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NASA Publications

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EP-50 Space Resources for Teachers: Biology.—Developed by the Lawrence Hall of Science, University of California at Berkeley, California, to enrich biology curricula by incorporating current investigations in the space life sciences. 236 pages. $3.25.

EP-57 Man In Space.—A chronicle of the Mercury, Gemini, and Apollo manned space flight programs. 36 pages. $1.05.

EP-66 Apollo 8: Man Around the Moon.—The flight of Astronauts Borman, Lovell and Anders in December, 1968, the first manned mission to the vicinity of the Moon. In color. 24 pages. 80 cents.

EP-68 Code Name: Spider.—The Flight of Apollo 9, the first manned flight test of the lunar module (LM), is reported in full color. 16 pages. 90 cents.

EP-71 "In This Decade . . . " Mission To the Moon.— This "pre-launch" booklet outlines the complex steps leading to a manned lunar landing. The many and varied areas of research and development conducted by NASA are illustrated. In color. 48 pages. $1.45.

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EP-84 Satellites at Work.—Spacecraft for communications, geodesy Earth-survey and weather observations are described. 28 pages. $1.25.

EP-85 Aeronautics.—The "state of the art" in NASA'S aeronautical research program is summarized and is followed by a discussion of ongoing projects, including quieter aircraft and engines, sonic boom, vertical and short takeoffs, trailing vortex, runway safety, general aviation and operation beyond the speed of sound. 28 pages. $1.30.

Note: EP Nos. 82,84 and 85 are titles in the series "Space in the Seventies."

EP-87 Space Resources for Teachers:Chemistry.—This curriculum supplement, developed at Ball State University, is designed to enrich chemistry instruction with recent discoveries emanating from the nation's space program. Monographs presenting background information are followed by detailed suggestions for activities including experiments, demonstrations, projects and ideas for discussion. 228 pages. $2.95.

EP-88 Exploring in Aerospace Rocketry.—Material on rocketry for enrichment of high school and college courses in various disciplines. It consists of lectures prepared originally for an Aerospace Explorer program in Cleveland. 362 pages. $4.20.

EP-90 Two Over Mars.—The story of the Mariner Mars 1969 project in which Mariners 6 and 7 significantly added to knowledge of the red planet. Flight performance, scientific results and technical characteristics of the spacecraft are described and portrayed in text and pictures. 44 pages. 90 cents.

EP-92 Space Mathematics: a Resource for Teachers.—The publication is a compilation of a variety of problems designed to give the reader some appreciation of the importance of mathematics in space activities. 140 pages. $2.25.

EP-95 On the Moon with Apollo 16.—A "pre-launch" guidebook to the Descartes region. The plan for exploration of the region is described, with explanations of the scientific experiments. 96 pages. $1.20.

EP-96 Space Shuttle.—A picture book that illustrates the spacecraft and its mission in full color paintings by Robert McCall. The economy and versatility of the Space Shuttle Program are clearly shown. 8 pages. 70 cents.

EP-97 Apollo 16 At Descartes.—The flight of Apollo 16 to the Descartes region of the Moon shows how well scientists and engineers can work together to get the most out of lunar exploration. Illustrated in full color. 32 pages. $1.45.

EP-100 Apollo.—Commemorative book summarizes the historic manned lunar landing program and features in color some of the best photographs from each Apollo mission. 64 pages. $2.65.

EP-101 On The Moon With Apollo 17.—A guidebook for the mission that took Apollo 17 astronauts to the Taurus-Littrow region of the Moon. 120 pages. $1.45.

EP-103 What's the Use of Land?—This secondary school social studies project booklet integrates NASA space observations of Earth with environmental education and other social studies. It can serve as a social studies teachers' guide for interdisciplinary instruction and school-community involvement. 64 pages. $1.45.

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EP-109 Apollo-Soyuz.—The full story of the historic Apollo-Soyuz Test Project in which American astronauts and Soviet cosmonauts joined their spacecraft and conducted scientific experiments. ASTP was the first international manned space mission. Illustrated in color. Paperback. 132 pages. $3.30.

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EP-115 Skylab Experiments, Volume 6, Mechanics.—Methods of dealing with two operational spaceflight problems—providing mobility for astronauts and measuring weight, or mass, in a weightless environment—call for unconventional techniques and hardware. 40 pages. 85 cents.

EP-116 Skylab Experiments, Volume 7, Living and Working in Space.—Data are gathered and documented concerning astronaut ability to perform work in long-duration weightlessness and on the habitability features of crew quarters and work stations. An experiment not related to human engineering was one involving web formation by a spider without the normal benefit of gravity. 48 pages. 90 cents.

EP-117 New Horizons.—This overview of on-going NASA programs in the post-Apollo period calls attention to the shifts of emphasis in aeronautical research and space exploration. NASA's contributions to the solution of pressing national problems share the spotlight. Topics cover energy, weather, communications. oceanography, medicine, mineral prospecting, Viking, Mariner, Pioneer and other flight projects. Full color, 40 pages. $1.60.

EP-118 Our Prodigal Sun.—The dynamic Sun, its characteristics observed and measured by spacecraft, is proving more complex and fascinating than ever, especially for a world anxious to use its energy. 12 pages. 35 cents.

EP-119 Skylab and the Sun.—Leading scientists and experts on solar physics are contributors to this highly readable book describing the Sun, the Skylab space station solar experiments and what mankind stands to gain from the Skylab experience. 56 pages. $1.10.

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EP-121 NASA and Energy.—NASA is developing ways to tap the heat and light of the Sun to meet the nation's future energy requirements. But that is only part of the story. NASA engineers also are working on clean, renewable fuels; wind-generated electricity; finding new fuel deposits; and exploring a variety of conservation techniques. 16 pages. 35 cents.

EP-122 Exploration of the Solar System.—Discusses the purpose of solar system exploration, advances in knowledge made possible by spacecraft, the spacecraft themselves, launch vehicles, and other technology involved in solar system exploration, and a program for the future. Reprinted with permission of the American Institute of Aeronautics and Astronautics. 72 pages. $2.05.

EP-123 Why Man Explores.—*Transcript of a symposium* held July 2, 1976, in conjunction with Viking landing on Mars. Moderated by Norman Cousins, editor of the Saturday Review. Participants were Captain Jacques Cousteau, explorer-oceanographer; James Mitchener, explorer-author; Dr. Philip Morrison, physicist; and Ray Bradbury, author. 96 pages. $1.10.

EP-126 The Supernova.—This curriculum project is one of four prepared by the American Astronomical Society for use by secondary school science teachers. It discusses one of the most spectacular events in our Universe, events that are said to lead to such phenomena as neutron stars and black notes. 48 pages. $1.30

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EP-128 Atoms and Astronomy.—One of four curriculum projects prepared by the American Astronomical Society for science teachers in secondary schools, this book covers the subject of astronomical spectroscopy. Spectroscopy, the means by which astronomers acquire information about distant celestial phenomena, is based on the fact that atoms emit and absorb electromagnetic radiation in different ways. 32 pages. $1.20.

EP-129 Extragalactic Astronomy.—One of four curriculum projects prepared for high school science teachers by the American Astronomical Society, this booklet covers the Universe beyond our Milky Way Galaxy. 48 pages. $1.30

EP-131 What's New on the Moon?—This book summarizes new knowledge obtained through Apollo manned expeditions to the Moon. It presents not only what is now known about the Moon but also the additions to knowledge about the Earth, Sun, and remainder of the solar system gained through this new lunar knowledge. 24 pages. 70 cents.

EP-133 thru EP-141 Apollo-Soyuz Pamphlets No. 1 through No. 9.—A series of curriculum-related pamphlets based on the results of experiments conducted during the American-Russian Apollo-Soyuz Test Project in Earth orbit. The pamphlets include:

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EP-134 Apollo-Soyuz Pamphlet No. 2: X-Rays, Gamma-Rays. 62 pages.
EP-135 Apollo-Soyuz Pamphlet No. 3: Sun, Stars, In Between. 54 pages.
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EP-138 Apollo-Soyuz Pamphlet No. 6: Cosmic Ray Dosage. 36 pages.
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EP-140 Apollo-Soyuz Pamphlet No. 8: Zero-G Technology. 59 pages.
EP-141 Apollo-Soyuz Pamphlet No. 9: General Science. 76 pages.

The complete set of nine pamphlets is $10.00. Single pamphlets are $2.00 each.

EP-146 Mars: The Viking Discoveries.—This is an 8½-by-11 inch booklet. Color and black and white photographs from the Viking landers and orbiters illustrate this booklet which features results of the mission to study the atmosphere and geology of Mars and to analyze its soil and search for evidence of life. 36 pages. $1.50.

EP-147 Elementary School Aerospace Activities.—A resource for teachers, this curriculum project was prepared for NASA Public Affairs by the University of Nebraska, Lincoln— to serve as a manual or guide for teachers in planning and introducing aerospace developments into the classroom. In addition to a selected bibliography at the end of each of the 10 sections, EP-147 has a complete list of audiovisual and printed materials in the appendix. Also listed are sources of free and inexpensive materials. Section headings include: Earth Characteristics, Flight in the Atmosphere, Rockets, Technological Advances, Unmanned Earth Satellites, Unmanned Exploration of the Solar System, Life-Support Systems, Astronauts, and Projections. 140 pages. $3.00.

EP-149 NASA Tech House.—This 20-page booklet describes a functional, 1,500-sq. ft. house designed and built at the NASA Langley Research Center in Virginia to demonstrate, in cooperation with other federal agencies, the new technologies available to home builders that can markedly enhance energy and water conservation, safety and security. 20 pages. $1.10.

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NF-57 Why Survey From Space?—Describes how Earth surveys are conducted from orbiting spacecraft. Among topics discussed are making ground-based surveys, photographic surveys including stereo and effects of lighting, importance of timing in surveys, and how satellite photographic surveys of Earth can be obtained. 12 pages. 45 cents.

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NF-76 Viking Mission to Mars.—The missions of NASA's two unmanned Viking spacecraft, each designed to divide itself into a Lander and an Orbiter to study Mars, are described in text and four-color illustrations. 16 pages. 50 cents.

NF-77 American Experiments on Cosmos 782.—Describes the results of U.S. life science experiments carried on the Soviet biological satellite Cosmos 782. 8 pages. 60 cents.

NF-79 Space Shuttle.—Describes in layman's language and with black and white illustrations the operation and uses of the Space Shuttle which will transport people, equipment, and spacecraft between Earth and Earth orbit. 8 pages. 60 cents.

NF-80 Landsat.—This 31 x 48 inch wallsheet illustrates and explains how these Landsat Earth survey satellites can be used for many beneficial purposes by people all over the world. $1.50.

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NASA Picture No. 5 Man on the Moon.—One 16 x 20 inch color lithograph that best illustrates man's moment of success, the first step in his conquest of space. $1.85 per copy.

NASA Picture Set No. 7 Apollo 15.—Nine 11 x 14 inch color lithographs illustrating the journey to the Moon of Endeavor and Falcon. $2.10 per set.

Viking Pictures of Mars: Set No. I.—This package contains nine 12 x 25 inch lithographs (in color and black and white) and a keyed sheet that explains each picture. These historic and graphic pictures of Mars include a striking computer-enhanced Martian sunset. $3.50 per set.

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SP-328 Life Beyond Earth and the Mind of Man.—Abridged transcript of a symposium sponsored by NASA and Boston University exploring the implications of intelligent life existing on the planets of distant stars. The six distinguished panelists include a theologian, and anthropologist, a physicist, a biologist and two astronomers. 116 pages. $2.00.

SP-337 The New Mars.—Mars—its global dust storms, vast volcanic mountains, huge chasms, and its valleys resembling dry gullies on Earth are among the Mariner 9 discoveries described and interpreted. 192 pages. Hardcover. $8.75.

SP-345 Evolution of the Solar System.—Presents the physics and chemistry involved in analyzing the origin and evolution of the solar system. Cloth-bound. 612 pages. $11.00.

SP-350 Apollo Expeditions to the Moon.—A history of Apollo as told by the Apollo astronauts and top NASA executives. Four-color illustrations. 328 pages. Hardcover. $8.90.

SP-360 Mission to Earth: Landsat Views the World.—A compendium of outstanding Landsat scenes in full color depicting Earth's surface from a perspective never before presented in such breadth and detail. Interpretations are provided with the pictures. Clothbound, 10½ × 14 inches in size. 472 pages. $14.00.

SP-377 Biomedical Results from Skylab.—A comprehensive presentation on biomedical results of the three Skylab manned space station missions. Among subjects covered are cardiovascular, mineral, fluid, musculoskeletal, immunological, cytological, hematological, neurological, and vestibular findings. Clothbound. 508 pages. $10.50.

SP-380 Skylab Explores the Earth.—Color photographs of Earth by the Skylab astronauts taken as part of an experiment to determine man's role in observing Earth on future Earth-orbital missions. The striking colorful photographs are interpreted from the standpoints of geology, vegetation, cultural features, hydrology, oceanography, and meteorology. Paperbound. 536 pages. $15.00

SP-400 Skylab, Our First Space Station.—The complete story of Skylab, America's first manned Earth-orbital space station is presented in text and four-color illustrations. Clothbound. 176 pages. $7.00.

SP-401 Skylab, Classroom in Space.—The results of Skylab experiments that were proposed by talented high school students through the Skylab student project which was administered by the National Science Teachers' Association are presented. The experiments and demonstrations covered a broad range of the physical and biological sciences. Illustrated in color. Clothbound. 192 pages. $8.25.

SP-407 Space Shuttle.—Detailed description of the Space Shuttle and how it will be used to transport people, equipment, and spacecraft between Earth and Earth orbit. Illustrated in color. 100 pages. $2.50.

SP-413 Space Settlements: A Design Study.—This book describes in detail construction and operation of permanent settlements in space. It is the result of a study by the American Society of Engineering Education and NASA. 200 pages. $5.00.

SP-4402 Origins of NASA Names.—This booklet describes how names for NASA programs, spacecraft, launch vehicles, and installations were chosen. It also provides a selected list of NASA abbreviations, acronyms, and terms. 244 pages. $3.65.

Spinoff 1978—An Annual Report.—Color photos and text describe many uses of space-developed technology in everyday products and processes and NASA's program to encourage the transfer of such technology to commercial and industrial markets. 124 pages. $3.25.

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