PREFACE

This Handbook is a guide for the use of all personnel engaged in handling NASA files. It is issued in accordance with the regulations of the National Archives and Records Administration, in the Code of Federal Regulations Title 36, Part 1224, Files Management; and the Federal Information Resources Management Regulation, Subpart 201-45.108, Files Management.

It is intended to provide a standardized classification and filing scheme to achieve maximum uniformity and ease in maintaining and using agency records. It is a framework for consistent organization of information in an arrangement that will be useful to current and future researchers.

The NASA Uniform Files Index coding structure is composed of the subject classification table used for NASA management directives and the subject groups in the NASA scientific and technical information system. It is designed to correlate files throughout NASA and it is anticipated that it may be useful with automated filing systems.

It is expected that in the conversion of current files to this arrangement it will be necessary to add tertiary subjects and make further subdivisions under the existing categories. Established primary and secondary subject categories may not be changed arbitrarily. Proposals for additional subject categories of NASA-wide applicability, and suggestions for improvement in this handbook should be addressed to the Records Program Manager at the pertinent installation who will forward it to the NASA Records Management Office, Code NTR, for approval.

This Handbook is issued in loose-leaf form and will be revised by page changes.

NHB 1442.1, dated June 1985, is cancelled.

Arell E. Weaver
Acting Assistant Associate Administrator,
Information Resources Management
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INTRODUCTION

NHB 1442.1A, NASA Uniform Files Index, is to be used to establish a standard pattern of files in NASA Offices. It can be used whether the control system is manually operated or computer based. A file is a collection of related records. Each record in a file is included because it pertains to the same agency business.

The arrangement can be used by any NASA office regardless of the size and volume of files. It is not necessary for offices to set up files in all subject categories. Only those subjects which reflect actual responsibilities should be selected for the office files outline.

Records provide the information essential to the agency's efficient and continued operation. The usefulness of recorded information is largely dependent upon the logical arrangement and file organization determines how the records will be retrieved.

Whether an office maintains a large volume of records or merely a few files, they should be kept in such a manner that persons can readily obtain them when needed. The records of an office must remain usable regardless of personnel or organizational changes. It is necessary, therefore that some deliberate plan be used for filing records so that a "finding key" to the information will be available and the file arrangement will be understandable to all persons who use the records. Use of the NASA Uniform Files Index will simplify the inevitable transfer of custodianship of the files to other employees.

Some current file categories that follow established patterns which have been adopted for agency use are: Contract Files/Procurement follow the Federal Acquisitions Regulations (FAR); Personnel (Human Resources) Files follow the Personnel Management Manual (PMM); and, Financial Management Files follow the Financial Management Manual (FMM).

STEPS TO FOLLOW:

1. The first step is to list current office files. Do not include old inactive files in this listing.

2. Compare this list to the NASA Uniform Files Index, number like files, and rearrange in numerical order at the earliest convenience.

It may be necessary to add subdivisions under existing categories. Subdivisions, such as the name of projects, contract numbers, and work categories are logical extensions and should be assigned arabic numerals. For example, 3451--Incentive Awards, can be divided by making the following subdivision: 3451.1--Step Increases (Routine) and 3451.2--Quality Step Increases (QSI).
Selection of the file subject categories is based upon office functions. All incoming items are acted upon according to recognizable work subjects. If one can clearly distribute incoming mail in an orderly manner, the identical pattern in determining primary subject headings for files is applicable. Subdivisions are most useful when they show the natural categories under which incoming work is sorted for action (such as the preceding example). The primary subject should define incoming work according to the program. Secondary subjects define the work according to the action assignment.

3. Make a final listing of the files and their associated numbers to be used as a guide in locating and refiling records. Place this guide in a convenient location accessible to office personnel.

Filing, retrieval and refiling of records will become easier as familiarity with use of the index increases. There is a relative subject index located at the back of the handbook to help determine file categories.

4. Add any new files as required and periodically update the file listing.

REMEMBER . . .

WHERE YOU FILE IT IS

WHERE YOU FIND IT!
# NASA UNIFORM FILES INDEX

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3000-3999 | PERSONNEL
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03 AIR TRANSPORTATION AND SAFETY
04 AIRCRAFT COMMUNICATIONS AND NAVIGATION
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AERONAUTICS
Includes aeronautics (general); aerodynamics; air transportation and safety; aircraft communications and navigation; aircraft design, testing and performance; aircraft instrumentation; aircraft propulsion and power; aircraft stability and control; and research and support facilities (air).
For related information see also Astronautics.

01 AERONAUTICS (GENERAL)

02 AERODYNAMICS
Includes aerodynamics of bodies, combinations, wings, rotors, and control surfaces; and internal flow in ducts and turbomachinery.
For related information see also 34 Fluid Mechanics and Heat Transfer.

03 AIR TRANSPORTATION AND SAFETY
Includes passenger and cargo air transport operations; and aircraft accidents.
For related information see also 16 Space Transportation and 55 Urban Technology and Transportation.

04 AIRCRAFT COMMUNICATIONS AND NAVIGATION
Includes digital and voice communication with aircraft; air navigation systems (satellite and ground based); and air traffic control.
For related information see also 17 Space Communications, Spacecraft Communications, Command and Tracking and 32 Communications and Radar.

05 AIRCRAFT DESIGN, TESTING AND PERFORMANCE
Includes aircraft simulation technology.
For related information see also 18 Spacecraft Design, Testing and Performance and 39 Structural Mechanics.

06 AIRCRAFT INSTRUMENTATION
Includes cockpit and cabin display devices; and flight instruments.
For related information see also 19 Spacecraft Instrumentation and 35 Instrumentation and Photography.

07 AIRCRAFT PROPULSION AND POWER
Includes prime propulsion systems and systems components, e.g., gas turbine engines and compressors; and onboard auxiliary power plants for aircraft.
For related information see also 20 Spacecraft Propulsion and Power, 28 Propellants and Fuels, and 44 Energy Production and Conversion.

08 AIRCRAFT STABILITY AND CONTROL
Includes aircraft handling qualities; piloting; flight controls; and autopilots.
For related information see also 05 Aircraft Design, Testing and Performance.

09 RESEARCH AND SUPPORT FACILITIES (AIR)
Includes airports, hangars and runways; aircraft repair and overhaul facilities; wind tunnels; shock tubes; and aircraft engine test stands.
For related information see also 14 Ground Support Systems and Facilities (Space).

ASTRONAUTICS
Includes astronautics (general); astrodynamics; ground support systems and facilities (space); launch vehicles and space vehicles; space transportation; space communications, spacecraft communications, command and tracking; spacecraft design, testing and performance; spacecraft instrumentation; and spacecraft propulsion and power.
For related information see also Aeronautics.

12 ASTRONAUTICS (GENERAL)
For extraterrestrial exploration see 01 Lunar and Planetary Exploration.

13 ASTRODYNAMICS
Includes powered and free-flight trajectories; and orbital and launching dynamics.

14 GROUND SUPPORT SYSTEMS AND FACILITIES (SPACE)
Includes launch complexes, research and production facilities; ground support equipment, e.g., mobile transporters; and simulators.
For related information see also 09 Research and Support Facilities (Air).

15 LAUNCH VEHICLES AND SPACE VEHICLES
Includes boosters; operating problems of launch/space vehicle systems; and reusable vehicles.
For related information see also 20 Spacecraft Propulsion and Power.

16 SPACE TRANSPORTATION
Includes passenger and cargo space transportation, e.g., shuttle operations; and space rescue techniques.
For related information see also 03 Air Transportation and Safety and 18 Spacecraft Design, Testing and Performance.
For space suits see 54 Man/System Technology and Life Support.

17 SPACE COMMUNICATIONS, SPACECRAFT COMMUNICATIONS, COMMAND AND TRACKING
Includes telemetry; space communications networks; astronautical navigation and guidance; and radio blackout.
For related information see also 04 Aircraft Communications and Navigation and 32 Communications and Radar.

18 SPACECRAFT DESIGN, TESTING AND PERFORMANCE
Includes satellites; space platforms; space stations; spacecraft systems and components such as thermal and environmental controls; and attitude controls.
For life support systems see 54 Man/System Technology and Life Support.
For related information see also 05 Aircraft Design, Testing and Performance, 39 Structural Mechanics, and 16 Space Transportation.

19 SPACECRAFT INSTRUMENTATION
For related information see also 06 Aircraft Instrumentation and 35 Instrumentation and Photography.

20 SPACECRAFT PROPULSION AND POWER
Includes main propulsion systems and components, e.g., rocket engines; and spacecraft auxiliary power sources.
For related information see also 07 Aircraft Propulsion and Power, 28 Propellants and Fuels, 44 Energy Production and Conversion, and 15 Launch Vehicles and Space Vehicles.
CHEMISTRY AND MATERIALS
Includes chemistry and materials (general); composite materials; inorganic and physical chemistry; metallic materials; nonmetallic materials; propellants and fuels; and materials processing.

23 CHEMISTRY AND MATERIALS (GENERAL)

24 COMPOSITE MATERIALS
Includes physical, chemical, and mechanical properties of laminates and other composite materials.
For ceramic materials see 27 Nonmetallic Materials.

25 INORGANIC AND PHYSICAL CHEMISTRY
Includes chemical analysis, e.g., chromatography; combustion theory; electrochemistry; and photochemistry.
For related information see also 77 Thermodynamics and Statistical Physics.

26 METALLIC MATERIALS
Includes physical, chemical, and mechanical properties of metals, e.g., corrosion; and metallurgy.

27 NONMETALLIC MATERIALS
Includes physical, chemical, and mechanical properties of plastics, elastomers, lubricants, polymers, textiles, adhesives, and ceramic materials.
For composite materials see 24 Composite Materials.

28 PROPELLANTS AND FUELS
Includes rocket propellants, igniters and oxidizers; their storage and handling procedures; and aircraft fuels.
For related information see also 07 Aircraft Propulsion and Power, 20 Spacecraft Propulsion and Power, and 44 Energy Production and Conversion.

29 MATERIALS PROCESSING
Includes space-based development of products and processes for commercial application.
For biological materials see 55 Space Biology.

ENGINEERING
Includes engineering (general); communications and radar; electronics and electrical engineering; fluid mechanics and heat transfer; instrumentation and photography; lasers and masers; mechanical engineering; quality assurance and reliability; and structural mechanics.
For related information see also Physics.

31 ENGINEERING (GENERAL)
Includes vacuum technology; control engineering; display engineering; cryogenics; and fire prevention.

32 COMMUNICATIONS AND RADAR
Includes radar; land and global communications; communications theory; and optical communications.
For related information see also 04 Aircraft Communications and Navigation and 17 Space Communications, Spacecraft Communications, Command and Tracking. For search and rescue see 03 Air Transportation and Safety, and 16 Space Transportation.

33 ELECTRONICS AND ELECTRICAL ENGINEERING
Includes test equipment and maintainability; components, e.g., tunnel diodes and transistors; microminiaturation; and integrated circuitry.
For related information see also 60 Computer Operations and Hardware and 76 Solid-State Physics.

34 FLUID MECHANICS AND HEAT TRANSFER
Includes boundary layers; hydrodynamics; fluidics; mass transfer and ablation cooling.
For related information see also 02Aerodynamics and 77 Thermodynamics and Statistical Physics.

35 INSTRUMENTATION AND PHOTOGRAPHY
Includes remote sensors; measuring instruments and gages; detectors; cameras and photographic supplies; and holography.
For aerial photography see 43 Earth Resources and Remote Sensing. For related information see also 06 Aircraft Instrumentation and 19 Spacecraft Instrumentation.

36 LASERS AND MASERS
Includes parametric amplifiers.
For related information see also 76 Solid-State Physics.

37 MECHANICAL ENGINEERING
Includes auxiliary systems (nonpower); machine elements and processes; and mechanical equipment.

38 QUALITY ASSURANCE AND RELIABILITY
Includes product sampling procedures and techniques; and quality control.

39 STRUCTURAL MECHANICS
Includes structural element design and weight analysis; fatigue; and thermal stress.
GEOSCIENCES
Includes geosciences (general); earth resources and remote sensing; energy production and conversion; environment pollution; geophysics; meteorology and climatology; and oceanography.
For related information see also Space Sciences.

42 GEOSCIENCES (GENERAL)

43 EARTH RESOURCES AND REMOTE SENSING
Includes remote sensing of earth resources by aircraft and spacecraft; photogrammetry; and aerial photography.
For instrumentation see also 35 Instrumentation and Photography.

44 ENERGY PRODUCTION AND CONVERSION
Includes specific energy conversion systems, e.g., fuel cells; global sources of energy; geophysical conversion; and windpower.
For related information see also 07 Aircraft Propulsion and Power, 20 Spacecraft Propulsion and Power, and 28 Propellants and Fuels.

45 ENVIRONMENT POLLUTION
Includes atmospheric, noise, thermal, and water pollution.

46 GEOPHYSICS
Includes aeronomy; upper and lower atmosphere studies; ionospheric and magnetospheric physics; and geomagnetism.
For space radiation see also 93 Space Radiation.

47 METEOROLOGY AND CLIMATOLOGY
Includes weather forecasting and modification.

48 OCEANOGRAPHY
Includes biological, dynamic, and physical oceanography; and marine resources.
For related information see also 43 Earth Resources and Remote Sensing.

LIFE SCIENCES
Includes life sciences (general); aerospace medicine; behavioral sciences; man/system technology and life support; and space biology.

51 LIFE SCIENCES (GENERAL)

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

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

54 MAN/SYSTEM TECHNOLOGY AND LIFE SUPPORT
Includes human engineering; biotechnology; and space suits and protective clothing.
For related information see also 16 Space Transportation.

55 SPACE BIOLOGY
Includes exobiology; planetary biology; and extra-terrestrial life.

MATHEMATICAL AND COMPUTER SCIENCES
Includes mathematical and computer sciences (general); computer operations and hardware; computer programming and software; computer systems; cybernetics; numerical analysis; statistics and probability; systems analysis; and theoretical mathematics.

59 MATHEMATICAL AND COMPUTER SCIENCES (GENERAL)

60 COMPUTER OPERATIONS AND HARDWARE
Includes hardware for computer graphics, firmware, and data processing.
For components see also 33 Electronics and Electrical Engineering.

61 COMPUTER PROGRAMMING AND SOFTWARE
Includes computer programs, routines, algorithms, and specific applications, e.g., CAD/CAM.

62 COMPUTER SYSTEMS
Includes computer networks and special application computer systems.

63 CYBERNETICS
Includes feedback and control theory, artificial intelligence, robotics and expert systems.
For related information see also 54 Man/System Technology and Life Support.

64 NUMERICAL ANALYSIS
Includes iteration, difference equations, and numerical approximation.

65 STATISTICS AND PROBABILITY
Includes data sampling and smoothing; Monte Carlo method; and stochastic processes.

66 SYSTEMS ANALYSIS
Includes mathematical modeling; network analysis; and operations research.

87 THEORETICAL MATHEMATICS
Includes topology and number theory.
PHYSICS
Includes physics (general); acoustics; atomic and molecular physics; nuclear and high-energy physics; optics; plasma physics; solid-state physics; and thermodynamics and statistical physics.
For related information see also Engineering.

70 PHYSICS (GENERAL)
For precision time and time interval (PTTI) see 35 Instrumentation and Photography; for geophysics, astrophysics or solar physics see 46 Geophysics, 90 Astrophysics, or 92 Solar Physics.

71 ACOUSTICS
Includes sound generation, transmission, and attenuation.
For noise pollution see 45 Environment Pollution.

72 ATOMIC AND MOLECULAR PHYSICS
Includes atomic structure, electron properties, and molecular spectra.

73 NUCLEAR AND HIGH-ENERGY PHYSICS
Includes elementary and nuclear particles; and reactor theory.
For space radiation see 93 Space Radiation.

74 OPTICS
Includes light phenomena and optical devices.
For lasers see 36 Lasers and Masers.

75 PLASMA PHYSICS
Includes magnetohydrodynamics and plasma fusion.
For ionospheric plasmas see 46 Geophysics. For space plasmas see 90 Astrophysics.

76 SOLID-STATE PHYSICS
Includes superconductivity.
For related information see also 33 Electronics and Electrical Engineering and 36 Lasers and Masers.

77 THERMODYNAMICS AND STATISTICAL PHYSICS
Includes quantum mechanics; theoretical physics; and Bose and Fermi statistics.
For related information see also 25 Inorganic and Physical Chemistry and 34 Fluid Mechanics and Heat Transfer.

SOCIAL SCIENCES
Includes social sciences (general); administration and management; documentation and information science; economics and cost analysis; law, political science, and space policy; and urban technology and transportation.

80 SOCIAL SCIENCES (GENERAL)
Includes educational matters.

81 ADMINISTRATION AND MANAGEMENT
Includes management planning and research.

82 DOCUMENTATION AND INFORMATION SCIENCE
Includes information management; information storage and retrieval technology; technical writing; graphic arts; and micrography.
For computer documentation see 61 Computer Programming and Software.

83 ECONOMICS AND COST ANALYSIS
Includes cost effectiveness studies.

84 LAW, POLITICAL SCIENCE AND SPACE POLICY
Includes NASA appropriation hearings; aviation law; space law and policy; international law; international cooperation; and patent policy.

85 URBAN TECHNOLOGY AND TRANSPORTATION
Includes applications of space technology to urban problems; technology transfer; technology assessment; and surface and mass transportation.
For related information see 03 Air Transportation and Safety, 16 Space Transportation, and 44 Energy Production and Conversion.
SPACE SCIENCES
Includes space sciences (general); astronomy; astrophysics; lunar and planetary exploration; solar physics; and space radiation.
For related information see also Geosciences.

88 SPACE SCIENCES (GENERAL)

89 ASTRONOMY
Includes radio, gamma-ray, and infrared astronomy; and astrometry.

90 ASTROPHYSICS
Includes cosmology; celestial mechanics; space plasmas; and interstellar and interplanetary gases and dust.
For related information see also 75 Plasma Physics.

91 LUNAR AND PLANETARY EXPLORATION
Includes planetology; and manned and unmanned flights.
For spacecraft design or space stations see 18 Spacecraft Design, Testing and Performance.

92 SOLAR PHYSICS
Includes solar activity, solar flares, solar radiation and sunspots.
For related information see 93 Space Radiation.

93 SPACE RADIATION
Includes cosmic radiation; and inner and outer earth's radiation belts.
For biological effects of radiation see 52 Aerospace Medicine. For theory see 73 Nuclear and High-Energy Physics.

GENERAL
Includes aeronautical, astronautical, and space science related histories, biographies, and pertinent reports too broad for categorization; histories or broad overviews of NASA programs.

99 GENERAL
NASA SCIENTIFIC AND TECHNICAL INFORMATION FILES
SECONDARY SUBJECT IDENTIFICATION CODES

AERONAUTICS

01 AERONAUTICS (GENERAL)

RELATED TOPIC:
World Space Programs and Aerospace Law
NASA programs in general, foreign aerospace programs, international cooperation, law
related to space and aeronautics. Congressional aerospace hearings.

02 AERODYNAMICS

AERODYNAMIC CHARACTERISTICS
Lift, drag, and factors affecting pitch, roll and yaw.

AERODYNAMICS OF BODIES
Aerodynamics of bodies of revolution, cylinders, cones and lifting bodies.

AIRFOIL AND WING AERODYNAMICS
Aerodynamics of wings and airfoil shapes and forms; supercritical wing.

RELATED TOPICS:
Wind Tunnels
Wind tunnel and shock tube installations, test programs, and technology.

Boundary Layer Technology
Boundary layer flow and mechanics, including boundary layer control, combustion control,
separation, transition, and turbulence.

03 AIR TRANSPORTATION AND SAFETY

COMMERCIAL AND GENERAL AVIATION
Design, operation and maintenance of specific aircraft used in, or being developed for,
civil aviation; airports and facilities; air traffic control and navigation.

HELICOPTERS AND GROUND EFFECT MACHINES
Helicopters, rotary wing aircraft, ground effect machines, hovercraft, flying platforms,
etc.

STOL/VTOL AIRCRAFT
Aircraft capable of short or vertical takeoffs and landings.

SUPersonic TRANSPORT
Research in supersonic, transonic, and hypersonic transport types, concepts, specifications,
and performances.

AIRCRAFT NOISE AND SONIC BOOM
Aerodynamics, mechanical and combustion noise generated by aircraft and methods of
noise reduction.

AIRCRAFT SAFETY AND SAFETY DEVICES
Aircraft safety studies, accident investigation, air piracy, safety techniques and safety
devices.

CLEAR AIR TURBULENCE
Causes, effects, and methods of detection.

04 AIRCRAFT COMMUNICATIONS AND NAVIGATION

RELATED TOPIC:
Navigation Systems
Spacecraft and aircraft navigation systems including star trackers, inertial systems, Doppler
and stellar navigation; and navigation instruments.

See also topics under Subject Group 32, Communications
06 AIRCRAFT DESIGN, TESTING AND PERFORMANCE

HYDRAULIC AND PNEUMATIC SYSTEMS
Hydraulic and pneumatic components, systems, and instrumentation.

AUXILIARY ELECTRICAL SYSTEMS
Electric auxiliary power supply systems, distribution systems, components, and applications.

06 AIRCRAFT INSTRUMENTATION

RELATED TOPIC
Spacecraft and Aircraft Instrumentation
Spacecraft and aircraft instruments, gauges, indicators, and instrument systems.

07 AIRCRAFT PROPULSION AND POWER

JET PROPULSION
Turbojet, pulsejet, and ramjet propulsion systems including specific engines

08 AIRCRAFT STABILITY AND CONTROL

RELATED TOPICS
Aerodynamic Characteristics
Lift, drag, and factors affecting pitch, roll and yaw
Boundary Layer Technology
Boundary layer flow and mechanics, including boundary layer control, combustion control, separation, transition, and turbulence.

09 RESEARCH AND SUPPORT FACILITIES (AIR)

WIND TUNNELS
Wind tunnel and shock tube installations, test programs, and technology. See also Subject Group 02, Aerodynamics

RELATED TOPIC
Commercial and General Aviation
Design, operation and maintenance of specific aircraft used in, or being developed for, civil aviation: airports and facilities: air traffic control and navigation

ASTRONAUTICS

12 ASTRONAUTICS (GENERAL)

RELATED TOPIC
World Space Programs and Aerospace Law
NASA programs in general, foreign aerospace programs, international cooperation, law related to space and aeronautics, Congressional aerospace hearings

13 ASTRODYNAMICS

CELESTIAL MECHANICS AND ORBITAL CALCULATIONS
Mathematical calculations for celestial mechanics, spacecraft orbits and spacecraft and ballistic trajectories

14 GROUND SUPPORT SYSTEMS AND FACILITIES (SPACE)

SPACECRAFT GROUND SUPPORT
Launch facilities, control networks, vehicle maintenance and servicing. For spacecraft tracking stations and networks, see topics 17-04 and 32-03

TEST FACILITIES
Test ranges, centrifuges, engine test stands, rocket test installations, and reactor test facilities
SIMULATORS AND SIMULATION
Solar, space, and environment simulators, vacuum chambers, and simulation programs, methods, and technology.

STERILIZATION
Spacecraft sterilization, sterilization methods, clean rooms, and contamination control.

RELATED TOPICS:
Wind Tunnels
Wind tunnel and shock tube installations, test programs, and technology. See also Subject Group 02, Aerodynamics.

Tracking
Tracking installations, personnel, equipment, and systems using radio, radar, infrared, or optical techniques.

Communication Equipment
Communication equipment, including radio, microwave, infrared, light and television equipment.

15 LAUNCH VEHICLES AND SPACE VEHICLES

LAUNCH VEHICLES
Atlas, Saturn, Titan, other large and medium launch vehicles.

SOUNDING ROCKETS
Upper atmosphere aerology and meteorology probes and other small launch vehicles.

SPACE PROBES
Lunar and planetary probes, including Pioneer, Ranger, Mariner, Voyager, and deep space probes.

SCIENTIFIC SATELLITES
Geophysical and astronomical satellites, orbiting observatories, Discoverer and Explorer satellites.

REENTRY VEHICLES
All vehicles and maneuverable vehicles capable of entering a planetary atmosphere, also decelerators, drogues and other devices used with reentry vehicles, lifting bodies. See also 16-01, Space Transportation and Manned Spacecraft.

U.S.S.R. SPACECRAFT
All U.S.S.R. spacecraft and programs, manned and unmanned.

RELATED TOPICS:
Spacecraft Ground Support
Launch facilities, control networks, vehicle maintenance and servicing. For spacecraft tracking stations and networks, see 17-04 and 32-03.

Spacecraft and Aircraft Instrumentation
Spacecraft and aircraft instruments, gauges, indicators, and instrument systems.

Communication Satellites
INTELSAT, WESTAR, MARISAT, and other domestic and foreign communication satellites.

Meteorological Satellites
Nimbus, Tiros, and meteorological data from satellites.

16 SPACE TRANSPORTATION

SPACE TRANSPORTATION AND MANNED SPACECRAFT
All manned space vehicles, including the Shuttle, Apollo, Skylab, Spacelab, Apollo-Soyuz Test Program, and other orbiting laboratories and manned flights. For U.S.S.R. spacecraft, see 15-06.

17 SPACECRAFT COMMUNICATIONS, COMMAND AND TRACKING

SPACE COMMUNICATIONS
Reentry, lunar, interplanetary, satellite, and spacecraft communications. Does not include references to Communication Satellites, for which see 32-01.
NAVIGATION SYSTEMS
Spacecraft and aircraft navigation systems including star trackers, inertial systems, Doppler and stellar navigation; and navigation instruments.

GUIDANCE SYSTEMS
Spacecraft guidance and control, midcourse guidance and reentry guidance, and spacecraft guidance systems.

TRACKING
Tracking installations, personnel, equipment, and systems using radio, radar, infrared, or optical techniques.

RELATED TOPICS:
Radar Equipment
Radar types, applications and component parts.
Antennas
Radar and radio antennas and applications.
See also topics under Subject Group 32, Communications.

18 SPACECRAFT DESIGN, TESTING AND PERFORMANCE

SPACECRAFT ATTITUDE CONTROL AND STABILIZATION
Attitude control system, stability techniques, and instrumentation.

RENEZVOUS AND DOCKING
Rendezvous guidance, rendezvous trajectories and docking techniques.

19 SPACECRAFT INSTRUMENTATION

SPACECRAFT AND AIRCRAFT INSTRUMENTATION
Spacecraft and aircraft instruments, gauges, indicators, and instrument systems.

SENSORS AND TRANSDUCERS
Sensing elements used in space vehicles or aerospace services: pressure, temperature, acoustic transducers, etc.

RELATED TOPICS:
Navigation Systems
Spacecraft and aircraft navigation systems including star trackers, inertial systems, Doppler and stellar navigation, and navigation instruments.
Telemetry
Data transmission and measuring, biotelemetry, telephotometry, and telepsychometry.
Bioinstrumentation
Biotelemetry, medical electronics, physiological monitoring, biological measurement, and biological data handling.
See also other topics under Subject Group 32. Communications.

20 SPACECRAFT PROPULSION AND POWER

ROCKET ENGINES, NOZZLES AND THRUST CHAMBERS
Specific engines used in rocket propulsion, nozzle and thrust chamber design, materials, and performance.

AUXILIARY PROPULSION
Spacecraft propulsion systems other than the main propulsion system (i.e., steering jets, retrorockets, and propulsion units for extravehicular operations).

ELECTRIC PROPULSION
Propulsion systems by charged electrical particles accelerated by electrical or magnetic fields; includes electromagnetic and electrostatic propulsion.

RELATED TOPIC:
Jet Propulsion
Turbojet, pulsejet, and ramjet propulsion systems including specific engines.
See also topics under Subject Group 44, Energy Production and Conversion.
CHEMISTRY AND MATERIALS

23 CHEMISTRY AND MATERIALS (GENERAL)
CHEMICAL ANALYSIS
Qualitative, quantitative, X-ray, chromatography, and other analytical techniques.

CHEMICAL PROCESSES AND ENGINEERING
Chemical processes and specific chemical reactions such as oxidation, nitration, hydrogenation, etc.

LUMINESCENCE
Chemiluminescence, fluorescence, phosphorescence, bioluminescence, and related topics.

PHOTOCHEMISTRY
Photolysis, photosynthesis, and actinometry.

RELATED TOPIC:
Biochemistry
Chemistry of living organisms and physiochemistry.

24 COMPOSITE MATERIALS
COMPOSITE MATERIALS
Types of composite materials, including laminates, sandwich materials and ceramets; properties and uses.

REINFORCED MATERIALS AND FIBERS
Materials reinforced by inclusions, fiber reinforcement, whiskers, filament wound vessels.

25 INORGANIC AND PHYSICAL CHEMISTRY
CORROSION
Metal corrosion, stress corrosion, corrosion prevention, and tests for corrosion.

METAL CRYSTALS
Structure, defects, and technology of metal crystals.

COATINGS
Types of coatings, properties and uses; coating techniques.

ELECTROCHEMISTRY
Electrochemical processes, electrolysis, and electrolytic processes.

26 METALLIC MATERIALS
ALUMINUM
Aluminum, aluminum alloys, compounds and powdered aluminum; properties and uses.

BERYLLIUM
Beryllium, beryllium alloys and compounds; properties and uses.

LIQUID METALS
Characteristics, properties, technology, and uses of liquid metals.

STEEL
Types of steel and stainless steel alloys; properties and uses.

TITANIUM
Titanium and titanium alloys, properties and uses.

REFRACTORY METALS
Refractory metals and alloys, and superalloys; properties and uses.

METALLURGY
Powder metallurgy, sintering, fractography and metallography.

27 NONMETALLIC MATERIALS
PLASTICS
Specific plastics, thermoplastics, resins, thermosetting plastics, high temperature plastics, silicones and styrenes; properties and uses.
ADHESIVES
Types of adhesives, properties and uses.

CERAMICS
Specific ceramics, properties, and uses.

ELASTOMERS
Specific elastomers, properties and uses.

GRAPHITE
Graphite, pyrolitic graphite, pyrographic alloy; properties and uses.

POLYMERS
Types of polymers, properties and uses; polymer chemistry and polymer physics.

28 PROPELLANTS AND FUELS

LIQUID PROPELLANTS
Cryogenic, hydrogenic, and thixotropic propellants; uses, properties, manufacture, storage and handling; oxidizers and igniters used with liquid propellants.

SOLID PROPELLANTS
Types, uses, properties; manufacture, storage and handling, propellant grain studies, and oxidizers and igniters used with solid propellants.

ENGINEERING

31 ENGINEERING (GENERAL)

RELATED TOPICS:
See specific topics under Subject Groups 32-39.

32 COMMUNICATIONS

COMMUNICATION SATELLITES
INTELSAT, WESTAR, MARISAT, and other domestic and foreign communications satellites.

COMMUNICATION EQUIPMENT
Communication equipment, including radio, microwave, infrared, light and television equipment.

COMMUNICATION SYSTEMS
Types of communication systems; e.g., television, digital, etc., and specific systems; e.g., Defense Communication Systems, Deep Space Network, etc.

TELEMETRY
Data transmission and measuring biotelemetry, telephotometry, and telespsychometry.

RADIO NOISE
Studies of radio noise sources, random noise, signal-to-noise ratio, noise reduction, and noise measurement.

COMMUNICATION THEORY
Information theory, coding automata theory, signal processing, and decision theory.

RELATED TOPICS:
Radar Equipment
Radar types, applications and component parts.

Antennas
Radar and radio antennas and applications.

See also topics under Subject Group 17, Spacecraft Communications, Command and Tracking.

33 ELECTRONICS AND ELECTRICAL ENGINEERING

RADAR EQUIPMENT
Radar types, applications, and component parts.
SEMICONDUCTORS AND TRANSISTORS
Semiconductors and transistors; types, devices, materials, and applications. See also Solid State Devices. 76-01.

ANTENNAS
Radar and radio antennas and applications.

ELECTRONIC COMPONENTS
Types, design, applications, packaging, and reliability.

CIRCUITRY
Circuit theory, production techniques, reliability, protection, and applications. For microcircuits see 33-10, Microelectronics.

ELECTRICAL EQUIPMENT
Generators, motors, connectors, and insulation; design and application.

AMPLIFIERS
Types of electronic amplifiers, design, and application. For fluid amplifiers see also 34-03, Fluidics.

FEEDBACK AND CONTROL THEORY
Systems, techniques, and designs.

ELECTROMAGNETIC RADIATION
Wave propagation, electromagnetic effects, properties, detection, and application.

MICROELECTRONICS
Microcircuits, microelectronic devices and components, microminiaturized electronic equipment.

MICROWAVE AND SUBMILLIMETER WAVE TECHNOLOGY
Microwave research, measurement techniques, generation, modulation, and absorption.

MAGNETISM
Theory and research, aeromagnetism, ferromagnetism, hydromagnetism, paramagnetism, and thermomagnetism.

RELATED TOPICS:
Auxiliary Electrical Systems
Electric auxiliary power supply systems, distribution systems, components, and applications.

Communication Equipment
Communication equipment, including radio, microwave, infrared, light, and television equipment.

34 FLUID MECHANICS AND HEAT TRANSFER
BOUNDARY LAYER TECHNOLOGY
Boundary layer flow and mechanics, including boundary layer control, combustion control, separation, transition, and turbulence.

GAS DYNAMICS
Applied and theoretical gas dynamics, problem solving, hypersonic and rarefied gas dynamics.

FLUIDICS
Fluid amplification, fluid logic circuits, and fluid devices.

FLUID FLOW
Liquid flow, hydromechanics, and cavitation flow; does not include gas or air flow.

COMBUSTION PHYSICS
Combustion phenomena, kinetics, instability, detonation, theory.

HEAT TRANSFER, BASIC
Characteristics and studies of various forms of heat transfer, heat dissipation, and heat resistance.

REENTRY HEAT TRANSFER
Heat transfer problems on reentry and their solution.
THERMAL PROTECTION
Methods and materials used in thermal insulation and protection and for various types of cooling.

ABLATION
Ablation studies, ablating materials, and application to reentry vehicles and rocket nozzles.

CRYOGENICS
Low temperature research. For cryogenic propellants see 28-01.

RELATED TOPICS:
Aerodynamic Characteristics
Lift, drag, and factors affecting pitch, roll and yaw.
Gas Flow Measurement
Devices, applications and systems for measuring gas flow.

35 INSTRUMENTATION AND PHOTOGRAPHY

PHOTOGRAPHY
Cameras and photographic equipment and methods including optical, aerial, and radar photography.

INFRARED TECHNOLOGY
Infrared devices, including scanners, detectors, filters, cameras, and masers.

INSTRUMENT STANDARDS AND CALIBRATION TECHNIQUES
Measurement and radiation standards and calibration of instruments.

TEMPERATURE MEASUREMENT
Heat and temperature measuring devices, applications, and systems.

PRESSURE MEASUREMENT
Pressure measuring devices, applications, and systems.

DISPLAY SYSTEMS
Cathode ray tubes and display techniques and principles.

DATA RECORDING
Data recorders and recording systems and techniques.

GAS FLOW MEASUREMENT
Devices, applications and systems for measuring gas flow.

RELATED TOPICS:
Navigation Systems
Spacecraft and aircraft navigation systems including star trackers, inertial systems, Doppler and stellar navigation, and navigation instruments.

Telemetry
Data transmission and measuring, biotelemetry, telephotometry, and telepsychometry.

Meteorological Instruments
Types and uses of meteorological instruments.

Bioinstrumentation
Biotelemetry, medical electronics, physiological monitoring, biological measurement, and biological data handling.

See also topics under Subject Group 19, Spacecraft Instrumentation.

36 LASERS AND MASERS

LASERS AND MASERS
References to lasers and masers in general, laser theory, and types of lasers and masers.

LASER APPLICATIONS
Laser communications, laser photography, and laser ranging.

37 MECHANICAL ENGINEERING

BEARINGS AND GEARS
Types of bearings and gears, uses, materials, and applications.
LUBRICATION AND LUBRICANTS
Lubrication materials, systems, and applications.

MACHINING
Machining processes and techniques and machine tools.

FRICITION AND WEAR
Types of friction, friction measurement and effects, frictionless environment, and wear effects.

SEALS
Sealants, gaskets, packing, leakage, self-sealing materials, and sealing techniques.

WELDING
Brazing, bonding, soldering, and welding techniques and processes; weldability of various materials, and properties and characteristics of welds.

METAL FORMING
Theory, techniques, and processes of metal forming other than machining.

PUMPS
Pumps, pump seals, and pumping in aerospace technology.

VACUUM TECHNOLOGY
Vacuum systems, techniques and processes; vacuum testing measurement and material fabrication.

NONDESTRUCTIVE TESTING
Techniques and processes for the nondestructive testing of materials, including infrared, ultrasonic, and X-ray testing.

TURBOMACHINERY
Axial flow machines, centrifugal compressors and pumps, gas turbines, turbocompressors, turbine pumps, turbofans, turbogenerators.

38 QUALITY ASSURANCE AND RELIABILITY

QUALITY CONTROL AND RELIABILITY
Product development, qualitative testing and analysis of materials and structures, and reliability criteria for components and structures.

39 STRUCTURAL MECHANICS

SHELLS
Shell structures, stresses, loads, buckling and vibration.

STRESSES AND LOADS
Stresses and loads on launch vehicles, spacecraft, and aerospace structures.

STRUCTURE VIBRATION AND DAMPING
Vibration and damping in aerospace structures, spacecraft and airframes; panel flutter.

IMPACT PHENOMENA
Studies of impact phenomena in aerospace structures and components; also micrometeoroid impact damage.

STRUCTURAL FATIGUE
Fatigue studies and analysis, techniques for aerospace structures and components.

SANDWICH CONSTRUCTION
Honeycomb, multilayer and laminated fabrication, techniques and structures.

STRESS ANALYSIS
Stress calculation and analysis of structures.

STRUCTURAL TESTS AND RELIABILITY
Destructive and nondestructive testing and reliability of aerospace structures.
GEOSCIENCES

42 GEOSCIENCES (GENERAL)

RELATED TOPICS:
See specific topics under Subject Groups 43-48.

43 EARTH RESOURCES

EARTH RESOURCES
Earth resources studies: the role of satellites in natural resource development, geology, agriculture, forestry.

GEODESY AND CARTOGRAPHY
Geodetic positions, satellite surveying, geodetic applications, mapping techniques, analyzing methods, and mapping systems.

RELATED TOPICS:
Water Resources and Oceanography
Water conservation and development: hydrology; remote sensing of floods, snow cover, ice; oceanography, other hydrosphere studies.

Urban Technology and Transportation
Application of aerospace technology to the problems of cities: urban development, planning, research, and transportation; rail transportation; rapid transit systems; police services; water and sewage treatment; waste utilization, and land use.

44 ENERGY PRODUCTION AND CONVERSION

ENERGY RESOURCES
Production, conversion, transmission, conservation of energy; solar energy conversion; wind power; remote survey of energy resources; hydrogen economy.

FUEL CELLS AND CHEMICAL BATTERIES
Electrochemical, biochemical and regenerative fuel cells; silver-cadmium, nickel-oxide and other batteries.

SOLAR SPACE POWER
Photovoltaic cells, solar cells, solar energy, absorbing films; solar energy converters and solar power systems.

NUCLEAR AUXILIARY POWER
Nuclear auxiliary reactors, isotopic space power, and specific SNAP Systems.

45 ENVIRONMENT POLLUTION

ENVIRONMENTAL POLLUTION CONTROL
Applications of aerospace techniques, including remote sensing, to all aspects of air, water, thermal, and environmental pollution; specific pollutants, noise, noise injuries, noise meters, atmospheric composition, water quality.

46 GEOPHYSICS

UPPER EARTH ATMOSPHERE
Earth atmosphere above the troposphere; ionospheric composition, phenomena, chemical reactions and satellite measurement.

GEOLOGY AND SEISMOLOGY
Earth geology, petrography, and orography: earthquake detection, measuring and recording instruments, and theoretical models.

GEOMAGNETISM
Geomagnetic anomaly, fields, latitudes, pulsations, storms, and measuring and data transmitting instruments.

RELATED TOPICS:
Sounding Rockets
Upper atmosphere aerology and meteorology probes, and other small launch vehicles.
Meteorological Satellites
Nimbus, Tiros, meteorological data from satellites.

Gravitation
Gravitational theory, effect and fields, equations and potential; antigravity, gravitational collapse, and gravity gradient control of satellites.

Radiation Belts
Inner and outer radiation belts, Van Allen Belt, artificial radiation belts, and trapped radiation.

47 Meteorology and Climatology

Meteorological Satellites
Nimbus, Tiros, meteorological data from satellites.

Weather Forecasting
Methods and instruments of weather data acquisition and processing; theory and methods of weather prediction.

Micrometeorology
Smallest scale observation of physical and dynamic occurrences within the surface boundary layer of the atmosphere; includes turbulence, air pollution, launch conditions.

Cloud Research
Types of cloud formation, cloud physics, nephanalysis, and cloud seeding.

Meteorological Instruments
Types and uses of meteorological instruments.

Related Topics:
Upper Earth Atmosphere
Earth atmosphere above the troposphere; ionospheric composition, phenomena, chemical reactions and satellite measurement.

Sounding Rockets
Upper atmosphere aerology and meteorology probes and small launch vehicles.

48 Oceanography

Water Resources and Oceanography
Water conservation and development; hydrology; remote sensing of floods, snow cover, ice; oceanography, other hydrosphere studies.

Life Sciences

51 Life Sciences (General)

Biology (General)
Microbiology, ecology, botany, genetics and cytology.

Biochemistry
Chemistry of living organisms and physiochemistry.

52 Aerospace Medicine

Aerospace Medicine
Aerospace medical problems and studies, e.g., toxicity and weightlessness; medical aspects of astronaut performance reaction, and neurophysiology.

Clinical Medicine
General medicine, body systems and functions, diseases, and drugs.

Physiological Factors
Functions related to body composition, physical performance reaction, and neurophysiology.

Biological Radiation Effects
Effects of radiation on the human body and other living organisms.
53 BEHAVIORAL SCIENCES
PSYCHOLOGICAL FACTORS
Factors related to psychology, psychiatry, individual and group behavior, crew training and testing.

54 MAN/SYSTEM TECHNOLOGY AND LIFE SUPPORT
LIFE SUPPORT SYSTEMS
Systems that support life in spacecraft, isolation chambers or uninhabitable environments, including space cabin atmosphere, food, water, and waste disposal.
CREW SAFETY AND PROTECTIVE CLOTHING
Survival techniques, escape, rescue, and protective clothing and equipment, space suits.
HUMAN ENGINEERING
Design and engineering of devices, equipment, and artificial environments to the requirements of man.
MAN-MACHINE SYSTEMS
Systems in which man and machine are interrelated.

54-01

54-02

54-03

54-04

54-05

55 PLANETARY BIOLOGY
EXTRATERRESTRIAL LIFE
Exobiology and detection, simulation, and genesis of life outside earth.

55-01

56 RELATED TOPIC:
Cybernetics and Bionics
Methods of control and communications common to living organisms and machines and those systems that function in the manner of or resembling human systems.

60 COMPUTER OPERATIONS AND HARDWARE
DIGITAL AND ANALOG COMPUTERS
Computer hardware, structure, peripheral equipment, and applications; hybrid computers.
AIRBORNE OR SPACEBORNE COMPUTERS
Computer design for onboard spacecraft or aircraft use.

61 COMPUTER PROGRAMMING AND SOFTWARE
COMPUTER SOFTWARE
Programming and computer languages, systems analysis, data management.

62 COMPUTER SYSTEMS
RELATED TOPICS:
Computer Software
Programming and computer languages, systems analysis, data management.
Aerospace Management
Management techniques, cost control, production engineering, personnel management.

63 CYBERNETICS
CYBERNETICS AND BIONICS
Methods of control and communications common to living organisms and machines and those systems that function in the manner of or resembling human systems.

64 NUMERICAL ANALYSIS
NUMERICAL ANALYSIS
Mathematical models, theoretical studies and applications.

65 STATISTICS AND PROBABILITY
STATISTICS AND PROBABILITY
Statistical techniques and applications, probability and reliability theory, probability equations, and problem solving.

66 SYSTEMS ANALYSIS
RELATED TOPIC:
Computer Software
Programming and computer languages, systems analysis, data management.

67 THEORETICAL MATHEMATICS

PHYSICS

70 PHYSICS (GENERAL)
RELATED TOPICS:
See specific topics on Subject Groups 71-77.

71 ACOUSTICS
ACOUSTICS
Acoustic attenuation, simulation, scattering radiation and vibration; hydroacoustics.
ULTRASONICS
Use in medicine and materials research, absorption properties and effects.

72 ATOMIC AND MOLECULAR PHYSICS
ATOMIC PHYSICS
Atomic theory, collision, beams, energy, reactions, and properties.
MOLECULAR PHYSICS
Molecular theory, energy, structure, collision, beams, properties, molecules, and instrumentation.

73 NUCLEAR AND HIGH-ENERGY PHYSICS
NUCLEAR PHYSICS
Nuclear particles, structure, reactions, and force.
RADIOACTIVITY
Measurement, detection, material, waste, fission products, and radioactive elements.
RELATED TOPIC:
Cosmic Radiation
Primary and secondary cosmic radiation, galactic and stellar radiation.

74 OPTICS
OPTICS
Optical equipment and technology, electron optics, crystal optics, fiber optics, and optical properties.
LIGHT
Light scattering, measurement effects and transmission.

75 PLASMA PHYSICS
PLASMA APPLICATIONS
Plasma arc welding, plasma spraying, plasma power source, plasma jet technology.
PLASMA DYNAMICS
Plasma theory, conductivity, diagnostics, plasma pinch, plasma sheath, plasma waves, and plasma oscillations.
MAGNETOHYDRODYNAMICS
Magnetohydrodynamic theory and applications.
RELATED TOPIC:
Astrophysical Plasmas
Solar, cosmic, and interstellar plasmas, solar atmosphere, and stellar plasma.

76 SOLID-STATE PHYSICS
SOLID STATE DEVICES
Devices using solid state components, diodes, and rectifiers.
SUPERCONDUCTIVITY
Superconductivity, superconducting magnets, superconducting transition temperatures, critical temperatures, and critical field curves of superconducting material.
DIELECTRICS
Dielectric material including dielectric constant of materials, electric losses and ohmic resistance of compounds, permeability and polarization of dielectric substances and media.
EPITAXIAL DEPOSITION
Epitaxial film deposition techniques; electrical properties of epitaxial deposited films and applications.
RELATED TOPICS:
Metal Crystals
Structure, defects, and technology of metal crystals.
Semiconductors and Transistors
Semiconductor and transistor types, devices, materials and applications.
Magnetism
Theory and research, aeromagnetism, ferromagnetism, hydromagnetism, paramagnetism, and thermomagnetism.

77 THERMODYNAMICS AND STATISTICAL PHYSICS
RELATED TOPICS:
Statistics and Probability
Statistical techniques and applications, probability and reliability theory, probability equations, and problem solving.
Molecular Physics
Molecular theory, energy, structure, collision, beams, properties, molecules, and instrumentation.
SOCIAL SCIENCES

80 SOCIAL SCIENCES (GENERAL)

RELATED TOPICS:
See specific topics in Subject Groups 81-85.

81 ADMINISTRATION AND MANAGEMENT

AEROSPACE MANAGEMENT
Management techniques, cost control, production engineering, personnel management.

82 DOCUMENTATION AND INFORMATION SCIENCE

INFORMATION TECHNOLOGY
Documentation, information processing and retrieval, and information systems.

83 ECONOMICS AND COST ANALYSIS

RELATED TOPIC:
Aerospace Management
Management techniques, cost control, production engineering, personnel management.

84 LAW AND POLITICAL SCIENCE

WORLD SPACE PROGRAMS AND AEROSPACE LAW
NASA programs in general, foreign aerospace programs, international cooperation, law related to space and aeronautics, Congressional aerospace hearings.

85 URBAN TECHNOLOGY AND TRANSPORTATION

URBAN TECHNOLOGY AND TRANSPORTATION
Application of aerospace technology to the problems of cities; urban development, planning, research, and transportation; rail transportation, rapid transit systems, police services; water and sewage treatment; waste utilization, and land use.

SPACE SCIENCES

88 SPACE SCIENCES (GENERAL)

RELATED TOPICS:
See specific topics under Subject Groups 89-93.

89 ASTRONOMY

SOLAR ASTRONOMY
Solar activity, physics, solar telescopes and observatories.

STELLAR ASTRONOMY AND COSMOLOGY
Stellar, galactic astronomy, including radioastronomy; origin and evolution of the universe.

METEORS AND METEORITES
Meteor properties and hazards, micrometeoroids and micrometeorites, comets, interplanetary dust.

90 ASTROPHYSICS

GRAVITATION
Gravitational theory, effect and fields, equations and potential; antigravity, gravitational collapse, gravity gradient control of satellites, geophysical gravitational fields.

ASTROPHYSICAL PLASMAS
Solar, cosmic, and interstellar plasmas, solar atmosphere, and stellar plasma.
91 LUNAR AND PLANETARY EXPLORATION

THE MOON
Studies of the lunar surface and lunar surface data, lunar interior, lunar environment, spacecraft and vehicles used in exploration, specific projects, and lunar landings.

PLANETARY SCIENCES AND EXPLORATION
Planetary composition, surfaces, atmospheres, and environment, spacecraft and vehicles used in planetary exploration.

RELATED TOPICS:
Space Probes
Lunar and planetary probes, including Pioneer, Ranger, Mariner, Voyager, and deep space probes.

Astrophysical Plasmas
Solar, cosmic, and interstellar plasmas, solar atmosphere, and stellar plasma.

92 SOLAR PHYSICS

RELATED TOPIC:
Solar Astronomy
Solar activity, physics, solar telescopes and observatories.

93 SPACE RADIATION

COSMIC RADIATION
Primary and secondary cosmic radiation, galactic and stellar radiation.

SOLAR RADIATION AND ACTIVITY
Solar radiation, observation, instrumentation, hazards to space flight, protection from solar radiation, solar storms, solar flares, solar winds, and sunspots.

RADIATION BELTS
Inner and outer radiation belts, Van Allen Belt, artificial radiation belts, and trapped radiation.

99 GENERAL

ANNUAL REPORTS, BIOGRAPHIES
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