NASA THESAURUS SUPPLEMENT
JANUARY 1985

A three part cumulative supplement to the 1982 edition of the NASA Thesaurus
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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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MESONS
MESON RESONANCE
X MESONS
FERMIONS
NUCLEAR PARTICLES
BOSONS
MESONS
MESON RESONANCE
X MESONS
RESONANCE

METAL NITRIDES
GS NITROGEN COMPOUNDS
NITRIDES

MILANKOVITCH THEORY

MIXING
HOLE BURNING
MAGNETIC DISKS
HOLE BURNING

MOTOR TECHNOLOGY
USE EXTRAVEHICULAR MOBILITY UNITS

MOUNTAIN MEMBRANE

MOUNTAIN MEMBRANE
### 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 Assorption 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

**PB**
- Use: Polybrominated Biphenyls

**Personal Computers**
- GS Data Processing Equipment
- Computers
- Digital Computers
- Microcomputers
- Personal Computers
- RT Computer Techniques

**Photoclinometry**
- 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
- Rings
- 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

**Polaritons**
- GS Polaritons
- Plasmons

**Polybrominated Biphenyls**
- Use: Polybrominated Biphenyls

**Poseidon Satellite**
- GS Satellites
- Artificial Satellites
- Poseidon Satellite

**Power Factor Controllers**
- GS Controllers
- Power Factor Controllers
- RT Current Regulators
- Electric Motors
- Energy Conservation
- Energy Conversion Efficiency
- Induction Motors
- Power Efficiency
- Voltage Regulators

**Power Loss**
- SN: Use of a more specific term is recommended—consult the terms listed below
- RT Energy Dissipation
- Power Efficiency

**Pre-Main Sequence Stars**
- GS Celestial Bodies
- Stars
- Main Sequence Stars
- Pre-Main Sequence Stars
- RT 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
- Data Processing
- Data Transmission
- Packet Switching

**Pseudopotentials**
- GS Impurities

**Rectangular Waveguides**
- GS Transmission Lines
- Communication Cables
- Waveguides
- Rectangular Waveguides

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- Communication Cables
- Waveguides
- Rectangular Waveguides

**Rectangular Waveguides**
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- Communication Cables
- Waveguides
- Rectangular Waveguides

**Quantum Electronics**
- RT Electronics
- Lasers
- Quantum Mechanics
- Quantum Theory

**Query Languages**
- GS Languages
- Command Languages
- Query Languages
- RT Information Retrieval

**Radiation Medicine**
- Use: Nuclear Medicine

**Radiocardiography**
- GS Bioengineering
- Biometrics
- Radiocardiography
- Cardiology
- Radiocardiography
- 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

**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
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- Rayleigh Number
- Thermal Boundary Layer

**Reagents**
- RT Catalysts
- Chemical Analysis
- Chemical Reactions
- Reaction Kinetics

**Rearward Facing Steps**
- Use: Backward Facing Steps

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- Communication Cables
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**Rectangular Waveguides**
- GS Transmission Lines
- Communication Cables
- Waveguides
- Rectangular Waveguides
• SOLAR DYNAMICS
  USE HELIOSEISMOLOGY

• SOLAR LASERS
  USE SOLAR-PUMPED LASERS

• SOLAR OPTICAL TELESCOPE
  UF SOT
  GS TELESCOPES
  SPACEBORNE TELESCOPES
  SOLAR OPTICAL TELESCOPE
  RT ASTRONOMICAL TELESCOPES
  SOLAR INSTRUMENTS
  SOLAR PHYSICS

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

• SOLAR RECEIVERS
  USE SOLAR COLLECTORS

• SOLAR SEISMOLOGY
  USE HELIOSEISMOLOGY

• SOLAR SELECTIVE COATINGS
  USE SELECTIVE SURFACES

• SOLAR THERMAL ELECTRIC POWER PLANTS
  GS ELECTRIC POWER PLANTS
  SOLAR THERMAL ELECTRIC POWER PLANTS
  RT ePOWER 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 4 SATELLITE

• SOLVOLYSIS
  GS RECLAMATION
  MATERIALS RECOVERY
  SOLVOLYSIS
  RT RECYCLING
  SOLVENTS
  SONIC FATIGUE
  USE ACOUSTIC FATIGUE

• SPACE DYNAMICS
  USE HELIOSEISMOLOGY

• SPACE INFRARED TELESCOPE
  FACILITY
  GS OBSERVATORIES
  ASTRONOMICAL OBSERVATORIES
  ASTRONOMICAL SATELLITES
  SPACE INFRARED TELESCOPE FACILITY
  SATELLITES
  ARTIFICIAL SATELLITES
  ASTRONOMICAL SATELLITES
  SPACE INFRARED TELESCOPE FACILITY
  TELESCOPES
  ASTRONOMICAL TELESCOPES
  INFRARED TELESCOPES
  SPACE INFRARED TELESCOPE FACILITY
  RT SPACE OPERATIONS CENTER (NASA)
  MANAGED 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
  UF STS-4
  GS TRANSPORTATION
  SPACE TRANSPORTATION
  SPACE TRANSPORTATION SYSTEM
  PAYLOAD SPACE SHUTTLE MISSIONS
  SPACE SHUTTLE MISSION 31-A
  RT COLUMBIA (ORBITER)

• SPACE SHUTTLE MISSION 31-B
  UF STS-6
  GS TRANSPORTATION
  SPACE TRANSPORTATION

• SPACE SHUTTLE MISSION 31-C
  UF SPACE SHUTTLE ORBITAL FLIGHT 7
  STS-7
  GS TRANSPORTATION
  SPACE TRANSPORTATION
  SPACE TRANSPORTATION SYSTEM
  SPACE SHUTTLE MISSIONS
  SPACE SHUTTLE MISSION 31-C
  RT CHALLENGER (ORBITER)

• SPACE SHUTTLE MISSION 31-D
  UF SPACE SHUTTLE ORBITAL FLIGHT 8
  STS-8
  GS TRANSPORTATION
  SPACE TRANSPORTATION
  SPACE TRANSPORTATION SYSTEM
  SPACE SHUTTLE MISSIONS
  SPACE SHUTTLE MISSION 31-D
  RT CHALLENGER (ORBITER)

• SPACE SHUTTLE MISSION 41-A
  UF SPACE SHUTTLE ORBITAL FLIGHT 9
  STS-9
  GS TRANSPORTATION
  SPACE TRANSPORTATION
  SPACE TRANSPORTATION SYSTEM
  SPACE SHUTTLE MISSIONS
  SPACE SHUTTLE MISSION 41-A
  RT COLUMBIA (ORBITER)

• SPACE SHUTTLE MISSION 41-B
  UF STS-11
  GS TRANSPORTATION
  SPACE TRANSPORTATION
  SPACE TRANSPORTATION SYSTEM
  SPACE SHUTTLE MISSIONS
  SPACE SHUTTLE MISSION 41-B
  RT CHALLENGER (ORBITER)

• SPACE SHUTTLE MISSION 41-C
  UF STS-13
  GS TRANSPORTATION
  SPACE TRANSPORTATION
  SPACE TRANSPORTATION SYSTEM
  SPACE SHUTTLE MISSIONS
  SPACE SHUTTLE MISSION 41-C
  RT CHALLENGER (ORBITER)

• SPACE SHUTTLE MISSION 41-D
  UF STS-14
  GS TRANSPORTATION
  SPACE TRANSPORTATION
  SPACE TRANSPORTATION SYSTEM
  SPACE SHUTTLE MISSIONS
  SPACE SHUTTLE MISSION 41-D
  RT DISCOVERY (ORBITER)

• SPACE SHUTTLE MISSION 41-G
  UF STS-17
  GS TRANSPORTATION
  SPACE TRANSPORTATION
  SPACE TRANSPORTATION SYSTEM
  SPACE SHUTTLE MISSIONS
  SPACE SHUTTLE MISSION 41-G
  RT CHALLENGER (ORBITER)

• SPACE SHUTTLE MISSION 51-A
  UF STS-19
  GS TRANSPORTATION
  SPACE TRANSPORTATION
  SPACE TRANSPORTATION SYSTEM
  SPACE SHUTTLE MISSIONS
  SPACE SHUTTLE MISSION 51-A
  RT DISCOVERY (ORBITER)

• SPACE SHUTTLE MISSION 51-B
  UF STS-21
  GS TRANSPORTATION
  SPACE TRANSPORTATION
  SPACE TRANSPORTATION SYSTEM
  SPACE SHUTTLE MISSIONS
  SPACE SHUTTLE MISSION 51-B
  RT DISCOVERY (ORBITER)
SPACE SHUTTLE MISSION 51-C
- SPACE SHUTTLE MISSION 51-C
  • 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-E
  • SPACE SHUTTLE MISSION 51-F
  • SPACE SHUTTLE MISSION 51-G
  • SPACE SHUTTLE MISSION 51-H
  • SPACE SHUTTLE MISSION 51-I
  • SPACE SHUTTLE MISSION 51-J
  • SPACE SHUTTLE MISSION 51-K
  • SPACE SHUTTLE MISSION 51-L

SPACESHUTTLE MISSIONS-(CONT.)
- SPACE SHUTTLE ORBITER 099
  • SPACE SHUTTLE ORBITER 099
    USE CHALLENGER (ORBITER)
- SPACE SHUTTLE ORBITER 101
  • SPACE SHUTTLE ORBITER 101
    USE ENTERPRISE (ORBITER)
- SPACE SHUTTLE ORBITER 102
  • SPACE SHUTTLE ORBITER 102
    USE COLUMBIA (ORBITER)
- SPACE SHUTTLE ORBITER 103
  • SPACE SHUTTLE ORBITER 103
    USE DISCOVERY (ORBITER)
- SPACE SHUTTLE ORBITER 104
  • SPACE SHUTTLE ORBITER 104
    USE ATLANTIS (ORBITER)
- SPACE TELESCOPE
  • SPACE TELESCOPE
    USE HUBBLE SPACE TELESCOPE
- SPACEBORNE LASERS
  • SPACEBORNE LASERS
    USE LASER APPLICATIONS
    REMOTE SENSORS
- SPACECRAFT EQUIPMENT
  • SPACECRAFT EQUIPMENT
    USE SPACECRAFT INSTRUMENTS
- SPACECRAFT MAINTENANCE
  • SPACECRAFT MAINTENANCE
    USE SPACECRAFT RELIABILITY
    SPACECRAFT RELIABILITY (SRT)
- SPARTAN SATELLITES
  • SPARTAN SATELLITES
    USE STELLAR SPECTROPHOTOMETRY
- SPACE SHUTTLE MISSION 51-C
  • SPACE SHUTTLE MISSION 51-C
    USE LECTURES
- SPACE SHUTTLE MISSION 51-D
  • SPACE SHUTTLE MISSION 51-D
    USE SPACECRAFT ELECTRONICS
- SPACE SHUTTLE MISSION 51-F
  • SPACE SHUTTLE MISSION 51-F
    USE SPACECRAFT ENGINEERING
- SPACE SHUTTLE MISSION 51-G
  • SPACE SHUTTLE MISSION 51-G
    USE SPACECRAFT MAINTENANCE
    SPACECRAFT MAINTENANCE (SRT)
- SPACE SHUTTLE MISSION 51-H
  • SPACE SHUTTLE MISSION 51-H
    USE SPACECRAFT MAINTENANCE
    SPACECRAFT RELIABILITY (SRT)
- SPACE SHUTTLE MISSION 51-I
  • SPACE SHUTTLE MISSION 51-I
    USE LECTURES
- SPACE SHUTTLE MISSION 51-J
  • SPACE SHUTTLE MISSION 51-J
    USE SPACECRAFT MAINTENANCE
- SPACE SHUTTLE MISSION 51-L
  • SPACE SHUTTLE MISSION 51-L
    USE SPACECRAFT MAINTENANCE
    SPACECRAFT RELIABILITY (SRT)
- SPACE SHUTTLE MISSIONS
  • SPACE SHUTTLE MISSIONS
    USE SPACECRAFT MAINTENANCE
- SPEECHES
  • SPEECHES
    USE LECTURES
- SPIN TEMPERATURE
  • SPIN TEMPERATURE
    USE LECTURES
- SPRAY INGESTION
  • SPRAY INGESTION
    USE SPACECRAFT MAINTENANCE
- SPRING (SEASON)
  • SPRING (SEASON)
    USE ENTERPRISE (ORBITER)
- STATIC CHARACTERISTICS
  • STATIC CHARACTERISTICS
    USE STATIC CHARACTERISTICS
- STATIC MODELS
  • STATIC MODELS
    USE STATIC MODELS
- STELLAR ACTIVITY
  • STELLAR ACTIVITY
    USE STARS
- STELLAR COMPOSITION
  • STELLAR COMPOSITION
    USE CHEMICAL COMPOSITION
- STELLAR CORES
  • STELLAR CORES
    USE ENERGY SPECTRA
- STELLAR SPECTRA
  • STELLAR SPECTRA
    USE SPACECRAFT MAINTENANCE
- STRAIN MEASUREMENT
  • STRAIN MEASUREMENT
    USE LECTURES
NASA THESAURUS SUPPLEMENT (PART 1)

STRAIN MEASUREMENT- (CONT.)
• SULFIDATION
  • STS-31
  • STRATEGIC MATERIALS
    • SYNCHROPHASING
    • SUPERCRITICAL AIRFOILS
      • SUPERCRITICAL AIRFOILS
        • SUPERLATTICES
          • TATB

STRANGE ATTRACTIONS
• CHAOS
  • FRACTALS
    • IMBEDDINGS (MATHEMATICS)
    • ITERATIVE SOLUTION
      • NONLINEAR SYSTEMS
        • NUMERICAL STABILITY
          • PERTURBATION THEORY

STRATEGIC MATERIALS
• CHROMIUM
  • COOSALT
    • MANGANESE
      • STOCKPILING
        • TECHNOLOGY ASSESSMENT

• STS-13
  • USE SPACE SHUTTLE MISSION 41-C

• STS-14
  • USE SPACE SHUTTLE MISSION 41-D

• STS-24
  • USE SPACE SHUTTLE MISSION 41-E

• STS-27
  • USE SPACE SHUTTLE MISSION 41-F

• STS-28
  • USE SPACE SHUTTLE MISSION 41-G

• SWISS SPACE PROGRAM
  • GS PROGRAMS
    • SPACE PROGRAMS
      • SWISS SPACE PROGRAM
        • SWITZERLAND

SYMBIOTIC STARS
• GS CELESTIAL BODIES
  • STARS
    • BINARY STARS
      • SYMBIOTIC STARS
        • HOT STARS
          • BLUE STARS
            • SYMBIOTIC STARS
              • PECULIAR STARS
                • SYMBIOTIC STARS
                  • VARIABLE STARS
                    • SYMBIOTIC STARS
                      • EBON STARS

T
• TATB
  • TRIMETHYLMETHYIMINE
    • ROCKET OXIDIZERS
      • TATB
        • TRIMETHYLTRINITROBENZENE

TRANSATMOSPHERIC VEHICLES
• AEROSPACE VEHICLES
  • AEROSPACEPACKS
    • SPACECRAFT
      • SPACECRAFT DESIGN

TRANSIT NAVIGATION SYSTEM
• GS SATELLITE NAVIGATION SYSTEMS
  • TRANSIT NAVIGATION SYSTEM
    • NASA PROGRAMS
      • NAVIGATION SATELLITES
        • TRANSIT SATELLITES

TURBULENCE
• AERODYNAMIC NOISE
  • ACOUSTIC SCATTERING
    • AERODYNAMIC LOCATION
      • AIRCRAFT NOISE

THERMAL ANALYSIS
• UF DIFFERENTIAL THERMAL ANALYSIS
  • DTA (ANALYSIS)
    • RT ANALYSIS
      • HEAT TRANSFER RATES

THERMAL GRAVIMETRY
• USE THERMOGRAVIMETRY

THERMOGRAPHY
• RT INFRARED IMAGING
  • NONDESTRUCTIVE TESTS
    • HEAT TRANSFER RATES

THRUSTORS
• SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)
  • RT ION ENGINES

TIME TEMPERATURE PARAMETER
• RT AGING (METALLURGY)
  • AUSTENITIC STAINLESS STEELS

TOPPING CYCLE ENGINES
• RT AEROSPACE VEHICLES
  • LIQUID HYDROGEN PROPELLANTS

TRANSATMOSPHERIC VEHICLES
• GS EXPLOSIVES
  • TATB
    • ROCKET PROPPELLANTS

TRANSPORTER MANEUVERS
• USE TELEOPERATORS

TELESCOPE STRUCTURES
• USE FOLDING STRUCTURES

TEMPERATURE RATIO
• RT DATA CORRELATION

TEMPERATURE
• USE THERMOGRAVIMETRY

TEMPERATURE
• USE THERMOGRAVIMETRY

TEMPERATURE RATIO
• RT DATA CORRELATION

TEMPERATURE RATES
• USE THERMOGRAVIMETRY

TEMPERATURE
• USE THERMOGRAVIMETRY

TEMPERATURE GRADIENTS
• USE THERMOGRAVIMETRY

TEMPERATURE DISTRIBUTION
• USE THERMOGRAVIMETRY

TIP VANE
• GS ROTATING BODIES
  • TIP VANE

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• GS ROTATING BODIES
  • TIP VANE

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• GS ROTATING BODIES
  • TIP VANE

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  • TIP VANE

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• GS ROTATING BODIES
  • TIP VANE
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
    EXCIмер LASERS
    LASER MATERIALS
    LASER OUTPUTS
    ULTRAVIOLET LASERS

Y

• YUKON TERRITORY
  GS NATIONS
    CANADA
    YUKON TERRITORY
NASA THESAURUS SUPPLEMENT

PART 2
ACCESS VOCABULARY

A
A, SIR-
USE SHUTTLE IMAGING RADAR
A, Space Shuttle Mission 31-
USE SPACE SHUTTLE MISSION 31-A
A, Space Shuttle Mission 41-
USE SPACE SHUTTLE MISSION 41-A
A, Space Shuttle Mission 51-
USE SPACE SHUTTLE MISSION 51-A
A-310 AIRCRAFT
A-320 AIRCRAFT
Access, Demand Assignment Multiple
USE DEMAND ASSIGNMENT MULTIPLE ACCESS
ACCOUNTING
ACCRETION DISKS
Accuracy, Geodetic
USE GEODETIC ACCURACY
Accuracy, Geometric
USE GEOMETRIC ACCURACY
ACEE PROGRAM
Acid, Nitrous
USE NITROUS ACID
Activity, Stellar
USE STELLAR ACTIVITY
ADA (PROGRAMMING LANGUAGE)
Adenosine Monophosphate, Cyclic
USE CYCLIC AMP
AEROASSIST
AEROBRAKING
AERCAPTURE
Aerodynamic And Struct Test, Drones For
USE DART PROGRAM
Aerodynamics, Interactional
USE INTERACTIONAL AERODYNAMICS
AEROELASTIC RESEARCH WINGS
AEROMAGNETISM
AEROMANEUVERING
AGROPHYSICAL UNITS
Aided Design, Computer
USE COMPUTER AIDED DESIGN
Aided Manufacturing, Computer
USE COMPUTER AIDED MANUFACTURING
Aided Mapping, Computer
USE COMPUTER AIDED MAPPING
Air Pollution, Indoor
USE INDOOR AIR POLLUTION
AIR START
AIRBORNE LASERS
Aircraft, A-310
USE A-310 AIRCRAFT
Aircraft, A-320
USE A-320 AIRCRAFT
Aircraft, AV-8B
USE HARRIER AIRCRAFT
Aircraft, Chinese
USE CHINESE AIRCRAFT
Aircraft, Electric
USE FLY BY WIRE CONTROL
Aircraft Energy Efficiency Program
USE ACEE PROGRAM
Aircraft, Highly Maneuverable
USE HIGHLY MANEUVERABLE AIRCRAFT
AIRCRAFT POWER SUPPLIES
Aircraft, Ultralight
USE ULTRALIGHT AIRCRAFT
Aircraft, US-2A
USE S-2 AIRCRAFT
Aircraft, Vertical Attitude Takeoff-Landing
USE VATOL AIRCRAFT
Airfoils, Supercritical
USE SUPERCRI TICAL AIRFOILS
ALBERTA
Alcock Comet, Iras-Araki-
USE IRAS-ARI K-A-LCOCK COMET
ALLENE METERORITE
Amp, Cyclic
USE CYCLIC AMP
AMPHITRITE ASTEROID
Analysis, Cluster
USE CLUSTER ANALYSIS
Analysis, Data Flow
USE DATA FLOW ANALYSIS
Analysis, Gas Path
USE GAS PATH ANALYSIS
Analysis, Image
USE IMAGE ANALYSIS
Analysis, Multitemporal
USE TEMPORAL RESOLUTION
Analysis, Principal Components
USE PRINCIPAL COMPONENTS ANALYSIS
Analysis, Thermal
USE THERMAL ANALYSIS
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### Mission 51-E, Space Shuttle
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### Mission 51-F, Space Shuttle
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### Missions, Space Shuttle
- USE SPACE SHUTTLE MISSIONS

### Mixing Depth
- USE MIXING HEIGHT

### MOBILE COMMUNICATION SYSTEMS

### Mode Coupling
- USE COUPLED MODES
Origin Of Plasmas In Earth Neighborhood

Potentials, Lennard-Jones
USE LENNARD-JONES POTENTIAL

Power Plants, Solar Thermal Electric
USE SOLAR THERMAL ELECTRIC POWER PLANTS

Power Supplies, Aircraft
USE AIRCRAFT POWER SUPPLIES

Polar Cusps

PLASMA ANTENNAS

PLASMA BUBBLES

Plasmas In Earth Neighborhood, Origin Of
USE OPEN PROJECT

Plasmas, Tearing Modes
USE TEARING MODES (PLASMAS)

Plus Solid Zones, Liquid
USE MUSHY ZONES

POLAR CUSPS

POLARITONS

Pollution, Indoor Air
USE INDOOR AIR POLLUTION

Polybrominated Biphenyls

Pseudo Potential
USE PSEUDOPOTENTIALS

Program, ACEE
USE ACEE PROGRAM

Program, Aircraft Energy Efficiency
USE ACEE PROGRAM

Program, Brazilian Space
USE BRAZILIAN SPACE PROGRAM

Program, DAST
USE DAST PROGRAM

Program, Defense Meteorological Satellite
USE DMSP SATELLITES

Program, Energy Efficiency Transport
USE ACEE PROGRAM

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

Program, Swedish Space
USE SWEDISH SPACE PROGRAM

Program, Swiss Space
USE SWISS SPACE PROGRAM

Program, Vega
USE VEGA PROJECT

Properties, Asymptotic
USE ASYMPTOTIC PROPERTIES

Protocol (Computers)
Pseudopotentials

PUBLIC SPEAKING

Pulse Repetition Rate

Pumped Lasers, Solar-Use Solar-Pumped Lasers

P78-2 Satellite
USE SCATHA SATELLITE

Query Languages

Radar, Imaging
USE IMAGING RADAR

Radar, Shuttle Imaging
USE SHUTTLE IMAGING RADAR

RADARSAT

Radiation Medicine
USE NUCLEAR MEDICINE

Radiocardiography

Ramjet, Integral Rocket
USE INTEGRAL ROCKET RAMJETS

Ranging, Sound Fixing And
USE SOUND FIXING AND RANGING

Rate, Bit Error
USE BIT ERROR RATE

Rate, Pulse Repetition
USE PULSE REPETITION RATE

Ratio, Temperature
USE TEMPERATURE RATIO

Ratioing, Band
USE BAND RATIOING

Ray Imaging Scope, Low Intensity X
USE LIXISCOPE

Ray Timing Explorer, X
USE X RAY TIMING EXPLORER

Rayleigh-Benard Convection

Rays, Galactic Cosmic
USE GALACTIC COSMIC RAYS

Reagents

Rearward Facing Steps
USE BACKWARD FACING STEPS

Receivers, Solar
USE SOLAR RECEIVERS

Rectifiers, Reverse Switching
USE REVERSE SWITCHING RECTIFIERS
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<td>Speed Photography, High</td>
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<td>SPRING (SEASON)</td>
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<td>USE MULTIVIBRATORS</td>
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<td>Stars, Double</td>
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<td>Stars, Pre-Main Sequence Stars</td>
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<td>USE AIR START</td>
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<td>States, United</td>
<td>USE UNITED STATES</td>
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STATIC CHARACTERISTICS

STATIC MODELS

stellar activity

stellar color

stellar composition

stellar cores

steps, backward facing

steps, rearward facing

stereophonic

storage, magnetic energy

strain measurement

strange attractors

strategic materials

strength, residual

strength, oscillator

struct test, drones for aerodynamic and

structures, data

structures, telescoping

stts-13

stts-14

stts-17

stts-19

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stts-21

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sulfidation

supercomputers

supercritical airfoils

superlattices

supplies, aircraft power

surface noise interactions

surface temperature, sea

surfaces, minimal

surfaces, selective

susceptibility, magnetic

swath width

swedish space program

swiss space program

switching rectifiers, reverse

symbolic stars

synchrophasing

system, teleoperator maneuvering

system, transit navigation

systems design, control

systems, dynamical

systems, embedded computer

systems, expert

systems, flight management

systems, geographic information

systems, integrated library

systems, mobile communication

systems, sortie

systems, virtual memory

t

tagn

taiwan

takeoff-landing aircraft, vertical attitude

tapes, heat

tab

taylor-goertler instability

tearing modes (plasmas)

technology satellite, meteorid

telecomm satellite, european large

teleoperator maneuvering system

telescope facility, space infrared

telecope, hubble space

telecope, solar optical

telecope, space

telecommuting structures

temperature parameter, time

temperature ratio

temperature, sea surface

temperature, spin

temporal, multi

territories, northwest

territory, yukon

test, bruceton

test, drones for aerodynamic and struct

tests, burst

test, teleoperator maneuvering system

test, transit navigation system

tests, burst

time temperature parameter

timing explorer, x ray

tip vanes

tips, crack

tools, software

topping cycle engines

towers, whirl

tower, whirl
(Trademark), Borazon

USE BORON NITRIDES

TRANSATMOSPHERIC VEHICLES

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

VIDEO SIGNALS

VIRIAL COEFFICIENTS

VIRTUAL MEMORY SYSTEMS

VLSI
USE VERY LARGE SCALE INTEGRATION

VOLTAGE CONTROLLED OSCILLATORS

VORTEX PRECESSION

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 AERODYNAMIC WINGS

Wings, Cranked
USE SWEPT WINGS

Wolfram
USE TUNGSTEN

X

X Ray Imaging Scope, Low Intensity
USE LINUSCOPES

X RAY TIMING EXPLORER

XENON CHLORIDE LASERS

Y

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

NUMERICAL LISTING

1, SEASAT
USE SEASAT 1

2 Satellite, P78-
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, Sorad
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

999, 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

BARYON RESONANCES
Transferred to BARYON RESONANCE

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

COMPUTERIZED DESIGN
Transferred to COMPUTER AIDED DESIGN

CONDENSERS (LIQUIFERS)
Transferred to CONDENSERS (LIQUEFIERS)

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 492 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
Deleted

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
Deleted

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 APERATURE 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 5B SATELLITE
INTELSAT 5C SATELLITE
INTELSAT 5F SATELLITE
Transferred to INTELSAT SATELLITES

INTERNATIONAL SOLAR POLAR MISSION
Transferred to ULYSSES MISSION

ISSE A
Use INTERNATIONAL SUN EARTH EXPLORER 1
Deleted

ISSE B
Use INTERNATIONAL SUN EARTH EXPLORER 2
Deleted

ISSE C
Use INTERNATIONAL SUN EARTH EXPLORER 3
Deleted

ISSE 1
Use INTERNATIONAL SUN EARTH EXPLORER 1
Deleted

ISSE 2
Use INTERNATIONAL SUN EARTH EXPLORER 2
Deleted

ISSE 3
Use INTERNATIONAL SUN EARTH EXPLORER 3
Deleted

K-MESONS
Transferred to KAONS

LANDSAT C
Use LANDSAT 3
Deleted

LANDSAT D
Transferred to LANDSAT 4
LARGE SPACE TELESCOPE
Transferred to HUBBLE SPACE TELESCOPE

LES
Use LINCOLN EXPERIMENTAL SATELLITE
Changed to LES (SATELLITES)
Use LINCOLN EXPERIMENTAL SATELLITES

LOW INTENSITY X-RAY IMAGING SCOPE
Transferred to LOW INTENSITY X RAY IMAGING SCOPE

LOW INTENSITY X-RAY IMAGING SCOPE
RADIATION MEDICINE
Transferred to NUCLEAR MEDICINE

RCA SATCOM C
RCA SATCOM 1
RCA SATCOM 2
Transferred to RCA SATCOM SATELLITES

RECTANGULAR GUIDES
Transferred to RECTANGULAR WAVEGUIDES

RUMANIA
Use RUMANIA
Deleted

RUMANIA
Transferred to ROMANIA

RCA SATCOM SATELLITES

VERTICAL ATTITUDE TAKEOFF-LANDING AIRCRAFT
Use VOTAL AIRCRAFT
Changed to VERTICAL ATTITUDE TAKEOFF-LANDING AIRCRAFT
Use VATOL AIRCRAFT

VERTICAL ATTITUDE TAKEOFF-LANDING AIRCRAFT

SPACE TRANSPORTATION SYSTEM 5 FLIGHT
SPACE TRANSPORTATION SYSTEM 6 FLIGHT
SPACE TRANSPORTATION SYSTEM 7 FLIGHT
SPACE TRANSPORTATION SYSTEM 8 FLIGHT
SPACE TRANSPORTATION SYSTEM 9 FLIGHT
SPACE TRANSPORTATION SYSTEM 10 FLIGHT
SPACE TRANSPORTATION SYSTEM 11 FLIGHT
SPACE TRANSPORTATION SYSTEM 12 FLIGHT
SPACE TRANSPORTATION SYSTEM 13 FLIGHT
SPACE TRANSPORTATION SYSTEM 14 FLIGHT
SPACE TRANSPORTATION SYSTEM 15 FLIGHT

TRANSIT 1A SATELLITE
TRANSIT 1B SATELLITE
TRANSIT 2A SATELLITE
TRANSIT 2B SATELLITE
TRANSIT 4A SATELLITE
TRANSIT 4B SATELLITE
TRANSIT 5A SATELLITE
Transferred to TRANSIT SATELLITES

TRANSIT 5A SATELLITE

TEARING MODE (PLASMAS)
Transferred to TEARING MODES (PLASMAS)

TIROS N SATELLITES
Transferred to TIROS N SERIES SATELLITES

THRUSTORS
Use ROCKET ENGINES
Deleted, term now postable

UNITED ARAB REPUBLIC
Deleted

UNITED STATES OF AMERICA
Transferred to UNITED STATES

UPPER VOLTA
Transferred to BURKINA
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.