

ROCKETS & REVOLUTION

A CULTURAL HISTORY OF EARLY SPACEFLIGHT



MICHAEL G. SMITH

Rockets And Revolution A Cultural History Of Early Spaceflight

Peter J. Bowler



Rockets And Revolution A Cultural History Of Early Spaceflight:

Rockets and Revolution Michael G. Smith, 2014-12-01 *Rockets and Revolution* offers a multifaceted study of the race toward space in the first half of the twentieth century examining how the Russian European and American pioneers competed against one another in the early years to acquire the fundamentals of rocket science engineer simple rockets and ultimately prepare the path for human spaceflight Between 1903 and 1953 Russia matured in radical and dramatic ways as the tensions and expectations of the Russian revolution drew it both westward and spaceward European and American industrial capacities became the models to imitate and to surpass The burden was always on Soviet Russia to catch up enough to achieve a number of remarkable firsts in these years from the first national rocket society to the first comprehensive surveys of spaceflight Russia rose to the challenges of its Western rivals time and again transcending the arenas of science and technology and adapting rocket science to popular culture science fiction political ideology and military programs While that race seemed well on its way to achieving the goal of space travel and exploring life on other planets during the second half of the twentieth century these scientific advances turned back on humankind with the development of the intercontinental ballistic missile and the coming of the Cold War

Rockets and Revolution Michael G. Smith, 2014-12-01 *Rockets and Revolution* offers a multifaceted study of the race toward space in the first half of the twentieth century examining how the Russian European and American pioneers competed against one another in the early years to acquire the fundamentals of rocket science engineer simple rockets and ultimately prepare the path for human spaceflight Between 1903 and 1953 Russia matured in radical and dramatic ways as the tensions and expectations of the Russian revolution drew it both westward and spaceward European and American industrial capacities became the models to imitate and to surpass The burden was always on Soviet Russia to catch up enough to achieve a number of remarkable firsts in these years from the first national rocket society to the first comprehensive surveys of spaceflight Russia rose to the challenges of its Western rivals time and again transcending the arenas of science and technology and adapting rocket science to popular culture science fiction political ideology and military programs While that race seemed well on its way to achieving the goal of space travel and exploring life on other planets during the second half of the twentieth century these scientific advances turned back on humankind with the development of the intercontinental ballistic missile and the coming of the Cold War

Rocket Propulsion Stephen D. Heister, William E. Anderson, Timothée L. Pourpoint, Joe Cassady, R. Joseph Cassady, 2019-02-07 Equips students with an up to date practical knowledge of rocket propulsion numerous homework problems and online self study materials

Rocket Science Mark Denny, Alan McFadzean, 2019-10-08 This is a book about rocket science what it is and what it does From the earliest fireworks to nuclear powered spacecraft all you would ever want or need to know about the subject is here along with a straightforward explanation of how why and when things work or sometimes don't We begin with the history and workings of early terrestrial rocketry before moving onto the main subject of

the book how we get things into space and on occasion back again Entirely math free the chapters weave together innumerable anecdotes real world examples and easy walk throughs to help readers break down the complex physics behind some of humankind s most amazing feats Neither a pure textbook nor a populist space travel tome the book will educate inform and above all entertain anyone intrigued by rocket science Russian Aviation, Space Flight and Visual Culture Vlad Strukov, Helena Goscilo, 2016-09-13 Among the many successes of the Soviet Union were inaugural space flight ahead of the United States and many other triumphs related to aviation Aviators and cosmonauts enjoyed heroic status in the Soviet Union and provided supports of the Soviet project with iconic figures which could be used to bolster the regime s visions self confidence and the image of itself as forward looking and futuristic This book explores how the themes of aviation and space flight have been depicted in film animation art architecture and digital media Incorporating many illustrations the book covers a wide range of subjects including the representations of heroes the construction of myths and the relationship between visual art forms and Soviet Russian culture and society *Soviet Space Mythologies* Slava Gerovitch, 2015-06-18 From the start the Soviet human space program had an identity crisis Were cosmonauts heroic pilots steering their craft through the dangers of space or were they mere passengers riding safely aboard fully automated machines Tensions between Soviet cosmonauts and space engineers were reflected not only in the internal development of the space program but also in Soviet propaganda that wavered between praising daring heroes and flawless technologies Soviet Space Mythologies explores the history of the Soviet human space program within a political and cultural context giving particular attention to the two professional groups space engineers and cosmonauts who secretly built and publicly represented the program Drawing on recent scholarship on memory and identity formation this book shows how both the myths of Soviet official history and privately circulating counter myths have served as instruments of collective memory and professional identity These practices shaped the evolving cultural image of the space age in popular Soviet imagination Soviet Space Mythologies provides a valuable resource for scholars and students of space history history of technology and Soviet and post Soviet history *The Spacefaring Earth* Michael G. Smith, 2024-12-04 This engaging survey of the Space Age links science and technology with politics and popular culture war and peace and crises and controversies It examines the history of spaceflight as a mirror of human thought and action across the Earth The volume encompasses the new astronomy and sciences of the modern era the early dreamers and pioneers after 1903 the national competitions of the First World War the rocket states that prepared for the Second World War the rivalries and space race of the Cold War between the US and USSR as well as more recent developments including the Space Shuttle the International Space Station national space programs orbital technologies transhumanism and military and commercial ventures in space It also stresses the importance of geography in the geopolitics of spaceflight competition and in the nature of the planetary biosphere Taking a chronological approach to lived human experience and threshold achievements the chapters show how these themes have been reflected in

literature art music film and our new digital worlds This book is essential reading for students of the history of the Space Age as well as an excellent companion to courses on twentieth century science and technology the Cold War and American history

The Spirit of Socialism Joseph Kellner, 2025-06-15 The Spirit of Socialism is a cultural history of the Soviet collapse It examines the millions of Soviet people who during the cascading crises of the collapse and the post Soviet transition embarked on a spirited and highly visible search for new meaning Amid profound disorientation these seekers found direction in their horoscopes or behind gurus in saffron robes or apocalyptic preachers or by turning from the most basic premises of official science and history to orient themselves anew The beliefs they seized on and even more the questions that guided their search reveal the essence of late Soviet culture and its legacy in post Soviet Russia To skeptical outsiders the seekers appeared eccentric deviant and above all un Soviet Yet they came to their ideas by Soviet sources and Soviet premises As Joseph Kellner demonstrates their motley beliefs reflect modern values that formed the spiritual core of Soviet ideology among them a high regard for science an informed and generous internationalism and a confidence in humanity to chart its own course Soviet ideology failed however to unite these values in an overarching vision that could withstand historical change And so as The Spirit of Socialism shows the seekers asked questions raised but not resolved by the Russian Revolution and subsequent Soviet order questions of epistemic authority of cultural identity and of history's ultimate meaning Although the Soviet collapse was not the end of history it was a rupture of epochal significance whose fissures extend into our own uncertain era

Living the Revolution Andy Willimott, 2017 Living the Revolution offers a pioneering insight into the world of the early Soviet activist At the heart of this book are a cast of fiery eyed bed headed youths determined to be the change they wanted to see in the world First banding together in the wake of the October Revolution seizing hold of urban apartments youthful enthusiasts tried to offer practical examples of socialist living Calling themselves urban communes they embraced total equality and shared everything from money to underwear They actively sought to overturn the traditional family unit reinvent domesticity and promote a new collective vision of human interaction A trend was set a revolutionary meme that would in the coming years allow thousands of would be revolutionaries and aspiring party members to experiment with the possibilities of socialism The first definitive account of the urban communes and the activists that formed them this volume utilizes newly uncovered archival materials to chart the rise and fall of this revolutionary impulse Laced with personal detail it illuminates the thoughts and aspirations of individual activists as the idea of the urban commune grew from an experimental form of living limited to a handful of participants in Petrograd and Moscow into a cultural phenomenon that saw tens of thousands of youths form their own domestic units of socialist living by the end of the 1920s Living the Revolution is a tale of revolutionary aspiration appropriation and participation at the ground level Never officially sanctioned by the party the urban communes challenge our traditional understanding of the early Soviet state presenting Soviet ideology as something that could both frame and fire the imagination

The Rocket Lab Michael G.

Smith,2023-05-15 **The Rocket Lab** Maurice Zucrow Purdue University and America's Race to Space focuses on the golden era of space exploration between 1946 and 1966 specifically the life and times of Purdue University's Dr Maurice J Zucrow a pioneering teacher and researcher in aerospace engineering Zucrow taught America's first university course in jet and rocket propulsion wrote the field's first textbook and established the country's first educational Rocket Lab He was part of a small circle of innovators who transformed Purdue into the country's largest engineering university which became a cradle of astronauts Taking a chronological and thematic approach The Rocket Lab weaves between the local and national drawing in rival universities especially Harvard MIT Princeton and Caltech Also covered is Zucrow's role in the national project system of research and development through World War II and the Cold War At Aerojet he was one of the country's original project engineers dedicated to scientific technical expertise and the stepwise approach He made vanguard power plant contributions to the Northrop Flying Wing as well as the Corporal Nike and Atlas missiles among others Zucrow's work in propulsion helped to improve the country's arsenal of ballistic missiles and space launchers and as a teacher he educated the first generation of aerospace engineers This book elevates Zucrow and the central role he played in getting the United States to space

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

A History of the Future Peter J. Bowler,2017-11-02 In this wide ranging survey Peter J Bowler explores the phenomenon of futurology predictions about the future development and impact of science and technology on society and culture in the twentieth century Utilising science fiction popular science literature and the novels of the literary elite Bowler highlights contested responses to the potential for revolutionary social change brought about by real and imagined scientific innovations Charting the effect of social and military developments on attitudes towards innovation in Europe and America Bowler shows how conflict between the enthusiasm of technocrats and the pessimism of their critics was presented to the public in books magazines and exhibitions and on the radio and television A series of case studies reveals the impact of technologies such as radio aviation space exploration and genetics exploring rivalries between innovators and the often unexpected outcome of their efforts to produce mechanisms and machines that

could change the world **Horizons Blossom, Borders Vanish** Anna Elena Torres, 2024-01-01 A bold recovery of Yiddish anarchist history and literature Spanning the last two centuries this fascinating work combines archival research on the radical press and close readings of Yiddish poetry to offer an original literary study of the Jewish anarchist movement The narrative unfolds through a cast of historical characters from the well known such as Emma Goldman to the more obscure including an anarchist rabbi who translated the Talmud and a feminist doctor who organized for women s suffrage and against national borders Its literary scope includes the Soviet epic poems of Peretz Markish the journalism and modernist poetry of Anna Margolin and the early radical prose of Malka Heifetz Tussman Anna Elena Torres examines Yiddish anarchist aesthetics from the nineteenth century Russian proletarian immigrant poets through the modernist avant gardes of Warsaw Chicago and London to contemporary antifascist composers The book also traces Jewish anarchist strategies for negotiating surveillance censorship detention and deportation revealing the connection between Yiddish modernism and struggles for free speech women s bodily autonomy and the transnational circulation of avant garde literature Rather than focusing on narratives of assimilation Torres intervenes in earlier models of Jewish literature by centering refugee critique of the border Jewish deportees immigrants and refugees opposed citizenship as the primary guarantor of human rights Instead they cultivated stateless imaginations elaborated through literature *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 Chasing the Moon Robert Stone, Alan Andres, 2019-06-04 JFK issued the historic moon landing challenge These are the stories of the visionaries who helped America complete his vision with the first lunar landing fifty years ago A Companion Book to the AMERICAN EXPERIENCE Film on PBS Going in depth to explore their stories beyond the PBS series writer producer Robert Stone called one of our most important documentary filmmakers by Entertainment Weekly brings these important figures to brilliant life In 1961 President John F Kennedy proposed the nation spend twenty billion dollars to land a man on the Moon before the end of the decade Based on eyewitness accounts and newly discovered archival material Chasing the Moon reveals for the first time the unknown stories of the fascinating individuals whose imaginative work across several decades culminated in America s

momentous achievement More than a story of engineers and astronauts the moon landing now celebrating its fiftieth anniversary grew out of the dreams of science fiction writers filmmakers military geniuses and rule breaking scientists They include Science fiction author Arthur C Clarke whose writing inspired some of the key players in the Moon race A scientific paper he wrote in his twenties led to the U S beating Russia in one area of space communications satellites Wernher von Braun the former Nazi military genius who oversaw Hitler s rocket weapons program After working on ballistic missiles for the U S Army he was recruited by NASA to manage the creation of the Saturn V moon rocket Astronaut Frank Borman commander of the first mission to circumnavigate the Moon whose powerful testimony before Congress in 1967 decisively saved the U S lunar program from being cancelled Poppy Northcutt a young mathematician who was the first woman to work in Mission Control Her media exposure as a unique presence in this all male world allowed her the freedom to stand up for equal rights for women and minorities Edward Dwight an African American astronaut candidate recruited at the urging of the Kennedy White House to further the administration s civil rights agenda but not everyone welcomed his inclusion Setting these key players in the political social and cultural climate of the time and including captivating photographs throughout *Chasing the Moon* focuses on the science and the history but most important the extraordinary individuals behind what was undoubtedly the greatest human achievement of the twentieth century

Hot Equations Jesse S. Cohn, 2024-04-23 Inspired by the new diversity of science fiction fantasy and horror in the twenty first century *Hot Equations* Science Fantasy and the Radical Imagination on a Troubled Planet confronts the kinds of literary and political realism that continue to suppress the radical imagination Alluding both to the ongoing climate catastrophe and to Tom Godwin s *The Cold Equations* that famous touchstone of hard science fiction *Hot Equations* reads the crises of our post normal moment via works that increasingly subvert genre containment and spill out into the public sphere Drawing on archives and contemporary theory author Jesse S Cohn argues that these imaginative works of science fiction fantasy and horror strike at the very foundations of modernity calling its basic assumptions into question They threaten the modern order with a simultaneously terrible and promising anarchy pointing to ways beyond the present medical ecological and political crises of pandemic climate change and rising global fascism Examining books ranging from well known titles like *The Hunger Games* and *The Caves of Steel* to newer works such as *Under the Pendulum Sun* and *The Stone Sky* Cohn investigates the ways in which science fiction fantasy and horror address contemporary politics social issues and more The cold equations that established normal life in the modern world may be in shambles Cohn suggests but a New Black Fantastic makes it possible for the radical imagination to glimpse viable possibilities on the other side of crisis

Tunguska Andy Bruno, 2022-06-30 In 1908 thunderous blasts and blazing fires from the sky descended upon the desolate Tunguska territory of Siberia The explosion knocked down an area of forest larger than London and was powerful enough to obliterate Manhattan The mysterious nature of the event has prompted a wide array of speculation and investigation including from those who suspected that aliens from outer space had been

involved In this deeply researched account of the Tunguska explosion and its legacy in Russian society culture and the environment Andy Bruno recounts the intriguing history of the disaster and researchers attempts to understand it Taking readers inside the numerous expeditions and investigations that have long occupied scientists he foregrounds the significance of mystery in environmental history His engaging and accessible account shows how the explosion has shaped the treatment of the landscape how uncertainty allowed unusual ideas to enter scientific conversations and how cosmic disasters have influenced the past and might affect the future

Astronomy in the Origins of Religion

Cometan,2020-09-15 Official title Do the prehistoric interactions between astronomy and religion form a distinct religious tradition In the dissertation for his Master s of Arts degree from the University of Central Lancashire Cometan introduced and thoroughly explored his theory of the existence of the oldest religious tradition based on astronomical observation which he titles the Astronic tradition or Astronicism In this work which received a Distinction Grade of 87 following its examination Cometan discovers that astronomy and religion were indeed intertwined in prehistoric and ancient times Through archaeological evidence Cometan makes the case for the existence of an Astronic religious tradition stretching back to the Upper Palaeolithic period of the Stone Age some 40 000 years ago Key ideas of Cometan s dissertation work include astromorphism astrolatry astroglyphs astromancy astronomical religion and the theory of an astronomical Urreligion an original or primordial religion

With Freedom in Our Ears Anna Elena Torres,Kenyon Zimmer,2023-05-02 Jewish anarchism has long been marginalized in histories of anarchist thought and action Anna Elena Torres and Kenyon Zimmer edit a collection of essays which recovers many aspects of this erased tradition Contributors bring to light the presence and persistence of Jewish anarchism throughout histories of radical labor women s studies political theory multilingual literature and ethnic studies These essays reveal an ongoing engagement with non Jewish radical cultures including the translation practices of the Jewish anarchist press Jewish anarchists drew from a matrix of secular cultural and religious influences inventing new anarchist forms that ranged from mystical individualism to militantly atheist revolutionary cells *With Freedom in Our Ears* brings together more than a dozen scholars and translators to write the first collaborative history of international multilingual and transdisciplinary Jewish anarchism

Radical Jewish Politics Nathaniel Deutsch,Alma Rachel

Heckman,Tony Michels,2025-12-09 For the first time this volume centers the rich but little known history of radical Jewish politics in the Middle East and North Africa and puts it into conversation with developments in the Americas South Africa Soviet Asia and Europe Jews were attracted to radical politics in the nineteenth and twentieth centuries to transform the societies they lived in but also out of a deep desire to belong Somewhat paradoxically then radical politics held out the enticing possibility of normalization for Jews even as it frequently resulted in their further alienation or persecution In some cases Jewish radicals sought recognition and autonomy as Jews in others Jews labored to be accepted as full fledged citizens of their home countries in still others they tried to escape Jewishness altogether Jewish experiences of modernity colonialism

race nationalism emancipation war and migration serve as the connective tissue that binds together radical Jewish politics from Baghdad to Buenos Aires

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