

The history of space exploration

1957 October 4
Sputnik
First satellite (USSR)

1957 November 3
Laika
first animal (USSR)

1961 April 12
Yuri Gagarin
First man (USSR)

1963 June 16
Valentina Tereshkova
First woman (USSR)

1969 July 20
Neil Armstrong
First step on the Moon (US)

1976
Viking 1 and 2
(US)
First probes on Mars

1986
Space shuttle Challenger
Accident

1990 April 24
Hubble space telescope
Placed into orbit

1998
International station station
First module of the station

2003
Space shuttle Columbia
Accident

2004-2018
The rover Opportunity
Explores the surface of Mars

2008
Falcon 1 First successful flight of the company SpaceX

2019
China lands probe on Moon, January 4

The Americans commit to returning to the Moon in 2024

Source: NASA

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Space History

Michael J. Neufeld



Space History:

Heavens & The Earth Walter A. McDougall, 1985-04-30 Chronicles the political history of the space race from its nineteenth century beginnings with the rocketry pioneers to the Cold War competition in which space became another area embraced by the U S and U S S R

The Smithsonian History of Space Exploration Roger D. Launius, 2018-10-23 The first in depth fully illustrated history of global space discovery and exploration from ancient times to the modern era The Smithsonian History of Space Exploration examines civilization s continued desire to explore the next frontier as only the Smithsonian can do it Buzz Aldrin Gemini 12 and Apollo 11 astronaut and author of No Dream Is Too High Former NASA and Smithsonian space curator and historian Roger D Launius presents a comprehensive history of our endeavors to understand the universe honoring millennia of human curiosity ingenuity and achievement This extensive study of international space exploration is packed with over 500 photographs illustrations graphics and cutaways plus plenty of sidebars on key scientific and technological developments influential figures and pioneering spacecraft Starting with space exploration s origins in the pioneering work undertaken by ancient civilizations and the great discoveries of the Renaissance thinkers Launius also devotes whole chapters to our space race to the Moon space planes and orbital stations and the lure of the red planet Mars He also offers new insights into well known moments such as the launch of Sputnik 1 and the Apollo Moon landing and explores the unexpected events and hidden figures of space history The final chapters cover the technological and mechanical breakthroughs enabling humans to explore far beyond our own planet in recent decades speculating on the future of space exploration including space tourism and our possible future as an extraterrestrial species This is a must read for space buffs and everyone intrigued by the history and future of scientific discovery This oversize offering is a space nerd s dream come true Booklist

Space Flight Lance K. Erickson, 2010-08-16 This book offers a comprehensive look at the history of space exploration the technology that makes it possible and the continued efforts that promise to carry us into the future It goes through the history of space exploration from the earliest sub orbital and orbital mis

Space Travel Wernher Von Braun, 1985

Reaching for the Moon Roger D. Launius, 2019-06-25 Fifty years after the Moon landing a new history of the space race explores the lives of both Soviet and American engineers At the dawn of the space age technological breakthroughs in Earth orbit flight were both breathtaking feats of ingenuity and disturbances to a delicate global balance of power In this short book aerospace historian Roger D Launius concisely and engagingly explores the driving force of this era the race to the Moon Beginning with the launch of Sputnik 1 in October 1957 and closing with the end of the Apollo program in 1972 Launius examines how early space exploration blurred the lines between military and civilian activities and how key actions led to space firsts as well as crushing failures Launius places American and Soviet programs on equal footing following American aerospace engineers Wernher von Braun and Robert Gilruth their Soviet counterparts Sergei Korolev and Valentin Glushko and astronaut Buzz Aldrin and cosmonaut Alexei Leonov to highlight key actions that led to various

successes failures and ultimately the American Moon landing Space Exploration in the United States Thomas Gangale,2019-11-11 This select volume of historical documents is organized chronologically spanning from 1914 to the present Divided into eight chapters it includes a narrative introduction to each historical period This collection of historical documents provides insight into the history of the United States in its pursuit of the peaceful uses of outer space with emphasis on the manned space program of the National Aeronautics and Space Administration as well as commercial American activities supporting human spaceflight in the early 21st century Rocketry and space technology have served varied goals throughout the Space Age pure research as well as research applied for national security national prestige and commercial profit There have been varied actors as well among them individuals supported by philanthropists as well as governments intergovernmental organizations international consortiums and for profit corporations This book focuses on space exploration and in particular human space exploration leading to the questions Why have humans gone into outer space in the past and Why will they do so in the future These documents help readers to examine the variety of fascinating answers to those questions **A Brief Illustrated History of Space Exploration** Robert Snedden,2017-01-01 A Brief Illustrated History of Space Exploration charts the history of space exploration and discovery all the way through from the early rocketeers through the first people in space and the Space Race to be first to reach the Moon the first Space Stations and all the way through to the incredible findings of today With stunning full color images and illustrations this beautiful book is sure to fascinate and charm the young reader *Orbital Futures, Selected Documents in Air Force Space History, Vol. 2, 2004* ,2004 *Orbital Futures, Selected Documents in Air Force Space History, Vol. 1, 2004* ,2004 The History of Human Space Flight Ted Spitzmiller,2017-02-21 Military Writers Society of America Awards Gold Medal for History Highlighting men and women across the globe who have dedicated themselves to pushing the limits of space exploration this book surveys the programs technological advancements medical equipment and automated systems that have made space travel possible Beginning with the invention of balloons that lifted early explorers into the stratosphere Ted Spitzmiller describes how humans first came to employ lifting gasses such as hydrogen and helium He traces the influence of science fiction writers on the development of rocket science looks at the role of rocket societies in the early twentieth century and discusses the use of rockets in World War II warfare Spitzmiller considers the engineering and space medicine advances that finally enabled humans to fly beyond the earth s atmosphere during the space race between the United States and the Soviet Union He recreates the excitement felt around the world as Yuri Gagarin and John Glenn completed their first orbital flights He recounts triumphs and tragedies such as Neil Armstrong s one small step and the Challenger and Columbia disasters The story continues with the development of the International Space Station NASA s interest in asteroids and Mars and the emergence of China as a major player in the space arena Spitzmiller shows the impact of space flight on human history and speculates on the future of exploration beyond our current understandings of physics and the known boundaries of time and

space **Space Forces** Fred Scharmen,2021-11-02 The radical history of space exploration from the Russian Cosmists to Elon Musk Many societies have imagined going to live in space What they want to do once they get up there whether conquering the unknown establishing space colonies privatising the moon s resources reveals more than expected In this fascinating radical history of space exploration Fred Scharmen shows that often science and fiction have combined in the imagined dreams of life in outer space but these visions have real implications for life back on earth For the Russian Cosmists of the 1890s space was a place to pursue human perfection away from the Earth For others such as Wernher Von Braun it was an engineering task that combined in the Space Race the Cold War and during World War II with destructive geopolitics Arthur C Clark in his speculative books offered an alternative vision of wonder that is indifferent to human interaction Meanwhile NASA planned and managed the space station like an earthbound corporation Today the market has arrived into outer space and exploration is the plaything of superrich technology billionaires who plan to privatise the mineral wealth for themselves Are other worlds really possible Bringing these figures and ideas together reveals a completely different story of our relationship with outer space as well as the dangers of our current direction of extractive capitalism and colonisation

The History of Space Exploration Roger D. Launius,2018 For centuries humanity has engaged in a virtual exploration of space through astronomical observation aided by astounding scientific and technological advances In more than sixty years since the launch of Sputnik 1 in 1957 more than 6 000 functioning satellites have been launched into Earth s orbit and beyond some to the farthest reaches of the Solar System and more than 540 people have travelled into space Unprecedented in its chronological and geographical scope this book charts the history of space exploration from the first gunpowder rockets through the Moon landings and into a future of space tourism Numerous sidebars focus on the key individuals and inventions that brought us closer to the farthest reaches of the universe Filled with astonishing images from the Smithsonian NASA archives and other international collections this is the first in depth fully illustrated survey of this universal human journey

Critical Issues in the History of Spaceflight Stephen J. Dick,Steven J. Dick,Roger D. Launius,2006 In March 2005 the NASA History Division and the Division of Space History at the National Air and Space Museum brought together a distinguished group of scholars to consider the state of the discipline of space history This volume is a collection of essays based on those deliberations The meeting took place at a time of extraordinary transformation for NASA stemming from the new Vision of Space Exploration announced by President George W Bush in January 2004 to go to the Moon Mars and beyond This Vision in turn stemmed from a deep reevaluation of NASA s goals in the wake of the Space Shuttle Columbia accident and the recommendations of the Columbia Accident Investigation Board The new goals were seen as initiating a New Age of Exploration and were placed in the context of the importance of exploration and discovery to the American experiences

Amazon **Critical issues in the history of spaceflight** Steven J. Dick,2018 **Countdown** T. A. Heppenheimer,1997-04-15 Offers a comprehensive account of the efforts to explore outer space and reveals the events which

shaped both the U S and Soviet space programs **NASA** Roger D. Launius,1994 When future generations review the history of the twentieth century they will undoubtedly judge humanity s movement into space space with both machines and people as one of its seminal developments Even at this juncture the complex nature of spaceflight and the activity that it has engendered on the part of many peoples and governments makes the U S civil space program a significant area of investigation People from form all avenues of experience and levels of education share an interest in the drama of spaceflight This book is the most up to date synthesis of the American civil space program available and the only one designed especially for use as a college textbook Written by NASA s chief historian itit describes the history of this effort from its earliest origins to the early 1990s and offers a powerful analysis of the space program that merges political economic technological scientific and foreign affairs into a meaningful whole As in all the Anvil Series texts it has both a sound historical narrative and a set of key documents which suggest other aspects of the story **Spaceflight** Michael J. Neufeld,2018-10-16 A concise history of spaceflight from military rocketry through Sputnik Apollo robots in space space culture and human spaceflight today Spaceflight is one of the greatest human achievements of the twentieth century The Soviets launched Sputnik the first satellite in 1957 less than twelve years later the American Apollo astronauts landed on the Moon In this volume of the MIT Press Essential Knowledge series Michael Neufeld offers a concise history of spaceflight mapping the full spectrum of activities that humans have developed in space Neufeld explains that the space program should not be equated only with human spaceflight Since the 1960s unmanned military and commercial spacecraft have been orbiting near the Earth and robotic deep space explorers have sent back stunning images of faraway planets Neufeld begins with the origins of space ideas and the discovery that rocketry could be used for spaceflight He then discusses the Soviet U S Cold War space race and reminds us that NASA resisted adding female astronauts even after the Soviets sent the first female cosmonaut into orbit He analyzes the two rationales for the Apollo program prestige and scientific discovery this last something of an afterthought He describes the internationalization and privatization of human spaceflight after the Cold War the cultural influence of space science fiction including Star Trek and Star Wars space tourism for the ultra rich and the popular desire to go into space Whether we become a multiplanet species as some predict or continue to call Earth home this book offers a useful primer

History of Rocketry & Space Travel Wernher Von Braun,Frederick Ira Ordway (III),1975 It reviews the work of three great pioneers of the early part of the twentieth century America s Goddard Germany s Oberth and Russia s Tsiolkovsky as well as the accomplishments of Esnault Pelterie in France Isaac Lubbock s work on liquid propellants in Great Britain and the development of the Russian Katyusha It details the experiments of von Braun and Walter R Dornberger in German before World War II and gives a full account of the work of their development team on the V 2 rocket at the Peenemunde Center The dramatic story of the German scientists surrender to American forces in 1945 as well as their eventual accomplishments at the Army s Redstone Arsenal and subsequently NASA s Marshal Space Flight Center in Huntsville Alabama is also told at first

hand **History of Space Exploration** Tim Furniss, 2005 A detailed look at space from the first rocket launch to how the continued potential for space exploration alters the way man looks at his world *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

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