

Salyut 4

Giles Sparrow,Judith John,Chris McNab

Shuttles and Space Missions Giles Sparrow, Judith John, Chris McNab, 2015-12-15 Shuttles and Space Missions examines topics on space exploration, from early orbital missions to the first astronauts on the moon. Detailed illustrations and clear charts help explain these complicated topics.

Salyut - The First Space Station Grujica S. Ivanovich, 2008-10-22 This remarkable book gives a comprehensive account of the longest manned space mission of the time. It details for the first time the people involved and the crews assigned to operate the first space station Salyut. The book portrays the selection of the crews, dramatic flights and tragedy of Soyuz 11. Biographies of the Soyuz 11 cosmonauts are published for the first time in English. The book relates discussions between the key personnel, and investigates the causes of the tragedy. The book ends with memories of all those affected by the DOS program and the tragedy of Soyuz 11 and looks forward to a continuation of the historic mission of Salyut.

Space Stations Ernst Messerschmid, Reinhold Bertrand, 2013-06-29 Construction has begun on the International Space Station (ISS) the largest and most complex extraterrestrial construction project ever. This book on space stations, and the ISS in particular, describes component technologies, systems integration, and the potential utilization of these stations. Co-authored by Messerschmid, one of the first German astronauts, it addresses students and engineers in space technology, but will interest astronomy and space enthusiasts as well.

Outposts on the Frontier Jay Chladek, 2017-08-01 The International Space Station (ISS) is the largest man-made structure to orbit Earth and has been conducting research for close to a decade and a half. Yet it is only the latest in a long line of space stations and laboratories that have flown in orbit since the early 1970s. The histories of these earlier programs have been all but forgotten as the public focused on other, higher-profile adventures such as the Apollo moon landings. A vast trove of stories filled with excitement, danger, humor, sadness, failure, and success, Outposts on the Frontier reveals how the Soviets and the Americans combined strengths to build space stations over the past fifty years. At the heart of these scientific advances are people of both greatness and modesty. Jay Chladek documents the historical tapestry of the people, the early attempts at space station programs, and how astronauts and engineers have contributed to and shaped the ISS in surprising ways. Outposts on the Frontier delves into the intriguing stories behind the USAF Manned Orbiting Laboratory, the Almaz and Salyut programs, Skylab, the Apollo-Soyuz Test Project, Spacelab, Mir station, Spacehab, and the ISS and gives past-due attention to Vladimir Chelomei, the Russian designer whose influence in space station development is as significant as Sergei Korolev's in rocketry. Outposts on the Frontier is an informative and dynamic history of humankind's first outposts on the frontier of space. Purchase the audio edition.

Mir Hardware Heritage David S. F. Portree, 1995 The heritage of the major Mir complex hardware elements is described. These elements include Soyuz-TM and Progress-M ; the Kvant, Kvant 2, and Kristall modules ; and the Mir base block. Configuration changes and major mission events of Salyut 6, Salyut 7, and Mir multiport space stations are described in detail for the period 1977-1994. A comparative chronology of U.S. and Soviet/Russian manned spaceflight is also given for that period. The 68 illustrations include comparative scale drawings of U.S. and Russian spacecraft as well as sequential drawings depicting missions and mission events.

Literature 1977, Part 2 Siegfried Böhme, Ute Esser, Walter Fricke, Inge Heinrich, Dietlinde Krahn, Lutz D. Schmadel, Gert Zech, 2013-03-14 Astronomy and Astrophysics Abstracts, which has appeared in semi-annual volumes since 1969, is devoted to the recording, summarizing and indexing of astronomical publications throughout the world. It is prepared under the auspices of the International Astronomical Union (according to a resolution adopted at the 14th General Assembly in 1970). Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of literature in all fields of astronomy and astrophysics. Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months. This time interval is near to that achieved by monthly abstracting journals, compared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user. Volume 20 contains literature published in 1977 and received before February 20, 1978; some older literature which was received late and which is not recorded in earlier volumes is also included. We acknowledge with thanks contributions to this volume by Dr. J. Bouška, Prague, who surveyed journals and publications in Czech and supplied us with abstracts in English, and by Prof. P. Brosche, Bonn, who supplied us with literature concerning some border fields of astronomy.

Soviet Life , 1981

Scientific and Technical Aerospace Reports , 1978 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Russian Space Probes Brian Harvey, Olga Zakutnyaya, 2011-05-04 Brian Harvey recounts for the first time the definitive history of scientific Russian space probes and the knowledge they acquired of the Earth, its environment, the Moon, Mars and Venus. He examines what Russian Space Science has actually achieved in furthering our knowledge of the Solar System, focusing on the instrumentation and scientific objectives and outcomes, the information gained and lessons learnt. Boxes and charts are used extensively in order to convey in an easily understandable manner for the non-scientific reader the problems and issues addressed and solved by Soviet space science. The book opens with the story of early space science in Russia, which started when the first Russian rockets were fired into the high atmosphere from Kapustin Yar in the late 1940s. Instruments were carried to measure and map the atmosphere and later rockets carried dogs to test their reactions to weightlessness. In order to beat America into Earth orbit, two simpler satellites than originally planned were launched, Sputnik and Sputnik 2, which provided some initial information on atmospheric density, while the following Sputnik 3 carried twelve instruments to measure radiation belts, solar radiation, the density of the atmosphere and the Earth's magnetic field. The author recounts how, by the 1960s, the Soviet Union had developed a program of investigation of near-Earth space using satellites within the Cosmos program, in particular the DS (Dnepropetrovsky Sputnik), small satellites developed to investigate meteoroids, radiation, the magnetic fields, the upper atmosphere, solar activity, ionosphere, charged particles, cosmic rays and geophysics. Brian Harvey then gives the scientific results from Russian lunar exploration, starting with the discovery of the solar wind by the First Cosmic Ship and the initial mapping of the lunar far side by the Automatic Interplanetary Station. He describes Luna 10, which made the first full study of the lunar environment, Luna 16 which brought soil back to Earth and the two Moon rovers which travelled 50 kms across the lunar surface taking thousands of measurements, soil analyses and photographs, as well as profiles of discrete areas. Chapters 4 and 5 describe in detail the scientific outcomes of the missions to Venus and Mars, before considering the orbiting space stations in Chapter 6. Space science formed an important part of the early manned space program, the prime focus being the human reaction to weightlessness, how long people could stay in orbit and the effects on the body, as well as radiation exposure. Chapter 7 looks at the later stage of Soviet and Russian space science, including Astron and Granat, the two observatories of the 1980s, and Bion, the space biology program which flew monkeys and other animals into orbit. The final chapter looks forward to a new period of Russian space science with the Spektr series of

observatories and a range smaller science satellites under the Federal Space Plan 2006-2015.

Leaving Earth Robert Zimmerman,2019-02-14 In this definitive account of the quest to establish a human presence in lifeless outer space, award-winning space historian Robert Zimmerman reveals the great global gamesmanship between Soviet and American political leaders that drove the space efforts of both following the Apollo lunar landings in the 1960s and 1970s. Beaten to the Moon by their Cold War enemies, the Russians were intent on being first to the planets. They knew that to reach other worlds they needed to learn how to build interplanetary spaceships, and believed that manned space stations held the greatest promise for making that possible. Thus, from the very moment they realized they had lost the race to the Moon, the Soviet government worked feverishly to build a viable space station program - one that would dwarf the American efforts and allow the Russians to claim the vast territories of space as their own. Like the race between the tortoise and the hare, the ponderously bureaucratic Soviet Union actually managed to overtake the United States in this space station race. Their efforts - sometimes resulting in terrifying near death exploits - not only put them far ahead of NASA, it also served to reshape their own society, helping to change it from a communist dictatorship to a freer and more capitalist society. At the same time, the American space program at NASA was also evolving, but not for the better. In fact, in many ways the two programs - and nations - were slowly but inexorably trading places. Drawing on his vast store of knowledge about space travel and modern history, as well as hundreds of interviews with cosmonauts, astronauts, and scientists, Zimmerman has superbly captured the exciting story of space travel in the last half of the twentieth century. Leaving Earth tells that story, and is required reading for space and history enthusiasts alike who wish to understand the context of the space exploration renaissance taking place now, in the twenty-first century.

Pravda ,1977

Soyuz Rex Hall,David Shayler,2003-05-07 Rex Hall and Dave Shayler provide a unique history of the Soyuz spacecraft programme from conception, through development to its use, detailed in the only English language book available on this topic. Planned for publication in 2003, it will celebrate 40 years since the original concept of the Soyuz craft.

Space Biology and Medicine: Space and its exploration Arnauld E. Nicogossian,1993 In this first volume in the Space Biology and Medicine series, contributors describe the current status of their understanding of space, highlighting physical and ecological conditions as well as heavenly bodies, and provide general information that will prove useful in the later volumes. The book is divided into four parts: Part I, Historical Perspective; Part II, The Space Environment; Part III, Life in the Universe; and Part IV, Space Exploration. Chapter contributions were made by both U.S. and Russian authors. The book also features an appendix of Astronomical and Physical Quantities, a detailed subject index, and an 8-page color section.

Astronautics and Aeronautics ,1979

Astronautics and Aeronautics, 1974 United States. National Aeronautics and Space Administration. Scientific and Technical Information Office,Nancy L. Brun,1977

Soviet space programs, 1976-80 (with supplementary data through 1983) ,1984

Space Resources John S. Lewis,Ruth A. Lewis,1987 Although deconstruction has become a popular catchword, as an intellectual movement it has never entirely caught on within the university. For some in the academy, deconstruction, and Jacques Derrida in particular, are responsible for the demise of accountability in the study of literature. Countering these facile dismissals of Derrida and deconstruction, Herman Rapaport explores the incoherence that has plagued critical theory since the 1960s and the resulting legitimacy crisis in the humanities. Against the backdrop of a rich, informed discussion of Derrida's writings--and how they have been misconstrued by critics and admirers alike--The Theory Mess investigates the vicissitudes of Anglo-American criticism over the past thirty years and proposes some possibilities for reform.

Aeronautics and Space Report of the President United States. President,1993

Aeronautics and Space Report of the President ... Activities United States. President,2001

Introduction to Space Sciences and Spacecraft Applications Bruce A. Campbell,Paula Walter McCandless,1996-09-12 Introduction to Space Sciences and Spacecraft Applications

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