMATIC LANDING CONTROL

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COMPUTER TECHNIQUES

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FORMYL IONS

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HYDROXYL RADICALS

INTERSTELLAR CHEMISTRY

INTERSTELLAR MATTER

MOLECULAR IONS

NEGATIVE IONS

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FRACCTS

RT APPLICATIONS OF MATHEMATICS

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HALF SPACES

MATHEMATICS

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NASA THESAURUS SUPPLEMENT (PART 1)

LOCAL GROUP (ASTRONOMY)
- GS CELESTIAL BODIES
- GS GALAXIES
- GS GALACTIC CLUSTERS
- LOCAL GROUP (ASTRONOMY)
- GS ANDROMEDA GALAXIES
- RT BARRED GALAXIES
- COSMOLOGY
- DISK GALAXIES
- DWARF GALAXIES
- ELLIPTICAL GALAXIES
- SPIRAL GALAXIES
- VIRGO GALACTIC CLUSTER

LOGIC PROGRAMMING
- GS SOFTWARE ENGINEERING
- COMPUTER PROGRAMMING
- LOGIC DESIGN
- RT ARTIFICIAL INTELLIGENCE
- EXPERT SYSTEMS
- FUNCTIONAL PROGRAMMING
- FUZZY LOGIC

LOSS OF COOLANT
- GS COOLANT LOSS
- GS ACCIDENTS
- RT COOLANTS
- UF COOLANT LOSS
- UF LEAKAGE
- UF NUCLEAR REACTORS
- UF REACTOR MATERIALS

LOW INTENSITY X-RAY IMAGING SCOPE
- USE LUXISCOPES

LOW REYNOLDS NUMBER
- SN (RM BELOW 2,000)
- RT HIGH REYNOLDS NUMBER

LUNAR ATMOSPHERE
- GS LUNAR IONOSPHERE
- GS ENVIRONMENTS
- EXTRATERRESTRIAL ENVIRONMENTS
- LUNAR ENVIRONMENT
- LUNAR ATMOSPHERE
- GS SATELLITE ATMOSPHERES
- GS LUNAR ATMOSPHERE
- RT MOON
- USE PLANETARY ATMOSPHERES

Lyra Constellation
- GS CONSTELLATIONS
- USE LYRA

MADAGASCAR
- USE MALAGASY REPUBLIC

MAGELLAN MISSION
- GS SATELLITES
- ARTIFICIAL SATELLITES
- ESA SATELLITES
- MAGELLAN MISSION
- EARTH SATELLITES
- ESA SATELLITES
- MAGELLAN MISSION
- RT EXTREME ULTRAVIOLET RADIATION
- FAR ULTRAVIOLET RADIATION
- SPACEBORNE ASTRONOMY

MAGNETIC BEARINGS
- GS BEARINGS
- MAGNETIC BEARINGS
- RT LEVITATION
- MAGNETIC SUSPENSION

MAGNETIC ENERGY STORAGE
- GS ENERGY STORAGE
- MAGNETIC ENERGY STORAGE
- RT ENERGY TECHNOLOGY
- MAGNET COILS
- MAGNETIC FIELDS

MAGNETIC ENERGY STORAGE (CONT.)
- USE MAGNETIC PERMEABILITY

MAGNETIC SUSCEPTIBILITY
- USE MAGNETIC PERMEABILITY

MAGSAT B SATELLITE
- GS SATELLITES
- ARTIFICIAL SATELLITES
- MAGSAT B SATELLITE
- EARTH SATELLITES
- MAGSAT B SATELLITE
- SCIENTIFIC SATELLITES
- MAGNETIC SUSCEPTIBILITY

MANNED MANEUVERING UNITS
- GS EXTRAVEHICULAR MOBILITY UNITS
- USE SPACE EXPLORATION
- GS SPACE EXPLORATION
- ARTIST MANEUVERING
- SPACE SUITS

MAPPING
- USE REMOTE SENSING

MARCONI CONVERSION
- GS CONVERSION
- MARCONI CONVERSION
- RT CONDUCTIVE FLOW
- FREE CONDUCTION
- INTERFACIAL TENSION
- LOW GRAVITY MANUFACTURING
- MELTS (CRYSTAL GROWTH)
- REDUCED GRAVITY
- SPACE PROCESSING

MARECS MARITIME SATELLITES
- GS ESA SPACECRAFT
- EARTH SATELLITES
- ESA SATELLITES
- MARECS MARITIME SATELLITES
- SPACEBORNE EXPLORATION
- SPACE EXPLORATION
- MARITIME SATELLITES
- SPACE EXPLORATION
- MARITIME SPACECRAFT
- SPACEBORNE EXPLORATION
- MARECS MARITIME SATELLITES
- SPACE EXPLORATION
- MARITIME SATELLITES
- SPACE EXPLORATION
- MARITIME SPACECRAFT
- SPACEBORNE EXPLORATION
- MARECS MARITIME SATELLITES
- SPACE EXPLORATION
- MARITIME SATELLITES
- SPACE EXPLORATION
- MARITIME SPACECRAFT

MILANKOVITCH THEORY
- USE CLIMATOLOGY

MILANKOVITCH THEORY
- USE CLIMATOLOGY

MEMORY (COMPUTERS)
- RT ARCHITECTURE (COMPUTERS)
- COMPUTER DESIGN
- COMPUTER STORAGE DEVICES
- COMPUTER TECHNOLOGY
- COMPOSITE MATERIALS
- ELECTRONIC DEVICES
- MAGNETIC DISKS
- MEMORY SYSTEMS

MESH (MATHEMATICS)
- USE COMPUTATIONAL GRIDS

MESON RESONANCE
- GS PARTICLES
- ELEMENTARY PARTICLES
- ACCELERATORS
- BOSONS
- MESONS
- RESONANCE
- NUCLEAR PARTICLES
- BOSONS
- MESONS
- RESONANCE
- X MESONS

METAL NITRIDES
- GS NITRIDE COMPOUNDS
- USE NITRIDE COMPOUNDS

METALLICITY
- RT ABUNDANCE
- CHEMICAL ANALYSIS
- CHEMICAL COMPOSITION
- GALACTIC CLUSTERS
- GALAXIES
- GLOBAL CLUSTERS
- HYDROGEN
- INTERSTELLAR MATTER
- MASS RATIOS
- METAL STARS
- METALS
- SPECTROSCOPIC ANALYSIS
- STAR CLUSTERS

METEOROID TECHNOLOGY SATELLITE
- USE EXPLORER 46 SATELLITE

MICROGRAVITY
- USE REDUCED GRAVITY

MICROGRAVITY APPLICATIONS
- SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)
- RT BIOENGINEERING
- BIOSPHERE
- BIOSPHERE II
- ELECTROPHORESIS
- LOW GRAVITY MANUFACTURING
- SPACE COMMERCIALIZATION
- SPACE MANUFACTURING

MICROMECHANICS
- USE COMPOSITE MATERIALS
- CRACK PROPAGATION
- FRACTURE MECHANICS
- MECHANICAL PROPERTIES
- MICROSTRUCTURE
- REINFORCING FIBERS

MILANKOVITCH THEORY
- USE CLIMATOLOGY
NASA THESAURUS SUPPLEMENT (PART 1)

OPTICAL COMPUTERS-(CONT.)
  OPTICAL EQUIPMENT
  OPTICAL MEMORY (DATA STORAGE)

OPTICAL DISKS
  GS  PERIPHERAL EQUIPMENT (COMPUTERS)
  COMPUTER STORAGE DEVICES

OPTICAL DISKS
  RT  DATA STORAGE
  LASER APPLICATIONS
  OPTICAL DATA PROCESSING
  OPTICAL EQUIPMENT
  OPTICAL MEMORY (DATA STORAGE)
  VIDEO DISKS

ORATORY
  USE  PUBLIC SPEAKING

ORBITAL MANEUVERING VEHICLES
  RT  ORBIT TRANSFER VEHICLES
  ORBITAL SERVICING
  POWER MODULES (STS)
  REMOTELY PILOTED VEHICLES
  SATELLITES
  SPACECRAFT

ORIGIN OF PLASMAS IN EARTH NEIGHBORHOOD
  USE  OPEN PROJECT

OSCILLATOR STRENGTHS
  RT  ASSOCIATION SPECTRA
  ABSORPTIVITY
  ELECTRON OSCILLATIONS
  ELECTRON TRANSITIONS
  LINE SPECTRA
  MOLECULAR OSCILLATIONS
  MOLECULAR OSCILLATORS
  OSCILLATORS
  SPECTRAL LINE WIDTH

PARTICLE LADEN JETS
  RT  FUEL FLOW
  JET FLOW
  PARTICLES
  TURBULENT FLOW

PAYLOAD TRANSFER
  RT  ORBITAL SERVICING
  PAYLOAD RETRIEVAL (STS)
  SPACE MAINTENANCE

PBB
  USE  POLYBROMINATED BIPHENYLS

PERSONAL COMPUTERS
  GS  DATA PROCESSING EQUIPMENT
  COMPUTERS
  DIGITAL COMPUTERS
  MICROCOMPUTERS
  PERSONAL COMPUTERS
  COMPUTER TECHNIQUES

PHOTOCYCLOMETRY
  USE  PHOTOGRAMMETRY

PIONEER 12 SPACE PROBE
  USE  PIONEER VENUS SPACECRAFT

PLANETARY RINGS
  GS  CELESTIAL BODIES
  PLANETARY RINGS
  JUPITER RINGS
  SATURN RINGS
  RT  PLANETARY ATMOSPHERES
  PLANETS
  Planets
  URANUS RINGS

PLASMA ANTENNAS
  GS  ANTENNAS
  PLASMA ANTENNAS
  RT  ANTENNA DESIGN
  ANTENNA RADIATION PATTERNS
  PLASMA CYLINDERS
  SPACECRAFT COMMUNICATION

PLASMA BUBBLES
  RT  F REGION

PLASMA BUBBLES-(CONT.)
  PLASMA DENSITY

POLAR CUSPS
  RT  AERONOMY
  GEOMAGNETIC LATITUDE
  GEOMAGNETIC TAIL
  GEOMAGNETISM
  GEOPHYSICS
  INTERPLANETARY SPACE
  LINES OF FORCE
  MAGNETIC FIELD CONFIGURATIONS
  MAGNETIC FIELDS
  MAGNETOPAUSE
  MAGNETOSPHERE
  PLANETARY MAGNETIC FIELDS
  POLAR REGIONS
  SPACE PLASMAS

POLARIMETRY
  GS  POLARIMETRY
  PLASMAS

POLYBROMINATED BIPHENYLS
  USE  POLYBROMINATED BIPHENYLS

POSEIDON SATELLITE
  GS  SATELLITES
  ARTIFICIAL SATELLITES
  POSEIDON SATELLITE

POWER FACTOR CONTROLLERS
  GS  CONTROLLERS
  POWER FACTOR CONTROLLERS
  CURRENT REGULATORS
  ELECTRIC MOTORS
  ENERGY CONSERVATION
  ENERGY CONVERSION EFFICIENCY
  INDUCTION MOTORS
  POWER EFFICIENCY
  VOLTAGE REGULATORS

PRE-MAIN SEQUENCE STARS
  GS  CELESTIAL BODIES
  STARS
  MAIN SEQUENCE STARS
  PRE-MAIN SEQUENCE STARS
  STELLAR EVOLUTION

PREPROCESSING
  RT  DATA PROCESSING
  DATA REDUCTION
  IMAGE PROCESSING

PRINCE EDWARD ISLAND
  GS  LANDFORMS
  ISLANDS
  PRINCE EDWARD ISLAND
  NATIONS
  CANADA
  PRINCE EDWARD ISLAND

PRINCIPAL COMPONENTS ANALYSIS
  RT  IMAGE PROCESSING
  IMAGING TECHNIQUES
  KARHUNEN-LOEVE EXPANSION
  PATTERN RECOGNITION

PROCEDURES
  USE  CONFERENCES

PROTOCOL (COMPUTERS)
  RT  CHANNELS (DATA TRANSMISSION)
  COMMUNICATION NETWORKS
  COMPUTER NETWORKS
  DATA LINKS
  IMAGE PROCESSING
  DATA TRANSMISSION
  PACKET SWITCHING

PSEUDOPOTENTIALS
  GS  IMPURITIES

RECTANGULAR WAVEGUIDES

Q

QUANTUM ELECTRONICS
  RT  ELECTROCHEMICAL REACTIONS
  LASERS
  QUANTUM MECHANICS
  QUANTUM THEORY

QUERY LANGUAGES
  GS  LANGUAGES
  COMMAND LANGUAGES
  QUERY LANGUAGES
  RT  INFORMATION RETRIEVAL

R

RADARSAT
  GS  CANADIAN SPACECRAFT
  RADARSAT
  RT  CANADIAN SPACE PROGRAMS
  SYNTHETIC APERTURE RADAR

RADIATION MEDICINE
  USE  NUCLEAR MEDICINE

RADIOCARDIOGRAPHY
  GS  BIOMEDICAL ENGINEERING
  BIOMETRICS
  RADIOCARDIOGRAPHY
  CARDIOLOGY
  RADIOSOFTWARE
  RT  CARDIOLOGY

RAYLEIGH-BENARD CONVECTION
  GS  CONVECTION
  FREE CONVECTION
  RAYLEIGH-BENARD CONVECTION
  FLUID FLOW
  CONVECTIVE FLOW
  RAYLEIGH-BENARD CONVECTION
  BENARD CELLS
  RT  CONVECTION CURRENTS
  CONVECTIVE HEAT TRANSFER
  FORCED CONVECTION
  HOT SURFACES
  LAMINAR FLOW
  RAYLEIGH NUMBER
  THERMAL BOUNDARY LAYER

REAGENTS
  RT  CATALYSTS
  CHEMICAL ANALYSIS
  CHEMICAL REACTIONS
  REACTION KINETICS

REARWARD FACING STEPS
  USE  BACKWARD FACING STEPS

RECTANGULAR WAVEGUIDES
  GS  TRANSMISSION LINES
  COMMUNICATION CABLES
  WAVEGUIDES
  RECTANGULAR WAVEGUIDES
SOFTWARE ENGINEERING (CONT.)
MULTIPROGRAMMING
ON-LINE PROGRAMMING
PARALLEL PROGRAMMING
SYMBOLIC PROGRAMMING
RT
COMPUTER PROGRAMS
COMPUTER SYSTEMS DESIGN
COMPUTER SYSTEMS PROGRAMS
DATA BASES
SOFTWARE TOOLS
SYSTEMS ENGINEERING
SOFTWARE TOOLS
RT
ARCHITECTURE (COMPUTERS)
COMPUTER PROGRAMMING
COMPUTER PROGRAMS
COMPUTER SYSTEMS DESIGN
COMPUTER SYSTEMS PROGRAMS
DATA BASE MANAGEMENT SYSTEMS
PROGRAM VERIFICATION (COMPUTERS)
SOFTWARE ENGINEERING

SOLAR BACKSCATTER UV SPECTROMETER
GS
MEASURING INSTRUMENTS
SPELAR THEKTORS
SOLAR BACKSCATTER UV SPECTROMETER
RT
IRRADIANCE
SATELLITE-BORNE INSTRUMENTS

• SOLAR DYNAMICS
USE
HELOISEISMOLGY

SOLAR LASERS
USE
SOLAR-PUMPED LASERS

SOLAR OPTICAL TELESCOPE
UP
SOT
GS
TELESCOPES
SPACEBORNE TELESCOPES
SOLAR OPTICAL TELESCOPE
RT
ASTRONOMICAL TELESCOPES
SOLAR INSTRUMENTS
SOLAR PHYSICS

SOLAR PLANETARY INTERACTIONS
GS
SOLAR PLANETARY INTERACTIONS
SOLAR TERRESTRIAL INTERACTIONS
RT
MAGNETIC DISTURBANCES
PLANETARY ATMOSPHERES
PLANETARY MAGNETIC FIELDS
PLASMA INTERACTIONS
SOLAR ACTIVITY
SOLAR ACTIVITY EFFECTS
SOLAR COROTEMPLUSULAR RADIATION
SOLAR WIND
SOLAR WIND VELOCITY

SOLAR RECEIVERS
USE
SOLAR COLLECTORS

• SOLAR SEISMOLOGY
USE
HELOISEISMOLGY

SOLAR SELECTIVE COATINGS
USE
SELECTIVE SURFACES

SOLAR THERMAL ELECTRIC POWER PLANTS
GS
ELECTRIC POWER PLANTS
SOLAR THERMAL ELECTRIC POWER PLANTS
RT
POWER PLANTS
SOLAR ENERGY
THERMAL ENERGY

SOLAR-PUMPED LASERS
UF
SOLAR LASERS
GS
STIMULATED EMISSION DEVICES
LASERS
SOLAR-PUMPED LASERS
RT
LASER PUMPING
OPTICAL PUMPING
SOLAR ENERGY CONVERSION
SOLAR RADIATION

SOLRAD 10 SATELLITE
USE
EXPLORER 44 SATELLITE

• SOLVOLYSIS
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RECLAMATION
MATERIALS RECOVERY
SOLVOLYSIS

SOLVOLYSIS (CONT.)
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RECYCLING
SOLVENTS
SONIC FATIGUE
USE
ACOUSTIC FATIGUE

• SORTIE SYSTEMS
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SORTIE CAN
SORTIE LAB
GS
PAYLOADS
SORTIE SYSTEMS
RT
SPACE LABORATORIES
SPACE SHUTTLE PAYLOADS
SPACE SHUTTLES
SPACE STATIONS
SPACELAB PAYLOADS
SOT
USE
SOLAR OPTICAL TELESCOPE
SOUND FIXING AND RANGING
UF
SOFAR
RT
SOUND RANGING
SOUND TRANSMISSION
UNDERWATER ACOUSTICS

SPACE COMMERCIALIZATION
RT
AEROSPACE INDUSTRY
COMMERCIAL SPACECRAFT
COMMUNICATION SATELLITES
MICROGRAVITY APPLICATIONS
SPACE INDUSTRIALIZATION
SPACE MANUFACTURING
SPACE PROCESSING
SPACECRAFT LAUNCHING
TECHNOLOGY TRANSFER

SPACE HABITATS
RT
AEROSPACE ENVIRONMENTS
CLOSED ECOLOGICAL SYSTEMS
LIFE SUPPORT SYSTEMS
SPACE COLEGES
SPACE STATIONS
SPACECRAFTS

• SPACE INFRARED TELESCOPE FACILITY
GS
OBSEVATIRES
ASTRONOMICAL OBSERVATORIES
ASTRONOMICAL SATELLITES
SPACE INFRARED TELESCOPE FACILITY
SATIETTES
ARTIFICIAL SATELLITES
ASTRONOMICAL SATELLITES
SPACE INFRARED TELESCOPE FACILITY
TELESCOPES
ASTRONOMICAL TELESCOPES
INFRARED TELESCOPES
SPACE INFRARED TELESCOPE FACILITY
SPACE OPERATIONS CENTER (NASA)
GS
MANNNED SPACECRAFT
SPACE STATIONS
ORBITAL SPACE STATIONS
SPACE OPERATIONS CENTER (NASA)
STATIONS
SPACE STATIONS
ORBITAL SPACE STATIONS
SPACE OPERATIONS CENTER (NASA)
RT
LARGE SPACE STRUCTURES
ORBITAL ASSEMBLY
ORBITAL SERVICING

• SPACE SHUTTLE MISSION 31-A
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STS-5
GS
TRANSPORTATION
SPACE TRANSPORTATION
SPACE TRANSPORTATION SYSTEM
SPACE SHUTTLE MISSIONS
SPACE SHUTTLE MISSION 31-A
RT
COLUMBUS (ORBITER)

• SPACE SHUTTLE MISSION 31-B
UF
STS-6
GS
TRANSPORTATION
SPACE TRANSPORTATION
SPACE SHUTTLE MISSIONS
SPACE SHUTTLE MISSION 31-B
RT
COLUMBUS (ORBITER)
| Space Shuttle Mission | orbiter | use | mission
<table>
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<tbody>
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<tr>
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### Static Characteristics

<table>
<thead>
<tr>
<th>Season</th>
<th>Mission</th>
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<tbody>
<tr>
<td>Spring</td>
<td>SPACE TELESCOPE</td>
</tr>
<tr>
<td>Summer</td>
<td>SPACE TELESCOPE</td>
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### Static Models

<table>
<thead>
<tr>
<th>Models</th>
<th>Mission</th>
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</thead>
<tbody>
<tr>
<td>Approximations</td>
<td>SPACE TELESCOPE</td>
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<tr>
<td>Dynamic Models</td>
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<tr>
<td>Optimization</td>
<td>SPACE TELESCOPE</td>
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### Static Temperature

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Mission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Absorption</td>
<td>SPACE TELESCOPE</td>
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### Strain Measurement

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Mission</th>
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</thead>
<tbody>
<tr>
<td>Gages</td>
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<tr>
<td>Rate</td>
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### Spinal Temperature

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Mission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Absorption</td>
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### Spray Ingestion

<table>
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<th>Ingestion</th>
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<tr>
<td>Gas Turbines</td>
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<td>Landing Gear</td>
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<td>Salt Spray Tests</td>
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### Spectral Methods

<table>
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<th>Method</th>
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<td>Computational Fluid Dynamics</td>
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<td>Differential Equations</td>
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<td>Spectrum Analysis</td>
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### Spectrophotometry

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<th>Photometry</th>
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<tr>
<td>Spectra</td>
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<td>Spectrophotometry</td>
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### Stellar Activity

<table>
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<th>Activity</th>
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<tr>
<td>Flares</td>
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<tr>
<td>Magnetic Disturbances</td>
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<td>Magnetohydrodynamics</td>
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<tr>
<td>Photosphere</td>
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<tr>
<td>Stars</td>
<td>SPACE TELESCOPE</td>
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<tr>
<td>Stellar Luminosity</td>
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<td>Stellar Magnetic Fields</td>
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<td>Stellar Mass Ejection</td>
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<td>Stellar Oscillations</td>
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<td>Stellar Radiation</td>
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<td>Sunspot Cycle</td>
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### Stellar Core

<table>
<thead>
<tr>
<th>Core</th>
<th>Mission</th>
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<td>Abundance</td>
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<tr>
<td>Carbon Stars</td>
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<tr>
<td>Stars</td>
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<tr>
<td>Stellar Structure</td>
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### Stellar Composition

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### Stern's Phorography

<table>
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<td>Acoustics</td>
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</table>
NASA THESSAURUS SUPPLEMENT (PART 1)

- SULFIDATION
- STRANGE ATTRACTIONS
- STRATEGIC MATERIALS
- SUPERLATTICES
- SWP WHATH WIDTH
- • SWEDISH SPACE PROGRAM
- • SYMBOITIC STARS
- • SYNCHROPHASING
- • TAGN
- • TRANSATMOSPHERIC VEHICLES
- • TRANSIT NAVIGATION SYSTEM

**SUPERLATTICES**
- GS CRYSTAL LATTICES
- RT SEMICONDUCTORS (MATERIALS)

**SUPERLATTICES**
- GS CRYSTAL DISLOCATIONS
- RT CRYSTAL STRUCTURE

**SUPERLATTICES**
- RT FLIGHT PATHS

**SURFACE NOISE INTERACTIONS**
- RT ACOUSTIC EXCITATION
- RT ACOUSTIC SCATTERING

**SWIATH WIDTH**
- RT AGRICULTURAL AIRCRAFT

**SWP WHATH WIDTH**
- RT REMOTE SENSING

**• SWEDISH SPACE PROGRAM**
- GS PROGRAMS
- RT EUROPEAN SPACE PROGRAMS

**• SYMBOITIC STARS**
- GS CELESTIAL BODIES
- RT SYMPOITIC STARS

**• SYNCHROPHASING**
- GS AIRCRAFT NOISE

**• TAGN**
- GS TRIMAMONQUANINDINERATE

**• TRANSATMOSPHERIC VEHICLES**
- GS SPACECRAFT

**• TRANSIT NAVIGATION SYSTEM**
- GS SPACECRAFT

- SULFIDATION
- STRANGE ATTRACTIONS
- STRATEGIC MATERIALS
- SUPERLATTICES
- SURFACE NOISE INTERACTIONS
- SWATH WIDTH
- • SWEDISH SPACE PROGRAM
- • SYMBOITIC STARS
- • SYNCHROPHASING
- • TAGN
- • TRANSATMOSPHERIC VEHICLES
- • TRANSIT NAVIGATION SYSTEM

**RT CHROMIUM**
- GS AIRCRAFT

**RT AIRCRAFT**
- GS SPACECRAFT

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WHIRL TOWERS-(CONT.)
HOVERING
HOVERING STABILITY
PARACHUTES
ROTARY WINGS
ROTOR AERODYNAMICS
SPIN TESTS

WOLFRAM
USE TUNGSTEN

X

X RAY TIMING EXPLORER
GS SATELLITES
ARTIFICIAL SATELLITES
EXPLORER SATELLITES
X RAY TIMING EXPLORER
EARTH SATELLITES
EXPLORER SATELLITES
X RAY TIMING EXPLORER

XENON CHLORIDE LASERS
GS STIMULATED EMISSION DEVICES
LASERS
GAS LASERS
XENON CHLORIDE LASERS
RARE GAS-HALIDE LASERS
XENON CHLORIDE LASERS
RT ELECTRON TRANSITIONS
EXCIMER LASERS
LASER MATERIALS
LASER OUTPUTS
ULTRAVIOLET LASERS

Y

* YUKON TERRITORY
GS NATIONS
CANADA
YUKON TERRITORY
A

Aircraft, A-310
AIRBORNE LASERS
Aircraft, A-310 AIRCRAFT
Aircraft, A-320
Aircraft, AV-8B
Aircraft, Chinese
Aircraft, Electric
Aircraft, Highly Manueverable
AIRCRAFT POWER SUPPLIES
Aircraft, Ultralight
Aircraft, US-2A
Aircraft, Vertical Attitude Takeoff-Landing
Airfoils, Supercritical
ALBERTA
Alcock Comet, Iras-Araki-
ALLENDE METEORITE
Amp, Cyclic
AMPHITRITE ASTEROID
Analysis, Cluster
Analysis, Data Flow
Analysis, Gas Path
Analysis, Image
Analysis, Multitemporal
Analysis, Principal Components
Analysis, Thermal
ANIK SATELLITES
Anode Microchannel Arrays, Multi-
A, SHUTTLE IMAGING RADAR
A, Space Shuttle Mission 31-
A, Space Shuttle Mission 41-
A, Space Shuttle Mission 51-
A-310 AIRCRAFT
A-320 AIRCRAFT
Access, Demand Assignment Multiple
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ACCRETION DISKS
Accuracy, Geodetic
Accuracy, Geometric
ACEE PROGRAM
Acid, Nitrous
Activity, Stellar
ADA (PROGRAMMING LANGUAGE)
Adenosine Monophosphate, Cyclic
AEROASSIST
AEROKRASUN
AEROCAPTURE
Aerodynamic And Struct Test, Drones For
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AEROGEOLOGICAL RESEARCH WINGS
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ANIK SATELLITES
Anode Microchannel Arrays, Multi-
Anodes, Shell
Anomalies, Geothermal
Antennas, Multibeam
Antennas, Plasma
Antistatic Devices
APES
APL (PROGRAMMING LANGUAGE)
Applications, Microgravity
Applications, Multisensor
ARABSAT
Araki-Alcock Comet, Iras-
ARC CLOUDS
ARIES SOUNDING ROCKET
Arrays, Multi-Anode Microchannel
Arrt, Crack
Assignment Multiple Access, Demand
Astern, Amphitrite
Astromas
ASTRONOMICAL SATELLITES
(Astronomy), Local Group
Astrophysics, Computational
ASYMPTOTIC PROPERTIES
ATLANTIS (ORBITER)
Atmosphere, Lunar
Atmospheres, Neutral
ATMOSPHERIC CORRECTION
Atmospheric Loading
Attitude Takeoff-Landing Aircraft, Vertical
Attractors, Strange
USE STRANGE ATTRACTORS

AUDIO DATA

AUDIO SIGNALS

AUTOMATED TRANSIT VEHICLES

AUTUMN

AV-8B Aircraft
USE HARRIER AIRCRAFT

AWARDS

B

B, Gravity Probe
USE GRAVITY PROBE B

B Satellite, MagSat
USE MAGSAT B SATELLITE

B, SHUTTLE IMAGING RADAR

B, Space Shuttle Mission 31-
USE SPACE SHUTTLE MISSION 31-B

B, Space Shuttle Mission 41-
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B, Space Shuttle Mission 51-
USE SPACE SHUTTLE MISSION 51-B

Backscatter UV Spectrometer, Solar
USE SOLAR BACKSCATTER UV SPECTROMETER

BACKWARD DIFFERENCING

BACKWARD FACING STEPS

BAHAMAS

BALLOONING MODES

BAND RATIOING

Bandgap
USE ENERGY GAPS (SOLID STATE)

BANDSTOP FILTERS

BARYON RESONANCE

Bases, Numerical Data
USE NUMERICAL DATA BASES

Batteries, Nickel Iron
USE NICKEL IRON BATTERIES

Bearings, Magnetic
USE MAGNETIC BEARINGS

Benard Convection, Rayleigh-
USE RAYLEIGH-BENARD CONVECTION

BENIN

Beta Interactions
USE WEAK INTERACTIONS (FIELD THEORY)

Bicliomatology
USE BIOMETEOROLOGY

BIOFEEDBACK

(Biology), Desynchronization
USE DESYNCHRONIZATION (BIOLOGY)

BIOMETEOROLOGY

BIOPROCESSING

Biophere Program, International Geosphere-
USE INTERNATIONAL GEOSPHERE-BIOSPHERE PROGRAM

BIOT NUMBER

Biphenyls, Polybrominated
USE POLYBROMINATED BIPHENYL

Bistability, Optical
USE OPTICAL BISTABILITY

BIT ERROR RATE

BLINKING

Body Interactions, Rotor
USE ROTOR BODY INTERACTIONS

Boron (Trademark)
USE BORON NITRIDES

Breaking, Aero
USE AEROBREAKING

BRAZILIAN SPACE PROGRAM

BRITISH COLUMBIA

Brito Test
USE STATISTICAL TESTS

Brunswick, New
USE NEW BRUNSWICK

BRUNT-VAISALA FREQUENCY

Bubbles, Plasma
USE PLASMA BUBBLES

BURN

Burning, Hole
USE HOLE BURNING

BURST TESTS

Business Management
USE INDUSTRIAL MANAGEMENT

C

C, Space Shuttle Mission 31-
USE SPACE SHUTTLE MISSION 31-C

C, Space Shuttle Mission 41-
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C, Space Shuttle Mission 51-
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CAD (Design)
USE COMPUTER AIDED DESIGN

CAM (Manufacturing)
USE COMPUTER AIDED MANUFACTURING

Cambodia
USE KAMPUCHEA

CANADIAN SPACECRAFT

Cardiography, Radio
USE RADIOCARDIOGRAPHY

CARIBBEAN REGION

Carrier, European Retrievable
USE EURICA (ESA)

Carrington Rotation
USE SOLAR ROTATION

Casting, Sand
USE SAND CASTING

NASA THESAURUS SUPPLEMENT (PART 2)

CATAclysmic VARIABLES

CAVITY

CDC CYBER 205 COMPUTER

Center (NASA), Space Operations
USE SPACE OPERATIONS CENTER (NASA)

CERAMIC MATRIX COMPOSITES

CEREBRAL VENTRICLES

CHALLENGER (ORBITER)

CHANGE DETECTION

CHAOs

Characteristics, Static
USE STATIC CHARACTERISTICS

CHARGE INJECTION DEVICES

Chemistry, Computational
USE COMPUTATIONAL CHEMISTRY

CHINESE AIRCRAFT

Chloride Lasers, Xenon
USE XENON CHLORIDE LASERS

Chromatography, Gel Permeation
USE LIQUID CHROMATOGRAPHY

CID
USE CHARGE INJECTION DEVICES

Circuit Currents, Short
USE SHORT CIRCUIT CURRENTS

CIRCULAR WAVEGUIDES

CIRCULATION DISTRIBUTION

City (NY), New York
USE NEW YORK CITY (NY)

Clouds, Arc
USE ARC CLOUDS

Clouds, Ophiuchi
USE OPHIUCHI CLOUDS

CLUSTER ANALYSIS

Coatings, Solar Selective
USE SELECTIVE SURFACES

Coefficients, Drag
USE DRAG COEFFICIENTS

Coefficients, Virial
USE VIRIAL COEFFICIENTS

Color, Stellar
USE STELLAR COLOR

Columbia, British
USE BRITISH COLUMBIA

COLUMBIA (ORBITER)

Comet, Encke
USE ENCKE COMET

Comet, Iiras-Araki-Alcock
USE IRAS-ARAki-ALCOCK COMET

COMMAND LANGUAGES

COMMERCIAL SPACECRAFT

Commercialization, Space
USE SPACE COMMERCIALIZATION

COMMONALITY

Communication, Ship To Shore
USE SHIP TO SHORE COMMUNICATION
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USE AUDIO SIGNALS

Signatures, Video

USE VIDEO SIGNALS

Signatures, Infrared

USE INFRARED SIGNATURES

Simulation, Data

USE DATA SIMULATION

Simulation, Motion

USE MOTION SIMULATION

SIR-A

USE SHUTTLE IMAGING RADAR

SIR-B

USE SHUTTLE IMAGING RADAR

Size, Grain

USE GRAIN SIZE

SOBOLEV SPACE

USE SOBOLEV SPACE

SOFAR

USE SOUND FIXING AND RANGING

SOFTWARE ENGINEERING

SOFTWARE TOOLS

SOLAR BACKSCATTER UV SPECTROMETER

Solar Dynamics

USE HELIOSEISMOLOGY

Solar Lasers

USE SOLAR-PUMPED LASERS

SOLAR OPTICAL TELESCOPE

SOLAR PLANETARY INTERACTIONS

Solar Receivers

USE SOLAR COLLECTORS

Solar Seismology

USE HELIOSEISMOLOGY

Solar Selective Coatings

USE SELECTIVE SURFACES

SOLAR THERMAL ELECTRIC POWER PLANTS

SOLAR-PUMPED LASERS

Solid Interactions, Fluid-

USE FLUID-SOLID INTERACTIONS

Solid Zones, Liquid Plus

USE MUSHY ZONES

Solrad 10 Satellite

USE EXPLORER 44 SATELLITE

SOLVOLYSIS

Sonics Fatigue

USE ACOUSTIC FATIGUE

SORTIE SYSTEMS

SOT

USE SOLAR OPTICAL TELESCOPE

SOUND FIXING AND RANGING

Sounding Rocket, Ariane

USE ARIANES SOUNDING ROCKET

SPACE COMMERCIALIZATION

SPACE HABITATS

Space, Hazardous Material Disposal (In

USE HAZARDOUS MATERIAL DISPOSAL (IN SPACE)

SPACE INFRARED TELESCOPE FACILITY

SPACE OPERATIONS CENTER (NASA)

Space Probe, Pioneer 12

USE PIONEER VENUS SPACECRAFT

Space Program, Brazilian

USE BRAZILIAN SPACE PROGRAM

Space Program, Swedish

USE SWEDISH SPACE PROGRAM

Space Program, Swiss

USE SWISS SPACE PROGRAM

SPACE SHUTTLE MISSION 31-A

SPACE SHUTTLE MISSION 31-B

SPACE SHUTTLE MISSION 31-C

SPACE SHUTTLE MISSION 31-D

SPACE SHUTTLE MISSION 41-A

SPACE SHUTTLE MISSION 41-B

SPACE SHUTTLE MISSION 41-C

SPACE SHUTTLE MISSION 41-D

SPACE SHUTTLE MISSION 41-G

SPACE SHUTTLE MISSION 51-A

SPACE SHUTTLE MISSION 51-B

SPACE SHUTTLE MISSION 51-C

SPACE SHUTTLE MISSION 51-D

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SPACE SHUTTLE MISSION 51-G

SPACE SHUTTLE MISSION 51-H

SPACE SHUTTLE MISSION 51-I

SPACE SHUTTLE MISSION 51-J

SPACE SHUTTLE MISSION 51-L

SPACE SHUTTLE MISSIONS

Space Shuttle Orbiter 099

USE CHALLENGER (ORBITER)

Space Shuttle Orbiter 101

USE ENTERPRISE (ORBITER)

Space Shuttle Orbiter 102

USE COLUMBIA (ORBITER)

Space Shuttle Orbiter 103

USE DISCOVERY (ORBITER)

Space Shuttle Orbiter 104

USE ATLANTIS (ORBITER)

SPECTRAL METHODS

Spectrometer, Solar Backscatter UV

USE SOLAR BACKSCATTER UV SPECTROMETER

Spectrometers, Ion

USE MASS SPECTROMETERS

SPECTROPHOTOVOLTAICS

Spectroscopic Explorer, Far UV

USE FAR UV SPECTROSCOPIC EXPLORER

Speeches

USE LECTURES

Speed Photography, High

USE HIGH SPEED PHOTOGRAPHY

SPIN TEMPERATURE

SPRAY INGESTION

SPRING (SEASON)

Stage, Multi

USE MULTIVIBRATORS

Stars, Double

USE BINARY STARS

Stars, Pre-Main Sequence

USE PRE-MAIN SEQUENCE STARS

Stars, Red Dwarf

USE RED DWARF STARS

Stars, Symbiotic

USE SYMBIOTIC STARS

Start, Air

USE AIR START

States, United

USE UNITED STATES

NASA THESAURUS SUPPLEMENT (PART 2)

Space, Sobolev

USE SOBOLEV SPACE

Space Telescope

USE HUBBLE SPACE TELESCOPE

Space Telescope, Hubble

USE HUBBLE SPACE TELESCOPE

SPACEBORNE LASERS

Spacecraft, Canadian

USE CANADIAN SPACECRAFT

Spacecraft, Commercial

USE COMMERCIAL SPACECRAFT

SPACECRAFT EQUIPMENT

Spacecraft, IRS (Indian

USE INDIAN SPACECRAFT

Spacecraft, Japanese

USE JAPANESE SPACECRAFT

SPACECRAFT MAINTENANCE

Spacecraft, Mariner Mark 2

USE MARINER MARK 2 SPACECRAFT

Spacecraft, Mars 7

USE MARS 7 SPACECRAFT

Spacecraft, MOS (Japanese

USE JAPANESE SPACECRAFT

Spacecraft, SEO (Indian

USE INDIAN SPACECRAFT

SPARTAN SATELLITES

Speaking, Public

USE PUBLIC SPEAKING

SPECTRAL METHODS

Spectrometer, Solar Backscatter UV

USE SOLAR BACKSCATTER UV SPECTROMETER

Spectrometers, Ion

USE MASS SPECTROMETERS

SPECTROPHOTOVOLTAICS

Spectroscopic Explorer, Far UV

USE FAR UV SPECTROSCOPIC EXPLORER

Speeches

USE LECTURES

Speed Photography, High

USE HIGH SPEED PHOTOGRAPHY

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SPRING (SEASON)

Stage, Multi

USE MULTIVIBRATORS

Stars, Double

USE BINARY STARS

Stars, Pre-Main Sequence

USE PRE-MAIN SEQUENCE STARS

Stars, Red Dwarf

USE RED DWARF STARS

Stars, Symbiotic

USE SYMBIOTIC STARS

Start, Air

USE AIR START

States, United

USE UNITED STATES
(Trademark), Borazon

USE BORON NITRIDES

TRANSATMOSPHERIC VEHICLES

Transducers, Interdigital
USE INTERDIGITAL TRANSDUCERS

Transfer, Payload
USE PAYLOAD TRANSFER

TRANSIT NAVIGATION SYSTEM

Transit Vehicles, Automated
USE AUTOMATED TRANSIT VEHICLES

Transport Program, Energy Efficiency
USE ACEE PROGRAM

Trilaminoguanidinidantrolate
USE TAGN

Trilaminotrinitrobenzene
USE TATB

TRIBOLUMINESCENCE

Troposc Process, Fischer-
USE FISCHER-TROPSCH PROCESS

TYROSINE

U

ULTRALIGHT AIRCRAFT

ULYSSES MISSION

UNIFIED FIELD THEORY

UNITED STATES

Units, Agrophysical
USE AGROPHYSICAL UNITS

Units, Manned Maneuvering
USE MANNED MANEUVERING UNITS

Upper Volta
USE BURKINA

URANUS SATELLITES

US-2A Aircraft
USE S-2 AIRCRAFT

UV Spectrometer, Solar Backscatter
USE SOLAR BACKSCATTER UV SPECTROMETER

UV Spectroscopic Explorer, Far
USE FAR UV SPECTROSCOPIC EXPLORER

V

Valsa Frequency, Brunt-
USE BRUNT-VASALA FREQUENCY

Valves, Light
USE LIGHT VALVES

Valves, Tip
USE TIP VANES

Variables, Cataclysmic
USE CATAclySMIC VARIABLES

VAX COMPUTERS

VCO
USE VOLTAGE CONTROLLED OSCILLATORS

VEGA PROJECT

VEGETATIVE INDEX

Vehicles, Automated Transit
USE AUTOMATED TRANSIT VEHICLES

Vehicles, Orbital Maneuvering
USE ORBITAL MANEUVERING VEHICLES

Vehicles, Shuttle Derived
USE SHUTTLE DERIVED VEHICLES

Vehicles, Transatmospheric
USE TRANSATMOSPHERIC VEHICLES

Ventricles, Cerebral
USE CEREBRAL VENTRICLES

Vertical Attitude Takeoff-Landing Aircraft
USE VATOL AIRCRAFT

VERY LARGE SCALE INTEGRATION

VIRIAL COEFFICIENTS

VIRTUAL MEMORY SYSTEMS

VLSI
USE VERY LARGE SCALE INTEGRATION

VOLTAGE CONTROLLED OSCILLATORS

VORTEX PRECESSION

W

W
USE TUNGSTEN

WASTE HEAT

Wastes, Nuclear
USE RADIOACTIVE WASTES

Waveguides, Circular
USE CIRCULAR WAVEGUIDES

Waveguides, Rectangular
USE RECTANGULAR WAVEGUIDES

West Pakistan
USE PAKISTAN

WESTERN HEMISPHERE

WHIRL TOWERS

Width, Swath
USE SWATH WIDTH

Wings, Aerelastic Research
USE AEROELASTIC RESEARCH WINGS

Wings, Cranked
USE SWEPT WINGS

Wolfram
USE TUNGSTEN

X

X Ray Imaging Scope, Low Intensity
USE LINSCOPES

X RAY TIMING EXPLORER

XENON CHLORIDE LASERS

Y

York City (NY), New
USE NEW YORK CITY (NY)

NASA THESAURUS SUPPLEMENT (PART 2)

YUKON TERRITORY

Z

Zones, Float
USE FLOAT ZONES

Zones, Liquid Plus Solid
USE MUSHY ZONES

Zones, Mushy
USE MUSHY ZONES

NUMERICAL LISTING

1, SEASAT
USE SEASAT 1

2 Satellite, P76-
USE SCATHA SATELLITE

2 Spacecraft, Mariner Mark
USE MARINER MARK 2 SPACECRAFT

2A Aircraft, US-
USE S-2 AIRCRAFT

4, LANDSAT
USE LANDSAT 4

5, LANDSAT
USE LANDSAT 5

7 Spacecraft, Mars
USE MARS 7 SPACECRAFT

8 Satellite, NOAA
USE NOAA 8 SATELLITE

8B Aircraft, AV-
USE HARRIER AIRCRAFT

10 Satellite, Solrad
USE EXPLORER 44 SATELLITE

12 Space Probe, Pioneer
USE PIONEER VENUS SPACECRAFT

13, STS-
USE SPACE SHUTTLE MISSION 41-C

14, STS-
USE SPACE SHUTTLE MISSION 41-D

17, STS-
USE SPACE SHUTTLE MISSION 41-G

18, STS-
USE SPACE SHUTTLE MISSION 51-A

20, STS-
USE SPACE SHUTTLE MISSION 51-C

21, STS-
USE SPACE SHUTTLE MISSION 51-B

22, STS-
USE SPACE SHUTTLE MISSION 51-E

23, STS-
USE SPACE SHUTTLE MISSION 51-D

24, STS-
USE SPACE SHUTTLE MISSION 51-F

25, STS-
USE SPACE SHUTTLE MISSION 51-G

26, STS-
USE SPACE SHUTTLE MISSION 51-L

27, STS-
USE SPACE SHUTTLE MISSION 51-I

28, STS-
USE SPACE SHUTTLE MISSION 51-J
31, STS-
USE SPACE SHUTTLE MISSION 51-H

31-A, Space Shuttle Mission
USE SPACE SHUTTLE MISSION 31-A

31-B, Space Shuttle Mission
USE SPACE SHUTTLE MISSION 31-B

31-C, Space Shuttle Mission
USE SPACE SHUTTLE MISSION 31-C

31-D, Space Shuttle Mission
USE SPACE SHUTTLE MISSION 31-D

41-A, Space Shuttle Mission
USE SPACE SHUTTLE MISSION 41-A

41-B, Space Shuttle Mission
USE SPACE SHUTTLE MISSION 41-B

41-C, Space Shuttle Mission
USE SPACE SHUTTLE MISSION 41-C

41-D, Space Shuttle Mission
USE SPACE SHUTTLE MISSION 41-D

41-G, Space Shuttle Mission
USE SPACE SHUTTLE MISSION 41-G

44 Satellite, Explorer
USE EXPLORER 44 SATELLITE

46 Satellite, Explorer
USE EXPLORER 46 SATELLITE

51-A, Space Shuttle Mission
USE SPACE SHUTTLE MISSION 51-A

51-B, Space Shuttle Mission
USE SPACE SHUTTLE MISSION 51-B

51-C, Space Shuttle Mission
USE SPACE SHUTTLE MISSION 51-C

51-D, Space Shuttle Mission
USE SPACE SHUTTLE MISSION 51-D

51-E, Space Shuttle Mission
USE SPACE SHUTTLE MISSION 51-E

51-F, Space Shuttle Mission
USE SPACE SHUTTLE MISSION 51-F

51-G, Space Shuttle Mission
USE SPACE SHUTTLE MISSION 51-G

51-H, Space Shuttle Mission
USE SPACE SHUTTLE MISSION 51-H

51-I, Space Shuttle Mission
USE SPACE SHUTTLE MISSION 51-I

51-J, Space Shuttle Mission
USE SPACE SHUTTLE MISSION 51-J

51-L, Space Shuttle Mission
USE SPACE SHUTTLE MISSION 51-L

099, Space Shuttle Orbiter
USE CHALLENGER (ORBITER)

103, Space Shuttle Orbiter
USE DISCOVERY (ORBITER)

104, Space Shuttle Orbiter
USE ATLANTIS (ORBITER)

205 Computer, CDC Cyber
USE CDC CYBER 205 COMPUTER

310 Aircraft, A-
USE A-310 AIRCRAFT

320 Aircraft, A-
USE A-320 AIRCRAFT

954 Satellite, Cosmos
USE COSMOS 954 SATELLITE
NASA THESaurus Supplement

PART 3
DELETIONS

AEROMAGNETISM
Use GEOMAGNETISM
Deleted, term now postable

AEROMAGNETISM
Use GEOMAGNETISM
Deleted, term now postable

BARYON RESONANCES
Transferred to BARYON RESONANCE

BIORHYTHM
Transferred to BIOMETRY

BIOCLIMATOLOGY
Transferred to BIOMETEOROLOGY

CAMBODIA
Transferred to KAMPUCHEA

CERCOCEBUS MONKEYS
Transferred to MONKEYS

CHINA (Array term)
Deleted

CHINA (MAINLAND)
Transferred to CHINA

CHINA (TAIWAN)
Transferred to TAIWAN

COMMONALITY (EQUIPMENT)
Transferred to COMMONALITY

COSMOS 1 SATELLITE
COSMOS 4 SATELLITE
COSMOS 7 SATELLITE
COSMOS 8 SATELLITE
COSMOS 11 SATELLITE
COSMOS 12 SATELLITE
COSMOS 15 SATELLITE
COSMOS 17 SATELLITE
COSMOS 41 SATELLITE
COSMOS 53 SATELLITE
COSMOS 55 SATELLITE
COSMOS 462 SATELLITE
COSMOS 1128 SATELLITE
COSMOS 1130 SATELLITE
COSMOS 1131 SATELLITE
COSMOS 1132 SATELLITE
COSMOS 1133 SATELLITE
COSMOS 1134 SATELLITE
COSMOS 1135 SATELLITE
COSMOS 1136 SATELLITE
COSMOS 1137 SATELLITE

DAHOMEY
Transferred to BENIN

DIKES
Use ROCK INTRUSIONS
Deleted

DIFFERENTIAL ANALYZERS
Use ANALOG COMPUTERS
Deleted, term now postable

DIFFERENTIAL THERMAL ANALYSIS
Transferred to THERMAL ANALYSIS

DIRECTORIES
Use INDEXES (DOCUMENTATION)
Deleted

DISCOVERER 5 SATELLITE
DISCOVERER 6 SATELLITE
DISCOVERER 15 SATELLITE
DISCOVERER 17 SATELLITE
DISCOVERER 18 SATELLITE
DISCOVERER 29 SATELLITE
DISCOVERER 30 SATELLITE
DISCOVERER 31 SATELLITE
DISCOVERER 32 SATELLITE
DISCOVERER 36 SATELLITE
DISCOVERER 38 SATELLITE

EXERCISE (PHYSIOLOGY)
Use PHYSICAL EXERCISE
Deleted

EXPERIMENTAL DESIGN
Transferred to EXPERIMENT DESIGN

EXPLORER 42 SATELLITE
Transferred to UHURU SATELLITE

FLUORPHLOGOPITE
Transferred to FLUORPHLOGOPITE

GIOTTO MISSION
Use EUROPEAN SPACE PROGRAM
HALLEY'S COMET
Deleted, term now postable

GREEN FUNCTION
Transferred to GREEN'S FUNCTIONS

IMAGING RADAR
Use SYNTHETIC APERTURE RADAR
Deleted, term now postable

INFORMATION TRANSFER
Use COMMUNICATING
Deleted, term now postable

INTELSAT 1 SATELLITE
INTELSAT 2 SATELLITE
INTELSAT 3 SATELLITE
INTELSAT 4 SATELLITE
INTELSAT 5 SATELLITE
INTELSAT 59 SATELLITE
INTELSAT 5C SATELLITE
INTELSAT 5F SATELLITE
Transferred to INTELSAT SATELLITES

INTERNATIONAL SOLAR POLAR MISSION
Transferred to ULYSSES MISSION

ISEE A
Use INTERNATIONAL SUN EARTH EXPLORER 1
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ISEE B
Use INTERNATIONAL SUN EARTH EXPLORER 2
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ISEE C
Use INTERNATIONAL SUN EARTH EXPLORER 3
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Use INTERNATIONAL SUN EARTH EXPLORER 1
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ISEE 2
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ISEE 3
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K MESONS
Transferred to KAONS

LANDSAT C
Use LANDSAT 3
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LANDSAT D
Transferred to LANDSAT 4
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The three part cumulative NASA Thesaurus Supplement to the 1982 edition of the NASA Thesaurus includes Part 1, Hierarchical Listing, Part 2, Access Vocabulary, and Part 3, Deletions. The semiannual supplement gives complete hierarchies for new terms and includes new term indications for terms new to this supplement.