

# RECONSIDERING SPUTNIK

FORTY YEARS SINCE  
THE SOVIET SATELLITE

Edited by  
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# Reconsidering Sputnik Forty Years Since The Soviet Satellite

**Sean N. Kalic**



## **Reconsidering Sputnik Forty Years Since The Soviet Satellite:**

**Reconsidering Sputnik** Roger D. Lanius, John M. Logsdon, Robert W. Smith, 2013-05-13 This book explores Russia's stunning success of ushering in the space age by launching Sputnik and beating the United States into space. It also examines the formation of NASA, the race for human exploration of the moon, the reality of global satellite communications, and a new generation of scientific spacecraft that began exploring the universe. An introductory essay by Pulitzer Prize winner Walter A. McDougall sets the context for Sputnik and its significance at the end of the twentieth century. *Remembering the space age: Proceedings of the 50th Anniversary Conference*, Proceedings of October 2007 conference sponsored by the NASA History Division and the National Air and Space Museum to commemorate the 50th anniversary of the Sputnik 1 launch in October 1957 and the dawn of the space age. *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 build 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. **Critical issues in the history of spaceflight** Steven J. Dick, 2018 **Remembering the Space Age** Steven J. Dick, 2008 From the Publisher Proceedings of October 2007 conference sponsored by the NASA History Division and the National Air and Space Museum to commemorate the 50th anniversary of the Sputnik 1 launch in October 1957 and the dawn of the space age. Accessory to War: The Unspoken

Alliance Between Astrophysics and the Military Neil deGrasse Tyson, Avis Lang, 2018-09-11 Extraordinary A feast of history an expert tour through thousands of years of war and conquest Jennifer Carson New York Times Book Review In this far reaching foray into the millennia long relationship between science and military power acclaimed astrophysicist Neil deGrasse Tyson and co author Avis Lang examine how the methods and tools of astrophysics have been enlisted in the service of war Spanning early celestial navigation to satellite enabled warfare Accessory to War is a richly researched and provocative examination of the intersection of science technology industry and power that will introduce Tyson s millions of fans to yet another dimension of how the universe has shaped our lives and our world **John F. Kennedy and the Race**

**to the Moon** J. Logsdon, 2011-02-10 While there are many biographies of JFK and accounts of the early years of US space efforts this book uses primary source material and interviews with key participants to provide a comprehensive account of how the actions taken by JFK s administration have shaped the course of the US space program over the last 45 years

Handbook of Space Engineering, Archaeology, and Heritage Ann Darrin, Beth L. O'Leary, 2009-06-26 Some might think that the 27 thousand tons of material launched by earthlings into outer space is nothing more than floating piles of debris However when looking at these artifacts through the eyes of historians and anthropologists instead of celestial pollution they are seen as links to human history and heritage Space The New Frontier for Ar **Militarizing Outer Space** Alexander

C.T. Geppert, Daniel Brandau, Tilmann Siebeneichner, 2020-12-02 Militarizing Outer Space explores the dystopian and destructive dimensions of the Space Age and challenges conventional narratives of a bipolar Cold War rivalry Concentrating on weapons warfare and violence this provocative volume examines real and imagined endeavors of arming the skies and conquering the heavens The third and final volume in the groundbreaking European Astroculture trilogy Militarizing Outer Space zooms in on the interplay between security technopolitics and knowledge from the 1920s through the 1980s Often hailed as the site of heavenly utopias and otherworldly salvation outer space transformed from a promised sanctuary to a present threat where the battles of the future were to be waged Astroculture proved instrumental in fathoming forms and functions of warfare s futures past both on earth and in space The allure of dominating outer space the book shows was neither limited to the early twenty first century nor to current American space force rhetorics **Politics of Learning,**

**Politics of Space** Tom Holert, 2021-02-22 How the relationships between education and outer space have developed historically is exemplified in an incisive way by the decades that followed the Sputnik shock of 1957 The wake up call that resulted from the Soviet space program set the global landscape of learning in motion New schools and universities came into being against the backdrop of the reform euphoria and mood of catastrophe At the same time traditional pedagogical concepts were severely called into question including the call to do away with institutions of education What is shown in the architectures of learning is not only a politics of space but also the educational shock that intensively shook up the global societies of the 1960s and 1970s while they were gradually being transformed into knowledge societies **Toward a**

**Theory of Spacepower** Charles D. Lutes, 2011-03-07 This volume is a product of the efforts of the Institute for National Strategic Studies Spacepower Theory Project Team which was tasked by the Department of Defense to create a theoretical framework for examining spacepower and its relationship to the achievement of national objectives The team was charged with considering the space domain in a broad and holistic way incorporating a wide range of perspectives from U S and international space actors engaged in scientific commercial intelligence and military enterprises This collection of papers commissioned by the team serves as a starting point for continued discourse on ways to extend modify refine and integrate a broad range of viewpoints about human initiated space activity its relationship to our globalized society and its economic political and security interactions It will equip practitioners scholars students and citizens with the historical background and conceptual framework to navigate through and assess the challenges and opportunities of an increasingly complex space environment

**Satellite** Doug Millard, 2016-11-15 Right now above our heads nearly imperceptible to us but hugely important to how we live are thousands of man made objects that we have sent into space Ubiquitous but mysterious satellites are the technological infrastructure of our globally connected world helping us do everything from orient ourselves on a map to watch our favorite television shows Yet we rarely ever think about them In this book Doug Millard pays overdue tribute to the stoic existence of the satellite tracing its simultaneous pathways through the cold silence of space and the noisy turbulence of the past century How satellites ever came to be is in itself a remarkable story Telling an astonishing history of engineering experimentation and ingenuity Millard shows how the Cold War space race made the earliest satellites ones like Sputnik Telstar and Early Bird household names He describes how they evolved into cultural signifiers that represented not only our scientific capabilities but our capacity for imagination our ability to broaden the scope of our vision to the farthest reaches From there he follows the proliferation of satellites in the second half of the twentieth century examining their many different forms how they evolved all the things they do what they have enabled and how they have influenced our popular culture Ultimately Millard asks what we can still expect what sort of space age the satellite has initiated that is yet to be fully realized Published in association with the Science Museum London this beautifully illustrated book will appeal to any fan of space exploration and technology

**Approaches to Future Space Cooperation and Competition in a Globalizing World** National Research Council, Division on Engineering and Physical Sciences, Aeronautics and Space Engineering Board, Space Studies Board, 2009-07-23 Numerous countries and regions now have very active space programs and the number is increasing These maturing capabilities around the world create a plethora of potential partners for cooperative space endeavors while at the same time heightening competitiveness in the international space arena This book summarizes a public workshop held in November 2008 for the purpose of reviewing past and present cooperation coordination and competition mechanisms for space and Earth science research and space exploration identifying significant lessons learned and discussing how those lessons could best be applied in the future particularly in the areas of cooperation and

collaboration Presentations and initial discussion focused on past and present experiences in international cooperation and competition to identify lessons learned Those lessons learned were then used as the starting point for subsequent discussions on the most effective ways for structuring future cooperation or coordination in space and Earth science research and space exploration The goal of the workshop was not to develop a specific model for future cooperation or coordination but rather to explore the advantages and disadvantages of various approaches and stimulate further deliberation on this important topic

*The International Politics of Space* Michael Sheehan, 2007-10-31 The year 2007 saw the fiftieth anniversary of the Space Age which began with the launching of Sputnik by the Soviet Union in October 1957 Space is crucial to the politics of the postmodern world It has seen competition and cooperation in the past fifty years and is in danger of becoming a battlefield in the next fifty The International Po

Outer Space and Popular Culture Annette Froehlich, 2019-08-01 This book provides detailed insights into how space and popular culture intersect across a broad spectrum of examples including cinema music art arcade games cartoons comics and advertisements This is a pertinent topic since the use of space themes differs in different cultural contexts and these themes can be used to explore various aspects of the human condition and provide a context for social commentary on politically sensitive issues With the use of space imagery evolving over the past sixty years of the space age this is a topic ripe for in depth exploration The book also discusses the contrasting visions of space from the late 19th and early 20th centuries and the reality of today and analyzes space vehicles and habitats in popular depictions of space from an engineering perspective exploring how many of those ideas have actually been implemented in practice and why or why not a case of life imitating art and vice versa As such it covers a wide array of relevant and timely topics examining intersections between space and popular culture and offering accounts of space and its effect on culture language and storytelling from the southern regions of the world

US Presidents and the Militarization of Space, 1946-1967 Sean N. Kalic, 2012-04-10 In the clash of ideologies represented by the Cold War even the heavens were not immune to militarization Satellites and space programs became critical elements among the national security objectives of both the United States and the Soviet Union According to *US Presidents and the Militarization of Space 1946-1967* three American presidents in succession shared a fundamental objective of preserving space as a weapons free frontier for the benefit of all humanity Between 1953 and 1967 Presidents Eisenhower Kennedy and Johnson all saw nonaggressive military satellite development as well as the civilian space program as means to favorably shape the international community's opinion of the scientific technological and military capabilities of the United States Sean N Kalic's reinterpretation of the development of US space policy based on documents declassified in the past decade demonstrates that a single vision for the appropriate uses of space characterized American strategies across parties and administrations during this period Significantly Kalic's findings contradict the popular opinion that the United States sought to weaponize space and calls into question the traditional interpretation of the space race as a simple action reaction paradigm Indeed beyond serving as a symbol and ambassador of

US technological capability its satellite program provided the United States with advanced nonaggressive military intelligence gathering platforms that proved critical in assessing the strategic nuclear balance between the United States and the Soviet Union It also aided the three administrations in countering the Soviet Union's increasing international prestige after its series of space firsts beginning with the launch of Sputnik in 1957 **The Development of Propulsion**

**Technology for U.S. Space-Launch Vehicles, 1926-1991** J. D. Hunley, 2013-03-15 In this definitive study J D Hunley traces the program's development from Goddard's early rockets and the German V 2 missile through the Titan IVA and the Space Shuttle with a focus on space launch vehicles Since these rockets often evolved from early missiles he pays considerable attention to missile technology not as an end in itself but as a contributor to launch vehicle technology Focusing especially on the engineering culture of the program Hunley communicates this very human side of technological development by means of anecdotes character sketches and case studies of problems faced by rocket engineers He shows how such a highly adaptive approach enabled the evolution of a hugely complicated technology that was impressive but decidedly not rocket science Unique in its single volume coverage of the evolution of launch vehicle technology from 1926 to 1991 this meticulously researched work will inform scholars and engineers interested in the history of technology and innovation as well as those specializing in the history of space flight **Theaters of Time and Space** Jordan

Marche, 2005-06-08 Every year millions of Americans visit planetariums and are captivated by their strikingly realistic portrayal of the night sky Today it is indeed difficult to imagine astronomy education without these magnificent celestial theaters But projection planetariums first developed in Germany have been a part of American museum pedagogy only since the early twentieth century and were not widespread until the 1960s In this unique social history former planetarium director and historian of science Jordan D March II offers the first complete account of the community of individuals and institutions that during the period between 1930 and 1970 made planetariums the popular teaching aids they are today March addresses issues such as the role of gender and social developments within the planetarium community institutional patronage and the popularization of science He reveals how at different times various groups including financial donors amateur scientists and government officials viewed the planetarium as an instrument through which they could shape public understanding and perceptions of astronomy and space science Offering an insightful wide ranging look into the origins of an institution that has fascinated millions *Theaters of Time and Space* brings new perspectives to how one educational community changed the cultural complexion of science helped shape public attitudes toward the U S space program and even contributed to policy decisions regarding allocations for future space research [From Dissent to Diplomacy: The Pugwash Project During the 1960s Cold War](#) Alison Kraft, 2022-10-22 This book provides new and critical perspectives on the internal development of the

Pugwash Conferences on Science and World Affairs the PCSWA Pugwash and its role in international nuclear diplomacy during the 1960s Cold War Conceived by western scientists dissenting from their own government's position on nuclear

weapons the conferences brought together elite scientists from across the East West divide to work towards nuclear disarmament and for peace The analysis follows two lines First the book charts the emergence during the conferences of a distinctive form of technopolitical communication that was crucial to the role of Pugwash in Informal cross bloc dialogue about disarmament This enabled Pugwash to realize its paradoxical vision of working both with and against governments to promote disarmament and was key to its role as both a forum for and actor within the realm of informal diplomacy It is argued that Pugwash scientists formed the vanguard of what came in the 1960s to be called Track II diplomacy The relevance of the contemporary concept of Science Diplomacy for Pugwash is discussed The second analytical focus of the book centers on the internal dynamics of the international Pugwash organization It is argued that informal modes of working and a code of confidentiality accorded the leadership enormous power and autonomy this small network of senior figures was able to control the Pugwash agenda and priorities and to launch diplomatic initiatives beyond the conferences However by 1967 competing interests were fueling tensions and instability within Pugwash as it struggled for coherence and direction amid with the political challenges posed by the Vietnam War and European security This crisis manifest the limits of the Pugwash project and placed its future in doubt *To Reach the High Frontier* Roger D. Launius, Dennis R.

Jenkins, 2014-07-11 Access no single word better describes the primary concern of the exploration and development of space Every participant in space activities civil military scientific or commercial needs affordable reliable frequent and flexible access to space *To Reach the High Frontier* details the histories of the various space access vehicles developed in the United States since the birth of the space age in 1957 Each case study has been written by a specialist knowledgeable about the vehicle described and places each system in the larger context of the history of spaceflight The technical challenge of reaching space with chemical rockets the high costs associated with space launch the long lead times necessary for scheduling flights and the poor reliability of the rockets themselves show launch vehicles to be the space program s most difficult challenge



The book delves into Reconsidering Sputnik Forty Years Since The Soviet Satellite. Reconsidering Sputnik Forty Years Since The Soviet Satellite is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Reconsidering Sputnik Forty Years Since The Soviet Satellite, encompassing both the fundamentals and more intricate discussions.

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    - Chapter 1: Introduction to Reconsidering Sputnik Forty Years Since The Soviet Satellite
    - Chapter 2: Essential Elements of Reconsidering Sputnik Forty Years Since The Soviet Satellite
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  6. In chapter 5, the author will draw a conclusion about Reconsidering Sputnik Forty Years Since The Soviet Satellite. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Reconsidering Sputnik Forty Years Since The Soviet Satellite.

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## **Reconsidering Sputnik Forty Years Since The Soviet Satellite Introduction**

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