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*Low-Cost Innovation In the U.S. Space Program*



# Faster Better Cheaper Low Cost Innovation In The U S Space Program

**William Starbuck, Moshe Farjoun**



## **Faster Better Cheaper Low Cost Innovation In The U S Space Program:**

**Faster, Better, Cheaper** Howard E. McCurdy, 2003-04-01 This excellent summary of an important part of NASA's history is recommended for all readers. Choice In *Faster Better Cheaper Low Cost Innovation in the U S Space Program* Howard E. McCurdy examines NASA's recent efforts to save money while improving mission frequency and performance. McCurdy details sixteen missions undertaken as the twentieth century drew to a close including an orbit of the moon, deployment of three space telescopes, four Earth orbiting satellites, two rendezvous with comets and asteroids, and a test of an ion propulsion engine which cost less than the sum traditionally spent on a single conventionally planned planetary mission. He shows how these missions employed smaller spacecraft and cheaper technology to undertake less complex and more specific tasks in outer space. While the technological innovation and space exploration approach that McCurdy describes is still controversial, the historical perspective on its disappointments and triumphs points to ways of developing faster, better, and cheaper as a management manifesto. Readers interested in either the management or economics of complex organizations will find a wealth of material in this well-written exposition. Fans of space travel like the author himself will also enjoy the behind-the-scenes look at NASA's operation. *Enterprise and Society: Low-cost Innovation in Spaceflight* Howard E. McCurdy, 2005 NASA historical data book, Volume 7: NASA Launch Systems Space Transportation/Human Space Flight, 1988 **NASA Spaceflight** Roger D. Launius, Howard E. McCurdy, 2017-10-11 This book presents the first comprehensive history of innovation at NASA, bringing together experts in the field to illuminate how public-private and international partnerships have fueled new ways of exploring space since the beginning of space travel itself. Twelve case studies trace the messy, risky history of such partnerships, exploring the role of AT. All have challenged conventional methods of doing the public's business in space. Together, these essays offer new insights into how innovation happens with invaluable lessons for policymakers, investors, economists, and members of the space community. **Science and Technology in the Global Cold War** Naomi Oreskes, John Krige, 2014-11-07 Investigations of how the global Cold War shaped national scientific and technological practices in fields from biomedicine to rocket science. The Cold War period saw a dramatic expansion of state-funded science and technology research. Government and military patronage shaped Cold War technoscientific practices, imposing methods that were project-oriented, team-based, and subject to national security restrictions. These changes affected not just the arms race and the space race but also research in agriculture, biomedicine, computer science, ecology, meteorology, and other fields. This volume examines science and technology in the context of the Cold War, considering whether the new institutions and institutional arrangements that emerged globally constrained technoscientific inquiry or offered greater opportunities for it. The contributors find that whatever the particular science and whatever the political system in which that science was operating, the knowledge that was produced bore some relation to the goals of the nation-state. These goals varied from nation to nation; weapons research was emphasized in the United States and the Soviet

Union for example but in France and China scientific independence and self reliance dominated The contributors also consider to what extent the changes to science and technology practices in this era were produced by the specific politics anxieties and aspirations of the Cold War Contributors Elena Aronova Erik M Conway Angela N H Creager David Kaiser John Krige Naomi Oreskes George Reisch Sigrid Schmalzer Sonja D Schmid Matthew Shindell Asif A Siddiqi Zuoyue Wang Benjamin Wilson NASA Historical Data Book: NASA launch systems, space transportation, human spaceflight, and space science, 1989-1998, 1988 **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 **NASA Historical Data Book: NASA launch systems, space transportation**, 1988 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      *Exploring the Solar System* R. Launius, 2012-12-28

Beginning in the early days of the Space Age well before the advent of manned spaceflight the United States followed soon by other nations undertook an ambitious effort to study the planets of the solar system The remarkable fruits of this research revolutionized the public's view of their celestial neighbors capturing the imaginations of people from all backgrounds like nothing else save the Apollo lunar missions From the first space probes to the most recent planetary rovers they have continually delivered impressive discoveries and reshaped our understanding of the cosmos Offering fascinating investigations into this crucial chapter in space history this collection of specially commissioned essays from leading historians opens new vistas in our understanding of the development of planetary science      **The Space Station Decision**

Howard E. McCurdy, 2007-12-12 Outstanding Academic Title 1991 Choice Magazine Although building a space station has been an extraordinary challenge for America's scientists and engineers the securing and sustaining of presidential approval congressional support and long term funding for the project was an enormous task for bureaucrats The Space Station Decision examines the history of this controversial initiative and illustrates how bureaucracy shapes public policy Using primary documents and interviews Howard E. McCurdy describes the events that led up to the 1984 decision to build a permanently occupied international space station in low Earth orbit As he follows the trail of the space station proposal through the labyrinth of White House policy review McCurdy explains the evolution of the presidential budget review process the breakup of the cabinet system the proliferation of subcabinets and Executive Office interagency the involvement of White House staff in framing issues for presidential review and the role of bureaucracy in advancing administration legislation on Capitol Hill Comparing the space station decision to earlier decisions to go to the moon and to build the space shuttle McCurdy shows how public officials responsible for long term science and technology policy maneuvered in a political system that demanded short term flexibility      Space Policy in the Twenty-First Century W. Henry Lambright, 2003 Though more than forty years old the space age has just begun and questions about its future abound What will replace the Space Shuttle Will the International Space Station justify its 100 billion potential cost Are asteroids real threats to Earth or just the subject of science fiction movies Will humans land on Mars Will the search for extraterrestrial life be rewarded In *Space Policy in the Twenty First Century* W. Henry Lambright brings together ten top ranking observers of United States space exploration to address these and other issues relating to the future of the space program While the U.S. no longer competes with the Soviets for technological firsts they argue ideology and national image remain at the core of space policy with other factors playing subordinate roles Reminding readers of the historical highlights the authors pose searching questions about the priorities and applications of space science manned vs unmanned flights and commercial access to the space enterprise Contributors include Christopher F. Chyba SETI Institute and Stanford University Ronald J. Deibert University of Toronto Daniel H. Deudney the Johns Hopkins University W. Henry Lambright Syracuse University Roger D. Launius NASA Karl A. Leib Syracuse

University John M Logsdon George Washington University Howard E McCurdy American University Scott N Pace White House Office of Science and Technology Policy and Debora L VanNijnatten Wilfrid Laurier University

**The Business of Systems Integration** Andrea Prencipe, Andrew Davies, Michael Hobday, 2005-04-14 Over the past decade or so systems integration has become a key factor in the operations strategy and competitive advantage of major corporations in a wide variety of sectors e.g. computing, automotive, telecommunications, military systems and aerospace. Systems integration is a strategic task that pervades business management not only at the technical level but also at the management and strategic levels. This book shows how and why this new kind of systems integration has evolved into an emerging model of industrial organization whereby firms and groups of firms join together different types of knowledge, skill and activity as well as hardware, software and human resources to produce new products for the marketplace. This book is the first to systematically explore systems integration from a business and innovation perspective. Contributors delve deeply into the nature, dimensions and dynamics of the new systems integration, deploying research and analytical techniques from a wide variety of disciplines including the theory of the firm, the history of technology, industrial organization, regional studies, strategic management and innovation studies. This wealth of research capability provides deep insights into the new model of systems integration and supports this with an abundance of empirical evidence. The book is organized in three main parts. The first part focuses on the history of systems integration. Contributors trace the early history of systems integration using different industrial examples. The second part presents theoretical and analytical aspects of systems integration. Contributions concentrate on the regulatory and cognitive features of systems integration, the relationships between systems integration and regional competitive advantage and the way in which systems integration supports the competitive advantage of firms. The third part takes industry and firm level approaches. Contributions focus on different sectors and highlight the specificity of systems integration in various industrial domains, stressing its importance for systems integration in the case of complex capital goods such as aircraft and telecommunications equipment as well as consumer goods such as personal computers and automobiles.

*The Secret of Apollo* Stephen B. Johnson, 2003-04-29 Skillfully interweaving technical details and fascinating personalities, Johnson tells the history of systems management in the U.S. and Europe. Howard McCurdy, author of *Space and the American Imagination*, Winner of the Emme Award for Astronautical Literature from the American Astronautical Society. How does one go about organizing something as complicated as a strategic missile or space exploration program? Stephen B. Johnson here explores the answer: systems management. In a groundbreaking study that involves Air Force planners, scientists, technical specialists and eventually bureaucrats, Johnson takes a comparative approach. Johnson focuses on the theory or intellectual history of systems engineering as such, its origins in the Air Force's Cold War ICBM efforts and its migration to not only NASA but the European Space Agency. Exploring the history and politics of aerospace development and weapons procurement, Johnson examines how scientists and engineers created the systems management process to coordinate large-scale technology.

development and how managers and military officers gained control of that process Those funding the race demanded results Johnson explains In response development organizations created what few expected and what even fewer wanted a bureaucracy for innovation To begin to understand this apparent contradiction in terms we must first understand the exacting nature of space technologies and the concerns of those who create them Johnson s in depth nuts and bolts manual sheds much light on a seldom studied secret of our recent space history Space Review A book for general readers interested in business and management issues in the space program Choice Space Politics and Policy E. Sadeh,2006-04-11 Space Politics and Policy An Evolutionary Perspective provides a comprehensive survey of Space Policy This book is organized around two themes Space Policy is evolutionary in that it has responded to dramatic political events such as the launching of Sputnik and the Cold War and has undergone dynamic and evolutionary policy changes over the course of the space age Space Policy is an integral part of and interacts with public policy processes in the United States and abroad The book analyzes Space Policy at several levels including historical context political actors and institutions political processes and policy outcomes It examines the symbiotic relationships between policy technology and science provides a review and synthesis of the existing body of knowledge in Space Policy and identifies Space Policy trends and developments from the beginnings of the space age through the current era of the twenty first century *Exploration and Science* Michael Sean Reidy,Gary Kroll,Erik M. Conway,2006-12-27 This comprehensive volume explores the intricate mutually dependent relationship between science and exploration how each has repeatedly built on the discoveries of the other and in the process opened new frontiers A simple question Which came first advances in navigation or successful voyages of discovery A complicated answer Both and neither For more than four centuries scientists and explorers have worked together sometimes intentionally and sometimes not in an ongoing symbiotic partnership When early explorers brought back exotic flora and fauna from newly discovered lands scientists were able to challenge ancient authorities for the first time As a result scientists not only invented new navigational tools to encourage exploration but also created a new approach to studying nature in which observations were more important than reason and authority The story of the relationship between science and exploration analyzed here for the first time is nothing less than the history of modern science and the expanding human universe **Organization at the Limit** William Starbuck,Moshe Farjoun,2009-02-09 The book offers important insight relevant to Corporate Governmentand Global organizations management in general The internationallyrecognised authors tackle vital issues in decision making howorganizational risk is managed how can technological andorganizational complexities interact what are the impediments foreffective learning and how large medium and small organizationscan and in fact must increase their resilience Managers organizational consultants expert professionals and trainingspecialists particularly those in high risk organizations mayfind the issues covered in the book relevant to their daily workand a potential catalyst for thought and action A timely analysis of the Columbia disaster and theorganizational lessons that can be

learned from it Includes contributions from those involved in the Investigation Board report into the incident Tackles vital issues such as the role of time pressures and goal conflict in decision making and the impediments for effective learning Examines how organizational risk is managed and how technological and organizational complexities interact Assesses how large medium and small organizations can and in fact must increase their resilience Questions our eagerness to embrace new technologies yet reluctance to accept the risks of innovation Offers a step by step understanding of the complex factors that led to disaster

*Commerce in Space: Infrastructures, Technologies, and Applications* Olla, Phillip, 2007-07-31 This book explains the role of earth observation satellite initiatives to meet information needs It details the importance of the space infrastructure to deliver IT capabilities such as mobile broadband Internet and mobile communication connectivity it also offers a review of how space technology can influence the future of IT architecture in health education logistics business and accounting Provided by publisher

Centennials Professor Alex Hill, 2023-06-15 Start ups rarely survive their second birthday Even established firms in the UK and the US average a life of only fifteen years So how can your company build and sustain success for decades to come Professor Alex Hill has conducted thirteen years of groundbreaking research into a clutch of organisations that have outperformed their peers for over 100 years from NASA to the New Zealand All Blacks from Eton College and the Royal College of Art to the Royal Marines and the Royal Shakespeare Company And what he has found is that these very different organisations all share remarkably similar strategies when it comes to building and maintaining excellence and success strategies that frequently fly in the face of conventional business wisdom Here Professor Hill shares the twelve traits that have set these organisations apart for over a century from the way they analyse success and failure to their approach to finding the best people and the brightest new ideas In so doing he identifies the strategies and habits that you can employ in your company to create a strong and stable core and to ensure the same long term prosperity In short he shows you how to build a promising enterprise into an enduring great organisation

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An instant classic Charles Handy author of *The Empty Raincoat* and *The Second Curve* Every CEO should be given a copy with their morning coffee Robin Dunbar Professor of Evolutionary Psychology at the University of Oxford If you want to learn what it takes to achieve truly sustainable success in an organisation then this is a book for you Shaun Fitzgerald OBE Director of the Centre for Climate Repair at the University of Cambridge

**Reliability, Risk, and Safety, Three Volume Set** Radim Bris, Carlos Guedes Soares, Sebastián Martorell, 2009-08-20 Containing papers presented at the 18th European Safety and Reliability Conference Esrel 2009 in Prague Czech Republic September 2009 Reliability Risk and Safety Theory and Applications will be of interest for academics and professionals working in a wide range of industrial and governmental sectors including civil and environmental engineering energy production and distribution information technology and telecommunications critical infrastructures and insurance and finance



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