



Russians In Space

Brian Harvey



Russians In Space:

Russia in Space Anatoly Zak, 2013-01-01 This is a unique attempt to visualise space exploration's future through the eyes of Russian space engineers and to describe that nation's plans in space. Based on actual documents rather than on guesswork, it is the first comprehensive illustrated book dedicated to the Russian vision for the future of manned spaceflight from the dawn of manned spaceflight until today. Lavishly illustrated with images of unparalleled artistic quality and technical accuracy, the book puts the development of the Russian manned spacecraft into political and historical context. Uniquely describes the future of space exploration through the eyes of Russian space engineers and planners, introduces hitherto unrevealed systems developed for the Russian space program, describes past events and future plans in the historical context of the fall and rise of the Russian space program. *Star-Crossed Orbits: Inside The U.S.-Russian Space Alliance* James Oberg, 2001-11-07 An insider's view into the U.S.-Russian space program. In *Star-Crossed Orbits*, space veteran and bestselling author James Oberg combines riveting personal memoir with top-notch investigative journalism to tell the complete untold story of the U.S.-Russian space alliance. With unparalleled access to official Russian archives, facilities, and key individuals associated with the Russian space program, he describes the strengths and weaknesses that each side of the alliance brings to the table. And he reveals for the first time the full story of Russia's decaying space program and how it ultimately was saved from collapse by Western funds. Praise for *Star-Crossed Orbits*: A unique background and base of experience underlies this remarkable book by Jim Oberg. It is must reading for anyone who wishes to understand the culture with which one must deal when attempting to cooperate with Russia or counter its initiatives, whether peaceful or otherwise. Times change with the clock. Dr. H. H. Jack Schmitt, Apollo moon walker, US Senator. Jim Oberg's new book is an absolute must read for those who have followed the first decades of the human exploration of space. He reveals all sorts of insider information on all sides of the relationship between the U.S. and the Soviet Union, later Russia, as they attempted to forge a successful partnership in space. Don't miss this one. Admiral Richard Truly, Space Shuttle Astronaut and former NASA Administrator. *Star-Crossed Orbits* is a great piece of investigative journalism. Its detailed, comprehensive, and well-documented description of the political environment that shaped the International Space Station is a service to NASA and the nation. This book is a must read for program managers, engineers, and scientists engaged in present and future projects with Russia. Gene Kranz, Apollo Flight Director, author of *Failure is Not an Option*. Finally, someone is telling it like it is about the Russian manned space program: the good, the bad, and the ugly. The Russians pulled the wool over our eyes for decades. It continues even today; only now America is paying for it. I have relied on Jim for years because no one knows it or tells it like he does. Walter Cunningham, Apollo VII Astronaut, first manned Apollo mission. In this reasoned indictment, James Oberg reveals the self-delusional and cynically deceptive deals in which the US allowed Russia to be a controlling partner in constructing the International Space Station. He details the terrible cost in time, national treasure, and integrity that this caused and how, despite these self-inflicted barriers,

America's much maligned space workers successfully built it anyway Frederick C Durant III Former Assistant Director National Air and Space Museum *The Rebirth of the Russian Space Program* Brian Harvey, 2007-05-10 This fifty years after Sputnik is the definitive book on the Russian space program The author covers all the key elements of the current Russian space program including both manned and unmanned missions He examines the various types of unmanned applications programs as well as the crucial military program and even analyzes the infrastructure of production launch centres and tracking You'll also find discussion of the commercialization of the program and its relationship with western companies Russia's current space experiment is also put in a comparative global context Strong emphasis is placed on Russia's future space intentions and on new programs and missions in prospect *The New Race for Space* James E. Oberg, 1984 Describes and compares the space programs of the U S and U S S R *Russia in Space* Brian Harvey, 2000-12-21 Until the Apollo Soyuz flight of 1972 the Russian Space Program was shrouded in such complete secrecy that only rumors of failures or catastrophes reached the West This comprehensive history of the Russian Space Program from its Sputnik origins to the privatized Mir Space Station addresses the technical political historical human and organizational issues and provides a balanced focus on the manned and unmanned programs It is the first book to assess the Russian Space Program including the 10 year period since the fall of communism *The Rebirth of the Russian Space Program* Brian Harvey, 2007-11-25 The rebirth of the Russian space program marks an important event 50 years since the first Sputnik was launched on 4th October 1957 At that time few could have imagined the dramatic events that lay ahead The Soviet Union achieved all the great firsts in cosmonautics the first satellite in orbit the first animal in orbit the first laboratory in orbit the first probe to the Moon the first probe to photograph its far side the first soft landing on the moon the first man in space the first woman in space the first spacewalk Except one the first human landing on the Moon In 1964 the Soviet Union decided to contest the decision of the United States to put the first person on the Moon The Soviet Union engaged in that race far too late with divided organization and made a gallant but doomed challenge to Apollo Undaunted the Soviet Union rebuilt its space program around orbiting stations building the first one Salyut and then the first permanent home in space Mir The Soviet Union still achieved many more firsts the first lunar rover the first soft landing on Venus the first soft landing on Mars the first recovery of samples from the Moon by automatic spacecraft *Russia's Posture in Space* Marco Aliberti, Ksenia Lisitsyna, 2018-06-13 The book sheds new lights on the evolution of Russian space activities with a focus on their strategy of international cooperation This analysis is carried out in relation to the evolution of the domestic and international dynamics that have been impacting the country's direction in space with the ultimate goal of providing an assessment on their impact for current and foreseeable Europe Russia space relations Russia has traditionally been one of the two main strategic partners for Europe in its space endeavor Hitherto long standing cooperation has been nurtured between the two actors in various areas from scientific research to space transportation and human spaceflight In recent years however a number of endogenous and

exogenous developments has triggered significant changes in Russia's space posture. These changes are evident in the adjustment of Russia's space policies and programmatic goals in the restructuring of the domestic space industry as well as in the attitude towards international space partnerships.

Into the Cosmos James T. Andrews, Asif A. Siddiqi, 2011-09-25

The launch of the Sputnik satellite in October 1957 changed the course of human history. In the span of a few years, Soviets sent the first animal into space, the first man, and the first woman. These events were a direct challenge to the United States and the capitalist model that claimed ownership of scientific aspiration and achievement. The success of the space program captured the hopes and dreams of nearly every Soviet citizen and became a critical cultural vehicle in the country's emergence from Stalinism and the devastation of World War II. It also proved to be an invaluable tool in a worldwide propaganda campaign for socialism, a political system that could now seemingly accomplish anything it set its mind to.

Into the Cosmos shows us the fascinating interplay of Soviet politics, science, and culture during the Khrushchev era and how the space program became a binding force between these elements. The chapters examine the ill-fitted use of cosmonauts as propaganda props, the manipulation of gender politics after Valentina Tereshkova's flight, and the use of public interest in cosmology as a tool for promoting atheism. Other chapters explore the dichotomy of promoting the space program while maintaining extreme secrecy over its operations, space animals as media darlings, the history of Russian space culture, and the popularity of space-themed memorabilia that celebrated Soviet achievement and planted the seeds of consumerism.

The Russian Space Program Terry C. Treadwell, 2025-12-30

This is not the definitive work on the Russian space program, but it will give the reader an insight into a political and complex world of space science. Although the success of the high-profile American space program had grabbed all the headlines, Russia slowly but consistently has continued to expand their contribution to the exploration of space. Since the phasing out of the Space Shuttle, it is the Russians that now have the main responsibility to replace the crewmembers and take supplies to the space station, although now the American SpaceX program has eased that burden. The book covers the early triumphs and disasters of the Russian space program and the animals that helped pave the way, although the casualties never came to light until many years later when the understanding and tensions between the East and West eased. Despite the number of setbacks that dogged the early years, Russia slowly developed spacecraft that, although considered by some to be very basic, were reliable. The development of the Salyut and Mir space stations created a closer understanding between the nations; the work and experiments carried out by the cosmonauts in these early space stations were almost all military and were either secret or restricted, so little is known about them. However, with the arrival of the International Space Station, came a degree of openness, and great strides were made in the understanding of the physiological and psychological effects of the men and women involved in working in space and a weightless environment. Unfortunately, since the war in Ukraine, Russia's relationship with the West has deteriorated considerably, and co-operation within the space program is very limited, although the two main powers have reached an

agreement regarding the transportation of crews and supplies to the ISS It is thought however that the International Space Station days are numbered and will close in 2031 The book also makes reference to only a small number of Kosmos missions those mentioned are the only ones with any connection to space exploration The remainder and there have been over 2 500 Kosmos missions were either military or scientific satellites *Soviet and Russian Lunar Exploration* Brian Harvey, 2007-08-17 When in July 1969 the Americans decisively beat the Soviet Union in the race to put an astronaut on the moon this event had profound historical scientific and political implications This book tells the story of the Soviet and Russian lunar programme from its origins to the reconsideration of a lunar programme in the present day federal Russian space programme Following Sputnik the first Soviet lunar flights achieved the key goals of hitting circling and photographing the moon in 1959 The Soviet Union planned to achieve the biggest prize of them all the first person to land on the moon and built all the key spaceships required to do so such as a lunar orbiter and lander Brian Harvey describes the techniques devised by the USSR for lunar landing from the LK lunar module to the LOK lunar orbiter and tested versions in Earth orbit He asks whether these systems would have worked and examining how well they were tested concludes that they would have the Soviet Union lost the moon race for political not technical reasons Designs for moon bases were even drawn up In the end the Soviet Union ran an impressive series of robotic missions from 1968 to 1976 to circle the moon map the far side conduct scientific observations from orbit recover samples and rove over the surface The scientific haul from these missions is surveyed what was actually learned about the moon its rocks and the lunar environment that will be useful for the present plans by the United States to return to the moon and for other countries such as India and China to conduct their own lunar exploration The book opens in Surgut Siberia in August 1976 with a largely forgotten event the return to Earth after a three day journey from the moon under a single parachute of the tiny Luna 24 cabin with a core sample drilled deep into the Sea of Crises a remarkable scientific and engineering achievement It ends with an examination of projected missions from plans to explore the far side and set up lunar observatories to the Luna Glob explorer of the 1990s There is also discussion of lunar tourism using a modernized version of the Zond spacecraft which flew around the moon from 1968 to 1970 *Soviet Russias Space Program During the Space Race* Charles River Editors, 2015-12-14 Includes pictures Profiles the various space missions the Soviets conducted during the 1950s and 1960s Includes footnotes online resources and a bibliography for further reading Includes a table of contents This is Moscow This is Moscow calling On the 12th of April the Soviet Union orbited a spaceship around the Earth with a man on board The astronaut is a Soviet citizen Major Gagarin Yuri Alekseyevich The World's first cosmonaut The first to open the door into the unknown The first to step over the threshold of our homeland The whole planet knew him and loved him Of all the goals the Bolshevik Revolution aimed to bring about perhaps nowhere were Russian promises delivered on more than in the success of the Soviet Space program of the 1950s and 1960s As a result of Russian innovation and technology but also due to incredible drive to modernize and compete with the United States for

world power Russia was finally and triumphantly modernized in the eyes of her own people and the world Neil deGrasse Tyson recognized the Soviet legacy in space in his Space Chronicles citing the Soviets important measure s of space achievement first spacewalk longest spacewalk first woman in space first docking in space first space station longest time logged in space In fact the Soviet Union spent much of the 1950s leaving the United States in its dust and rocket fuel President Eisenhower and other Americans who could view Soviet rockets in the sky were justifiably worried that Soviet satellites in orbit could soon be spying on them or even worse dropping nuclear bombs on them Dovetailing off their success developing intercontinental ballistic missiles the Soviets were the first to make enormous advances in actual space exploration and on the night of October 4 1957 the Soviets prepared to launch Object D atop one of its R 7 rockets As the world s first ICBMs R 7 rockets were built primarily to carry nuclear warheads but Object D was a far different payload Object D and the R 7 rocket launched from a hastily constructed launch pad and within minutes it entered orbit It took that object now more famously known as Sputnik 1 about 90 minutes to complete its orbit around the Earth speeding along at 18 000 miles per hour while transmitting a distinct beeping noise by radio Eventually the Space Race produced some of the most iconic moments of the 20th century including the landing of the first men on the Moon and today the race is widely viewed poignantly and fondly as a race to the Moon that culminated with Apollo 11 winning the race for the United States In fact it encompassed a much broader range of competition between the Soviet Union and the United States that affected everything from military technology to successfully launching satellites that could land on Mars or orbit other planets in the Solar System Moreover the notion that America won the Space Race at the end of the 1960s overlooks just how competitive the Space Race actually was in launching people into orbit as well as the major contributions the Space Race influenced in leading to today s International Space Station and continued space exploration Soviet Russia s Space Program During the Space Race The History and Legacy of the Competition that Pushed America to the Moon chronicles the history of Russia s space development and the competition it fostered Along with pictures of important people places and events you will learn about the Russian space program like never before in no time at all [Has the Russian Space Launch Quota Achieved Its Purpose?](#) United States. Congress. Senate. Committee on Governmental Affairs. Subcommittee on International Security, Proliferation, and Federal Services,1999 *The Next Space Race* Richard M. Harrison,Peter A. Garretson,2023-03-31 If China s space ambitions continue unchallenged America will be seriously economically and militarily disadvantaged This book provides a comprehensive strategy to secure U S primacy in the space domain From Moon landings to plans for asteroid mining China is beginning to exploit space to achieve its great power ambitions Its strategy could over time severely and adversely impact U S economic and military security The United States needs to structure its approach to space to ensure that it can meet or surpass PRC timelines Authors Richard M Harrison and Peter A Garretson both from the American Foreign Policy Council review the literature on Chinese space ambitions and assess U S space related initiatives across the

government military and private sector to understand the maturity of technology available to support space initiatives Their first hand research and findings are supplemented by interviews with industry experts corporate space leaders and government and military officials The Next Space Race describes and seeks to influence the development of American space policy to ensure the U S industrial base is ready to meet or surpass PRC milestones empower and clarify the mission of the newly minted Space Force provide guidance to NASA and other federal agencies and incentivize private sector companies to contribute to ensuring American space primacy *U.S.-Russian cooperation in space* United States. Congress. House. Committee on Science. Subcommittee on Space and Aeronautics,2004 *U. S.-Russian : cooperation in space* ,1995 The recent broad political rapprochement between the United States and the nations of the Former Soviet Union FSU has transformed the environment for cooperation on space projects and led to cooperative programs in space with Russia and other FSU states that would have been unimaginable just a few years ago Chief among these are the high profile human spaceflight cooperative activities involving the Space Shuttle Space Station Mir dockings and the International Space Station This report surveys the potential benefits and drawbacks of expanded cooperation with Russia and other nations of the FSU in space activities and examines the impacts of closer cooperation on U S industry and U S national security concerns Such cooperation has begun to yield scientific technological political and economic benefits to the United States However the political and economic risks of cooperating with the Russians are higher than with the United States traditional partners in space Cooperation in robotic space science and earth remote sensing is proceeding well within the stringent limits of current Russian and U S space budgets Including Russia in the International Space Station program provides technical and political benefits to the space station partners but placing the Russian contribution in the critical path to completion also poses programmatic and political risks *International Space Exploration Programs* United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science, Technology, and Space,2013 **United States-Russian Cooperation in the Space Station Program** United States. Congress. House. Committee on Science, Space, and Technology. Subcommittee on Space,1994 The Oxford Handbook of Space Security Saadia M. Pekkanen,P. J. Blount,2024 The Oxford Handbook of Space Security focuses on the interaction between space technology and international and national security processes Saadia M Pekkanen and P J Blount have gathered a group of key scholars who bring a range of analytical and theoretical perspectives to take an analytically eclectic approach to assessing space security from an international relations IR theory perspective Bringing together scholarship from a group of leading experts this volume explains how these contemporary changes will affect future security in from and through space *Russian Space* Emma Johnson,AI,2025-03-20 Russian Space explores the compelling history of Russia s and previously the Soviet Union s contributions to space exploration From the pioneering launch of Sputnik the first artificial satellite to Yuri Gagarin becoming the first human in space the book examines the interwoven aspects of scientific breakthroughs political ambitions

and human determination that propelled the Russian space program forward. The narrative challenges Western-centric views by highlighting the unique technological and scientific contributions from a different cultural and political perspective. The book also dives into the intense Cold War space race, detailing how competition with the United States influenced technological development and the inherent risks involved. Furthermore, it analyzes the program's resilience following the Soviet Union's collapse, emphasizing its adaptation, financial challenges, and crucial international collaborations, especially with the International Space Station. Presenting information chronologically, the book begins with the theoretical groundwork laid by Russian scientists, then delves into Soviet advancements, Cold War competition, and modern-day collaborations using declassified documents, technical reports, and firsthand accounts to provide a balanced and nuanced perspective.

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 were 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

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