



STAR- CROSSED ORBITS

INSIDE THE U.S.—RUSSIAN SPACE ALLIANCE

JAMES OBERG

Star Crossed Orbits Inside The U S Russian Space Alliance

Lori Garver



Star Crossed Orbits Inside The U S Russian Space Alliance:

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 **Russia's Cosmonauts** Rex D. Hall, Shayler David, Bert Vis, 2007-10-05 With the aid of unique photographs first hand interviews and historical resources Rex Hall Dave Shayler and Bert Vis explain for the very first time how Russian citizens have been selected and trained to fly in space and how these procedures have changed during the past 40 years The authors also describe the evolution of the often overlooked ground support infrastructure and how the role of cosmonauts has changed from the very earliest days of the Gagarin era through the demise of the Soviet Union to the era of international co operation and collaboration on programmes such as the International Space Station The book will provide much important background

information and insight to the operational Soviet Russian manned space programme already covered in other Springer Praxis titles but revealing information and facts not covered elsewhere and providing a unique reference source for all those who wish to understand the changing role of Russian cosmonauts in today's global space programme

In the Shadow of the Moon Francis French, Colin Burgess, 2007-01-01 Tells the story of the exciting and challenging years in space flight with two superpowers engaged in a titanic struggle to land one of their own people on the moon This book explores the inspirations ambitions personalities and experiences of the select few whose driving ambition was to fly to the moon

The Secrets of Soviet Cosmonauts Maria Rosa Menzio, 2022-08-31 This book sheds new light on an amazing history only partially known in the west Russian cosmonautics and its spectacular record From Laika the cosmonaut dog to Yuri Gagarin the first man in space to Valentina Tereshkova the first woman in space to the first spacewalk the Soviets set many goals that they subsequently achieved But there are shadows behind these headline moments moments involving human loss some of which are known others only rumored Questions remain such as What was the flying coffin What secrets are still hidden inside the Russian archives despite two rounds of declassification Why didn't Marina Popovich Madame Mig become a cosmonaut What problems made it necessary to film Valentina Tereshkova's return What scientific hypotheses exist concerning Gagarin's mysterious disappearance The author addresses all of these issues with help from the documents now available This book will benefit a broad readership from interested laypersons to graduate and undergraduate students to those who merely enjoy good history based stories

Lost in Space Greg Klerkx, 2005-01-11 The daring revolutionary NASA that sent Neil Armstrong to the moon has lost its meteoric vision says journalist and space enthusiast Greg Klerkx NASA he contends has devolved from a pioneer of space exploration into a factionalized bureaucracy focused primarily on its own survival And as a result humans haven't ventured beyond Earth orbit for three decades Klerkx argues that after its wildly successful Apollo program NASA clung fiercely to the spotlight by creating a government sheltered monopoly with a few Big Aerospace companies Although committed in theory to supporting commercial spaceflight in practice it smothered vital private sector innovation In striking descriptions of space milestones spanning the golden 1960s Space Age and the 2003 Columbia tragedy Klerkx exposes the real NASA and envisions exciting public private cooperation that could send humans back to the moon and beyond

Space Warfare and Defense Bert Chapman, 2008-03-19 This timely resource provides a history of the development of space weapons and warfare strategies and a comprehensive reference guide to the growing literature on the subject Space Warfare and Defense A Historical Encyclopedia and Research Guide provides comprehensive coverage of the development of space as a possible arena for warfare exploring the military uses of space past present and future and specific details of actual space weapons systems The encyclopedia spans the breadth of U S military space policy comparable programs in the Soviet Union China and the European Union and the full array of international agreements designed to regulate the military uses of space In addition the encyclopedia includes an extensive reference guide nearly 40 percent of

the book directing readers to the essential literature on space weapons and defense systems produced by the United States other governments research institutions and additional sources At a time when space is becoming an increasingly important place of military competition and potential conflict Space Warfare and Defense dispels the myths and examines the realities of what may become humanity s ultimate battlefield

Reinventing NASA Roger Handberg,2003-12-30 From its beginnings NASA was convinced that its real mission was to create the opportunity for a much different and better society on Earth namely through human space flight Pursuit of such a goal has led the agency to persist in certain activities even when they conflict with the wishes of Congress and the President Recent changes in the international environment changes that began well before September 11 2001 have brought the military back into the field of human space flight a situation that holds certain hazards for NASA since the military is more powerful politically Dramatic changes could be in store changes that could severely damage NASA s capacity for continuing what it sees as its primary objective While most analyses see the agency as riddled with incompetence Handberg argues that NASA s troubles are a product of its internal values He begins with an historical overview of the major themes in NASA s history followed by chapters on specific areas of concentration such as the space station space transportation space science and internal reforms He also discusses the long term future of the agency and human space flight in general both domestically and internationally

Terrorism and Peacekeeping Volker Franke,2005-01-30 Over the last decade asymmetric warfare and terrorism have become prevalent threats to the United States National security today more than at any other time demands decision making under uncertainty The issues presented in this book demonstrate that the value of planning depends upon how well the United States can prepare for a perpetually unpredictable future Each chapter examines pertinent management leadership and accountability issues related to U S national security and places readers at the center of difficult decisions Although the cases collected in this volume revolve around national security related policy questions they also illustrate more general policy dilemmas and are designed to stimulate new ideas

The Indian Space Programme Gurbir Singh,2017-10-17 Fifty years in the making India s Space Programme is fulfilling the vision of its founders and delivering services from space that touch the lives of 1.3 billion people every day In addition to operating a collection of satellites for weather Earth observation navigation and communication today India has a spacecraft orbiting Mars and a space telescope in Earth orbit This book provides the big picture of India s long association with science from historical figures like Aryabhata and Bhaskara to Homi Bhabha and Vikram Sarabhai the key architects of its space program It covers the scientific contribution of Indian scientists during the European Enlightenment and industrial revolution It traces the technological development of Tipu Sultan s use of rockets for war in the 1780s the all but forgotten contribution of Stephen H Smith s use of rockets as a means of transport in 1935 in northern India and the emergence of Sriharikota India s spaceport the heart of India s modern Space Programme A detailed account of how a fishing village in Kerala was transformed into a space centre and used to launch India s first rocket into space on 21

November 1963 A detailed summary of India's space infrastructure launch vehicles deep space network Telemetry Tracking and Command and space assets in orbit Description of how the ordinary people of India benefit from the services delivered by the space programme Why India chose to go to the Moon and Mars and how it got there The prospects for India's ambitions in space for human spaceflight national security and scientific exploration An analysis of how India's Space Programme may play out on the global stage Will it compete or collaborate with China USA and Russia in space This detailed work in 645 pages 29 tables and 9 appendices is richly illustrated with 140 illustrations some images published for the first time and supported by over 1 000 references It is written for the non specialist offering a big picture view Life in Space Maura Phillips Mackowski, 2022-05-24 This book explores the many aspects and outcomes of NASA's research in life sciences a little understood endeavor that has often been overlooked in histories of the space agency **Space Shuttle Launch System 1972-2004** Mark Lardas, 2012-09-20 The Space Shuttle is one of the oldest and most famous manned launch systems the only launch vehicle that has been used for a longer period of time is the Soviet now Russian R 7 booster By the start of the third millennium the Space Shuttle had carried crews into space over 85 times Although not a military structure the Shuttle had been sold as an all purpose launch system to be used jointly for military and civilian purposes Featuring full colour photos throughout this book covers the design development and operational history of a unique vehicle Space Enterprise Phillip Harris, 2009-12-29 In Space Enterprise Living and Working Offworld Dr Philip Harris provides the vision and rationale as to why humanity is leaving its cradle Earth to use space resources as well as pursuing lunar industrialization and establishing offworld settlements As a management space psychologist Dr Harris presents a behavioral science perspective on space exploration and enterprise In this his 45th book Phil has completely revised and updated the two previous editions of this classic placing new emphasis on the need for more synergy and participation by the private sector He not only provides a critical review of what is happening in the global space community but offers specific strategies for lunar economic development The author analyzes the human factors in contemporary and future space developments especially relative to the deployment of people aloft This user friendly volume offers numerous photographs diagrams exhibits and case studies Escaping Gravity Lori Garver, 2022-06-21 A former NASA deputy administrator recounts how she battled greed and corruption to revolutionize the agency and usher in a new space age Escaping Gravity is former NASA Deputy Administrator Lori Garver's firsthand account of how a handful of revolutionaries overcame the political patronage and bureaucracy that threatened the space agency The success of Elon Musk's SpaceX Jeff Bezos's Blue Origin Richard Branson's Virgin Galactic and countless other commercial space efforts were preceded by decades of work by a group of people Garver calls space pirates Their quest to transform NASA put Garver in the crosshairs of Congress the aerospace industry and hero astronauts trying to protect their own profits and mythology within a system that had held power since the 1950s As the head of the NASA transition team for President elect Barack Obama and second in command of the agency

Garver drove policies and funding that enabled commercial competition just as the capabilities and resources of the private sector began to mature. She was determined to deliver more valuable programs which required breaking the self-interested space industrial cycle that like the military preferred to spend billions of taxpayer dollars on programs aimed to sustain jobs and contracts in key congressional districts. The result: more efficiency and greater progress. Including insider NASA conversations and insights on how the US space industry has been transformed to become the envy of the world and is ushering in a new space age. *Escaping Gravity* offers a blueprint for how to drive productive and meaningful change. Praise for *Escaping Gravity*: Former NASA official Lori Garver offers a front row seat to the decades-long struggles within and among space bureaucrats and space billionaires. Bring popcorn as you bear witness to an untold slice of space history. Neil deGrasse Tyson, Astrophysicist and author of *Space Chronicles: Facing the Ultimate Frontier*. We are living at the most exciting time in space exploration since the Apollo era in part because the world's largest space agency, NASA, got around to trying something new: the funding of commercial crews. Lori Garver tells it like it is or was for a woman effecting change at NASA despite men of the military-industrial complex and their cost-plus contracts. It wasn't rocket science; it was much harder than that. Don't take my word; for it, read this book. Bill Nye, CEO, The Planetary Society. A scathing memoir that shows the ugly side of NASA while offering hope for a better future for the space agency. Kirkus Reviews

Opening Space Research George H. Ludwig, 2013-05-09. Published by the American Geophysical Union as part of the Special Publications Series. *Opening Space Research: Dreams, Technology, and Scientific Discovery* is George Ludwig's account of the early development of space-based electromagnetic physics with a focus on the first U.S. space launches and the discovery of the Van Allen radiation belts. Narrated by the person who developed many of the instruments for the early Explorer spacecraft during the 1950s and participated directly in the scientific research, it draws heavily upon the author's voluminous collection of laboratory notes and other papers upon the Van Allen archive and upon a wide array of other sources. This book presents very detailed discussions of historic events in a highly readable, semitechnical first-person form. More than that, though, *Opening Space Research* brings to the forefront the entire team of scientists who made these accomplishments possible, providing an extensive index of names to enhance and complete the historical record. Authoritative and unique, this book will be of interest to space scientists, science historians, and anyone interested in space history and the first U.S. space launches.

NASA 50th Anniversary Proceedings: NASA's First 50 Years: Historical Perspectives Steven J. Dick, National Aeronautics and Space Administration, 2010-07-07. On 29 July 1958, President Dwight D. Eisenhower signed the National Aeronautics and Space Act, creating the National Aeronautics and Space Administration (NASA), which became operational on 1 October of that year. Over the next 50 years, NASA achieved a set of spectacular feats ranging from advancing the well-established field of aeronautics to pioneering the new fields of Earth and space science and human spaceflight. In the midst of the geopolitical context of the Cold War, 12 Americans walked on the Moon, arriving in peace for all mankind. Humans saw their home planet

from a new perspective with unforgettable Apollo images of Earthrise and the Blue Marble as well as the pale blue dot from the edge of the solar system A flotilla of spacecraft has studied Earth while other spacecraft have probed the depths of the solar system and the universe beyond In the 1980s the evolution of aeronautics gave us the first winged human spacecraft the Space Shuttle and the International Space Station stands as a symbol of human cooperation in space as well as a possible way station to the stars With the Apollo fire and two Space Shuttle accidents NASA has also seen the depths of tragedy In this volume a wide array of scholars turn a critical eye toward NASA s first 50 years probing an institution widely seen as the premier agency for exploration in the world carrying on a long tradition of exploration by the United States and the human species in general Fifty years after its founding NASA finds itself at a crossroads that historical perspectives can only help to illuminate

Dark Skies Daniel Deudney, 2020-03-02 Space is again in the headlines E billionaires Jeff Bezos and Elon Musk are planning to colonize Mars President Trump wants a Space Force to achieve space dominance with expensive high tech weapons The space and nuclear arms control regimes are threadbare and disintegrating Would be asteroid collision diverters space solar energy collectors asteroid miners and space geo engineers insistently promote their Earth changing mega projects Given our many looming planetary catastrophes from extreme climate change to runaway artificial superintelligence looking beyond the earth for solutions might seem like a sound strategy for humanity And indeed bolstered by a global network of fervent space advocates and seemingly rendered plausible even inevitable by oceans of science fiction and the wizardly of modern cinema space beckons as a fully hopeful path for human survival and flourishing a positive future in increasingly dark times But despite even basic questions of feasibility will these many space ventures really have desirable effects as their advocates insist In the first book to critically assess the major consequences of space activities from their origins in the 1940s to the present and beyond Daniel Deudney argues in *Dark Skies* that the major result of the Space Age has been to increase the likelihood of global nuclear war a fact conveniently obscured by the failure of recognize that nuclear armed ballistic missiles are inherently space weapons The most important practical finding of Space Age science also rarely emphasized is the discovery that we live on Oasis Earth tiny and fragile and teeming with astounding life but surrounded by an utterly desolate and inhospitable wilderness stretching at least many trillions of miles in all directions As he stresses our focus must be on Earth and nowhere else Looking to the future Deudney provides compelling reasons why space colonization will produce new threats to human survival and not alleviate the existing ones That is why he argues we should fully relinquish the quest Mind bending and profound *Dark Skies* challenges virtually all received wisdom about the final frontier

Manned Spaceflight Britannica Educational Publishing, 2009-10-01 Space travel is a familiar concept Such was not the case in the early 20th century when the United States and the former Soviet Union were locked in a race to send humans into orbit This book details the history of manned spaceflight from the development of rockets to the advent of space tourism Readers also are introduced to the men and women who have been willing to soar into the great unknown *All American*

Boys, An Insider's Look at the U.S. Space Program (New Ed.) Walter Cunningham, 2010-02-03 The most realistic look yet at astronaut life Chicago Sun Times The best of all the astronaut books Los Angeles Times The All American Boys is a no holds barred candid memoir by a former Marine jet jockey and physicist who became NASA's second civilian astronaut Walter Cunningham presents the astronauts in all their glory in this dramatically revised and updated edition that was considered an instant classic in its first edition over two decades ago From its insider's view of the pervasive astropolitics that guided the functioning of the astronaut corps to its thoughtful discussion of the Columbia tragedy The All American Boys resonates with Cunningham's passion for humanity's destiny in space which endures today This is a story of the triumph of American heroes Cunningham brings us into NASA's training program and reveals what it takes to be an astronaut He poignantly relates the story of the devastating Apollo 1 fire that took the lives of three astronauts and his own later successful flight on Apollo 7 This new edition includes an update of the manned space program and he tells it like it is observation of NASA's successes and failures It also includes commentary on the Shuttle disasters of Challenger and Columbia and his views on what NASA should be doing to get back on track and to regain public support

Journal de la Societe Royale D'astronomie Du Canada Royal Astronomical Society of Canada, 2003 Library catalogue in 1911 31 p appended to v 4 **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

Star Crossed Orbits Inside The U S Russian Space Alliance Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Star Crossed Orbits Inside The U S Russian Space Alliance**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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