

# SPACEFLIGHT REVOLUTION



NASA Langley Research Center  
From Sputnik to Apollo

(NASA-SP-4308) SPACEFLIGHT  
REVOLUTION: NASA LANGLEY RESEARCH  
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# Spaceflight Revolution

**Gordon Press Publishers**



## **Spaceflight Revolution:**

**Spaceflight Revolution** David Ashford, 2002-12-10 A revolution in spaceflight is likely soon with the prospect of everyday access to orbit within fifteen years Costly launch vehicles based on ballistic missiles will be replaced by spaceplanes using technology that exists today In five years time a prototype could be built and with a further ten years of detailed development the design could approach airliner maturity reducing the cost of sending people into space some one thousand times to around US 20 000 Spaceplane development has in effect been suppressed by entrenched thinking and short term vested interests But the present monopoly of large government space agencies is becoming unsupportable and the market that understands the very real opportunities for space travel will be reaching critical mass in the near future This book examines these issues and shows why space tourism will one day become the single largest business in space and how astronomy and environmental science will be transformed by low cost access making possible instruments vastly larger than those of today *Spaceflight Revolution* James R. Hansen, 1995 **The Spaceflight Revolution** William Sims Bainbridge, 1976 SPACEFLIGHT REVOLUTION JAMES R. HANSEN, 2018 *Spaceflight Revolution* James R. Hansen, 1995 **Spaceflight Revolution** James R. Hansen, 2014-02 This is a reproduction of a book published before 1923 This book may have occasional imperfections such as missing or blurred pages poor pictures errant marks etc that were either part of the original artifact or were introduced by the scanning process We believe this work is culturally important and despite the imperfections have elected to bring it back into print as part of our continuing commitment to the preservation of printed works worldwide We appreciate your understanding of the imperfections in the preservation process and hope you enjoy this valuable book **Spaceflight Revolution: NASA Langley Research Center from Sputnik to Apollo** National Aeronautics and Space Administration, James Hansen, 2020-02-25 This book presents a careful analysis of the history of the Langley Memorial Aeronautical Laboratory of the National Advisory Committee for Aeronautics NACA from its formation in 1917 to the demise of the NACA in October 1958 when this prestigious organization became the centerpiece of the new National Aeronautics and Space Administration NASA Whereas the NACA was concerned primarily with aeronautical research conducted by government employees in its own laboratories NASA would have a much broader charter that included not only aeronautical and space research but also the development and operation of various types of space vehicles including manned vehicles Within this new organization the Langley Aeronautical Laboratory became the Langley Research Center of NASA As a part of NASA Langley underwent many profound changes in program content organization and management and areas of personnel expertise Although aeronautical research continued in the NASA era research in support of such projects as Echo Scout Mercury Apollo and the Space Shuttle occupied a larger percentage of the Langley research effort as the years passed In addition Langley forged into new fields by assuming management responsibility for such large space projects as Lunar Orbiter and Viking This responsibility involved major contract activities and support of in house

research New research facilities such as large vacuum tanks and high speed and high temperature air jets capable of simulating atmospheric entry from space were developed and constructed James Hansen s new book Spaceflight Revolution covers the turbulent seventeen year period from 1958 1975 in great and interesting detail With his usual thoroughness Hansen has based this book on careful analysis of hundreds of written records both published and unpublished as well as on numerous personal interviews with many of the key individuals involved in the great transition at Langley One Langley activity that was intentionally omitted from this study is aeronautical research which as the author mentions will hopefully be covered in a separate book Spaceflight Revolution is a very complete and well researched exposition and interpretation of a period of great change at the Langley Research Center The main events and trends are clearly and succinctly presented Although many who worked for Langley during the period covered may not agree entirely with some of Hansen s interpretations and conclusions sufficient information is given in the text references and notes to permit the reader to evaluate the work In any event anyone who ever worked for Langley or NACA NASA or who has any interest in the history of technology will find the book fascinating and thought provoking In addition anyone interested in the present and the future of NASA and the American space program will want to pay close attention to the insights found in his epilogue

**Spaceflight Revolution** James R. Hansen, 2015-08-05 Excerpt from Spaceflight Revolution Nasa Langley Research Center From Sputnik to Apollo NASA maintains an internal history program for two principal reasons 1 Sponsorship of research in NASA related history is one way in which Nasa responds to the provision of the National Aeronautics and Space Act of 1958 that requires Nasa to provide for the widest practicable and appropriate dissemination of information concerning its activities and the results thereof 2 Thoughtful study of Nasa history can help agency managers accomplish the missions assigned to the agency Understanding NASA s past aids in understanding its present situation and illuminates possible future directions The opinions and conclusions set forth in this book are those of the author no official of the agency necessarily endorses those opinions or conclusions About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

[The Case for Space](#) Robert Zubrin, 2019 A new space race has begun But the rivals in this case are not superpowers but competing entrepreneurs These daring pioneers are creating a revolution in spaceflight that promises to transform the near future Astronautical engineer Robert Zubrin spells out the potential of these new developments in an engrossing narrative that is visionary yet grounded by a deep understanding of the practical challenges Fueled by the combined expertise of the old aerospace industry and the talents of Silicon Valley entrepreneurs

spaceflight is becoming cheaper The new generation of space explorers has already achieved a major breakthrough by creating reusable rockets Zubrin foresees more rapid innovation including global travel from any point on Earth to another in an hour or less orbital hotels moon bases with incredible space observatories human settlements on Mars the asteroids and the moons of the outer planets and then breaking all limits pushing onward to the stars Publisher s website

**Spaceflight Revolution** Gordon Press Publishers,1997-06 **Spaceflight Revolution** ,1995 **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 Purchase the audio edition

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**The space flight revolution** William Sims Bainbridge,1976 *U.S. Space Launch-Vehicle Technology* J. D. Hunley,2026-03-03 A two volume overview of U S missile and rocket technology For nearly fifty years a wide range of missiles and rockets has propelled U S satellites and spacecraft into the sky J D Hunley s two volume work traces the evolution of this technology from Robert Goddard s research

in the 1920s through the development of the Titan missiles and launch vehicles in the 1960s to the refinement of the space shuttle in the 1980s With the first book devoted primarily to military hardware and the second to launch vehicle hardware Hunley offers a sweeping overview of these impressive engineering innovations as well as insights into the dynamic personalities responsible for them Together the two volumes offer a unique invaluable history of rocketry that should appeal to a wide range of scholars and space buffs

**Privatizing Space** Giuseppe De Chiara, Davide Sivolella, 2025-10-01 This book is a fast paced account supported by striking compelling renderings of how spaceflight has been forever changed since NASA heralded the Commercial Orbital Transportation Services COTS program on January 18th 2006 Spaceflight was once a clunky affair ruled by inefficient cost plus models that gravely hampered the rapid pace of innovation while extorting a tremendous ransom to the taxpayers In a single volume you will embark on a thrilling journey of how major and lesser known launcher and spacecraft manufacturers have devoted their resources to bring forward a vision of profit by rapid innovation offering transportation services from LEO through cis lunar space and beyond Earth s sphere of influence This book recognizes NASA s COTS program as a pivot point in the history of the space agency and worldwide space industry and charts two story arcs before COTS BC and after COTS AC The reader will understand how much the space industry has benefitted from the introduction of COTS in the pursuit of making humankind a spacefaring civilization This book will feature numerous stunning original illustrations cross sections close up views and many more meticulously crafted by renowned space artist Giuseppe De Chiara As the saying goes a picture is worth a thousand words and these stunning images will capture the reader offering an exclusive intellectual experience

Spaceflight, 1996 *John Houbolt* William F. Causey, 2020-03-15 In May 1961 President Kennedy announced that the United States would attempt to land a man on the moon and return him safely to the earth before the end of that decade Yet NASA did not have a specific plan for how to accomplish that goal Over the next fourteen months NASA vigorously debated several options At first the consensus was to send one big rocket with several astronauts to the moon land and explore and then take off and return the astronauts to earth in the same vehicle Another idea involved launching several smaller Saturn V rockets into the earth orbit where a lander would be assembled and fueled before sending the crew to the moon But it was a small group of engineers led by John C Houbolt who came up with the plan that propelled human beings to the moon and back not only safely but faster cheaper and more reliably Houbolt and his colleagues called it lunar orbit rendezvous or LOR At first the LOR idea was ignored then it was criticized and then finally dismissed by many senior NASA officials Nevertheless the group under Houbolt s leadership continued to press the LOR idea arguing that it was the only way to get men to the moon and back by President Kennedy s deadline Houbolt persisted risking his career in the face of overwhelming opposition This is the story of how John Houbolt convinced NASA to adopt the plan that made history

**The Dream Of Spaceflight** Wyn Wachhorst, 2001-05-17 One of few truly gifted essayists who have turned their talents to science Wyn Wachhorst here fashions a luminous meditation on the

meaning of space exploration from a montage of images and reflections on humanity's dream of spaceflight. In a survey of major figures from Johannes Kepler to Wernher von Braun, he sees in the rise of spaceflight a metaphor of modern history as a recurrent story of transformation and rebirth. Other essays offer new perspectives on the nature of wonder, recall the romantic vision of the decades prior to Sputnik, nostalgia for a bygone future, and look at the larger meaning of the moon landing, seeing in spaceflight not only a spiritual quest in the broadest sense of the word but a cure for the withered capacity for wonder that afflicts the postmodern mind.

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