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The fascinating story of how NASA sent humans to explore outer space, told through a treasure trove of historical documents--publishing in celebration of NASA's 60th anniversary and with a foreword by Bill Nye "An extremely useful and thought provoking documentary journey through the maze of space history. There is no wiser or more experienced navigator through the twists and turns and ups and downs than John Logsdon." -James Hansen, New York Times bestselling author of First Man, now a feature film starring Ryan Gosling and Claire Foy Among all the technological accomplishments of the last century, none has captured our imagination more deeply than the movement of humans into outer space. From Sputnik to SpaceX, the story of that journey--including the inside history of our voyages to the moon depicted in First Man--is told as never before in The Penguin Book of Outer Space Exploration. Renowned space historian John Logsdon traces the greatest moments in human spaceflight by weaving together essential, fascinating documents from NASA's history with his expert narrative guidance. Beginning with rocket genius Wernher von Braun's vision for voyaging to Mars, and closing with Elon Musk's contemporary plan to get there, this volume traces major events like the founding of NASA, the first American astronauts in space, the Apollo moon landings, the Challenger disaster, the daring Hubble Telescope repairs, and more. In these pages, we such gems as Eisenhower's reactions to Sputnik, the original NASA astronaut application, John Glenn's reflections on zero gravity, Kennedy's directives to go to the moon, discussions on what Neil Armstrong's first famous first words should be, firsthands accounts of spaceflight, and so much more. Awarded the 2016 International Academy of Astronautics Life Science Book Award! Using anecdotal reports from astronauts and cosmonauts, and the results from studies conducted in space analog environments on Earth and in the actual space environment, this book broadly reviews the various psychosocial issues that affect space travelers. Unlike other books that are more technical in format, this text is targeted for the general public. With the advent of space tourism and the increasing involvement of private enterprise in space, there is now a need to explore the impact of space missions on the human psyche and on the interpersonal relationships of the crewmembers. Separate chapters of the book deal with psychosocial stressors in space and in space analog environments; psychological, psychiatric, interpersonal, and cultural issues pertaining to space missions; positive growth-enhancing aspects of space travel; the crew-ground interaction; space tourism; countermeasures for dealing with space; and unique aspects of a trip to Mars,

the outer solar system, and interstellar travel. This volume is nearly 500 pages and topics covered include: Gigantic Follies? Human Exploration and the Space Age in Long-term Historical Perspective; National Aspirations on a Global Stage: Fifty Years of Spaceflight; Building Space Capability through European Regional Collaboration; Imagining an Aerospace Agency in the Atomic Age; Creating a Memory of the German Rocket Program for the Cold War; Operation Paperclip in Huntsville, Alabama; The Great Leap Upward: China's Human Spaceflight Program and Chinese National Identity; The "Right" Stuff: The Reagan Revolution and the U.S. Space Program; Great (Unfulfilled) Expectations: To Boldly Go Where No Social Scientist and Historian Have Gone Before; Far Out: The Space Age in American Culture; A Second Nature Rising: Spaceflight in an Era of Representation; Creating Memories: Myth, Identity, and Culture in the Russian Space Age; The Music of Memory and Forgetting: Global Echoes of Sputnik 2; From the Cradle to the Grave: Cosmonaut Nostalgia in Soviet and Post-Soviet Film; Discovering the Iconic in Space Exploration Photography; Robert A. Heinlein's Influence on Spaceflight; American Spaceflight History's Master Narrative and the Meaning of Memory; A Melancholic Space Age Anniversary; Has Space Development Made a Difference?; Has There Been a Space Age?; and Cultural Functions of Space Exploration. NASA-SP-2008-4703 The Space Shuttle has been the dominant machine in the U.S. space program for thirty years and has generated a great deal of interest among space enthusiasts and engineers. This book enables readers to understand its technical systems in greater depth than they have been able to do so before. The author describes the structures and systems of the Space Shuttle, and then follows a typical mission, explaining how the structures and systems were used in the launch, orbital operations and the return to Earth. Details of how anomalous events were dealt with on individual missions are also provided, as are the recollections of those who built and flew the Shuttle. Many photographs and technical drawings illustrate how the Space Shuttle functions, avoiding the use of complicated technical jargon. The book is divided into two sections: Part 1 describes each subsystem in a technical style, supported by diagrams, technical drawings, and photographs to enable a better understanding of the concepts. Part 2 examines different flight phases, from liftoff to landing. Technical material has been obtained from NASA as well as from other forums and specialists. Author Davide Sivolella is an aerospace engineer with a life-long interest in space and is ideally qualified to interpret technical manuals for a wider audience. This book provides comprehensive coverage of

the topic including the evolution of given subsystems, reviewing the different configurations, and focusing on the solutions implemented. Have you ever dreamed of being an astronaut? Wondered what it might be like to see the sun set sixteen times in one day? Open this book and be transported on an information-packed voyage aboard the space shuttle. True Kelley's kid-friendly diagrams and illustrations and Franklyn Branley's straightforward text reveal what astronauts eat, how they move, and what kinds of work they do in space. The "Cape Canaveral" stories, eight stories originally published between 1962 and 1985. Meet the Rocket City Rednecks. They're five "backwoods" guys from the rocket city: Huntsville, Alabama, home to NASA's Marshall Space Flight Center and the birthplace of the U.S. space program. Sure, they love to shoot stuff and drink beer, and one of 'em lives in a trailer, but with a family tree full of NASA rocket scientists (not to mention their own PhDs and advanced degrees), they aim a little higher¾like using homemade moonshine to fuel a rocket! Now, in typical laidback style, Dr. Travis S. Taylor, leader of the crew, delivers the goods on how America can return to space exploration and manned space flight. What's needed is a good old "try anything" attitude, a bit of gumption, and the spectacularly entertaining backyard science that's the Rocket City Redneck specialty. At the publisher's request, this title is sold without DRM (Digital Rights Management). This is a completely updated and revised version of a monograph published in 2002 by the NASA History Office under the original title Deep Space Chronicle: A Chronology of Deep Space and Planetary Probes, 1958-2000. This new edition not only adds all events in robotic deep space exploration after 2000 and up to the end of 2016, but it also completely corrects and updates all accounts of missions from 1958 to 2000--Provided by publisher. A NASA science educator showcases important objects in space history from Galileo's telescope to the Curiosity rover: "Will fascinate readers of any age." —Publishers Weekly (starred review) This book examines 100 objects that forever altered what we know and how we think about the cosmos. From an ancient Mayan codex to Sputnik to Skylab and into the twenty-first century, some objects are iconic and some obscure—but all are utterly important. The Nebra sky disk (1600 BCE) features the first realistic depiction of the sun, moon, and stars. The Lunar Laser Ranging RetroReflector finally showed us how far we are from the moon in 1969. In 1986, it was the humble, rubber O-ring that doomed the space shuttle Challenger. The Event Horizon Telescope gave us our first glimpse of a black hole in 2019. These 100 objects showcase the workhorse tools and game-

changing technologies that have altered the course of space history—and the small steps and giant leaps we've made in our quest to explore the farthest reaches of the universe. "Addictive . . . This diverse assortment of STEM milestones provides science, technology, and space enthusiasts plenty to ponder—and even debate." —Booklist Unseen images of the International Space Station, untenanted and eerie: the legacy of humanity's fragile foothold in space On November 2 2020, NASA celebrates the 20th anniversary of continuous human habitation in space of the International Space Station. In Interior Space, American photographer Roland Miller and Italian astronaut and photographer Paolo Nespoli offer an in-depth portrait of the ISS, creating amazing unpeopled images of the interior of the ISS for the first time. As internationally acclaimed scholars of space archaeology Alice Gorman and Justin St. P. Walsh write in their essays, the ISS speaks not only of who we are and will be, but also of who we were. In 2024 the ISS will be abandoned; in 2028 it will be destroyed. This book provides us with an eerie account of what will remain in the space after our passing. Italian-born astronaut Paolo Nespoli(born 1957) spent 313 days in space. After a career in the military, he earned a M.Sc. in Aerospace Engineering, then joined the European Space Agency spending time in Europe, the US and Russia. In 2007 he flew on the Space Shuttle and then, in 2010 to 2011 and 2017, he flew again to the International Space Station with the Russian Soyuz. He retired in 2018 from the astronaut corps launching a career as an international public speaker. Chicago-born photographer Roland Miller(born 1958) taught photography at Brevard Community College in Cocoa, Florida, for 14 years, where he visited many nearby NASA launch sites. He is the author of the acclaimed book Abandoned in Place: Preserving America's Space History, documenting deactivated and repurposed space launch and test facilities around the US. In 2017 he started the project Interior Space. His work is held at the Museum of Contemporary Photography, Chicago and at the NASA Art Collection in Washington, DC. While the Moon was once thought to hold the key to space exploration, in recent decades, the U.S. has largely turned its sights toward Mars and other celestial bodies instead. In The Value of the Moon, lunar scientist Paul Spudis argues that the U.S. can and should return to the moon in order to remain a world leader in space utilization and development and a participant in and beneficiary of a new lunar economy. Spudis explores three reasons for returning to the Moon: it is close, it is interesting, and it is useful. The proximity of the Moon not only allows for frequent launches, but also control of any machinery we place there. It is interesting because recorded

deep on its surface and in its craters is the preserved history of the moon, the sun, and indeed the entire galaxy. And finally, the moon is useful because it is rich with materials and energy. The moon, Spudis argues, is a logical base for further space exploration and even a possible future home for us all. Throughout his work, Spudis incorporates details about man's fascination with the moon and its place in our shared history. He also explores its religious, cultural, and scientific resonance and assesses its role in the future of spaceflight and our national security and prosperity. An exploration of the changing conceptions of the iconic Space Shuttle and a call for a new vision of spaceflight The thirty years of Space Shuttle flights saw contrary changes in American visions of space. Valerie Neal, who has spent much of her career examining the Space Shuttle program, uses this iconic vehicle to question over four decades' worth of thinking about, and struggling with, the meaning of human spaceflight. She examines the ideas, images, and icons that emerged as NASA, Congress, journalists, and others sought to communicate rationales for, or critiques of, the Space Shuttle missions. At times concurrently, the Space Shuttle was billed as delivery truck and orbiting science lab, near-Earth station and space explorer, costly disaster and pinnacle of engineering success. The book's multidisciplinary approach reveals these competing depictions to examine the meaning of the spaceflight enterprise. Given the end of the Space Shuttle flights in 2011, Neal makes an appeal to reframe spaceflight once again to propel humanity forward. A #1 New York Times bestseller “This little mouse may well inspire some big dreams.” —Kirkus Reviews “In this picture book based on the space shuttle Endeavor…Meteor is one of the smallest mice, but the most hardworking…the values of being small, useful, solving problems, and working hard—as opposed to being big and strong—will inspire young readers.” —School Library Journal “Inspired by this real-life mouse, Kelly’s first children’s book tells the story of Meteor, a lightly anthropomorphized rodent who turns his tininess into an advantage when an important key gets stuck in a crack between two monitors…textured images and vivid portraits that make it absolutely clear that space travel is a larger-than-life adventure.” —Publishers Weekly A heartwarming picture book tale of the power of the small, from bestselling author and retired NASA astronaut Commander Mark Kelly. Astronaut Mark Kelly flew with “mice-tronauts” on his first spaceflight aboard space shuttle Endeavour in 2001. Mousetronaut tells the story of a small mouse that wants nothing more than to travel to outer space. The little mouse works as hard as the bigger mice to show readiness for the

mission . . . and is chosen for the flight! While in space, the astronauts are busy with their mission when disaster strikes—and only the smallest member of the crew can save the day. With lively illustrations by award-winning artist C. F. Payne, Mousetronaut is a charming tale of perseverance, courage, and the importance of the small! "This book explores the many aspects and outcomes of NASA's research in life sciences, a little-understood endeavor that has often been overlooked in histories of the space agency"-- "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. A rich visual history of real and fictional space stations, illustrating pop culture's influence on the development of actual space stations and vice versa Space stations represent both the summit of space technology and, possibly, the future of humanity beyond Earth. Space Stations: The Art, Science, and Reality of Working in Space takes the reader deep into the heart of past, present, and future space stations, both real ones and those dreamed up in popular culture. This lavishly illustrated book explains the development of space stations from the earliest fictional visions through historical and current programs--including Skylab, Mir, and the International Space Station--and on to the dawning possibilities of large-scale space colonization. Engrossing narrative and striking images explore not only the spacecraft themselves but also how humans experience life aboard them, addressing everything from the development of efficient meal preparation methods to experiments in space-based botany. The book examines cutting-edge developments in government and commercial space stations, including NASA's Deep Space Habitats, the Russian Orbital Technologies Commercial Space Station, and China's Tiangong program. Throughout, Space Stations also charts the fascinating depiction of space stations in popular culture,

whether in the form of children's toys, comic-book spacecraft, settings in science-fiction novels, or the backdrop to TV series and Hollywood movies. Space Stations is a beautiful and captivating history of the idea and the reality of the space station from the nineteenth century to the present day. 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. Join Cogz the Robot Dog and discover all about how space machines work, in this bright and fun STEM title. Cogz and his mice sidekicks, Nutty and Bolt, guide the reader through the workings of a rocket, looking closely at all the different parts and discovering information about real space missions and the spacecraft involved, including the Mars Rover and Apollo missions. Covering key STEM themes of engineering, physics, and inventions, and with a fun quiz to test young readers' knowledge, this book will get kids engaged and hands-on with learning. Perfect for vehicle-mad pre-schoolers, the Clever Cogz series lets young readers discover different vehicles, from space rockets to racing cars. Bite-sized text and colorful, informative illustrations introduce the transport topics in a simple, engaging way for young readers with a passion for machines. Book & DVD. From the Space Shuttle, to Soyuz, to Spaceship One, riding the explosion at the bottom of a rocket has historically been the only path to space. Is there another way? "Floating to Space" in an overview of the new technology of space-bound

airships. What, the Goodyear blimp goes to Mars? Yes! The technology called ATO, "Airship to Orbit" is being developed right now. Hypersonic airships and cities floating at the edge of space are all part of this seemingly impossible idea. Beyond describing the concept, this book shows the amazing adventure of those who are building these giant craft and throwing them into the sky. Not just a fantasy, this book shows photographs and details from the nearly one hundred development flights conducted so far. . . Included are descriptions of the environment where these craft fly to the edge of space. New findings such as life twenty miles up and mile high plasma volcanoes are introduced for the first time outside of scientific journals. This book shows you how ATO is to be accomplished from a project and economic prospective. It also details the progress so far and lays out a blueprint of what is to come. Includes a DVD of remarkable footage taken during the many test flights of JP Aerospace's unique experiments floating to space. From the marvels of the solar system, to the origins of Earth, and the mysteries of dark matter: discover all these and so much more, in this definitive children's guide to space. Beautifully realised, specially commissioned artworks and images from the most powerful space telescopes reveal extraordinary vistas of other planets, distant stars, and spiralling galaxies. Meanwhile, complex ideas are made simple by clear, easy-to-understand diagrams, fact-packed feature boxes, and ingenious infographics. Are your ready to step into the unknown? Get ready to discover the power of gravity; explore the many moons of Jupiter and Saturn; and behold the fearsome majesty of black holes. It's the ultimate visitor's guide to our Universe! A fantastic book for children aged 8+. ABOUT THE SERIES In order to create reference books deserving of the title 'Ultimate', we have brought together world-class children's authors, expert consultants, sought-after illustrators, and exceptional international photographers. Every title is meticulously researched, and presents information with clarity, passion, and intelligence. In Incredible Stories from Space, veteran space journalist Nancy Atkinson shares compelling insights from over 35 NASA scientists and engineers, taking readers behind the scenes of the unmanned missions that are transforming our understanding of the solar system and beyond. Weaving together one-on-one interviews along with the extraordinary sagas of the spacecraft themselves, this book chronicles the struggles and triumphs of nine current space missions and captures the true spirit of exploration and discovery. The Aspiring Astronaut’s Guide to Getting Lost in Outer Space “Kellie is probably one of the best ambassadors for spaceflight in the 21st century that

the industry could have." —Lucy Hawking, author of George's Secret Key to the Universe and host of Audible's Lucy in the Sky. #1 New Release in Science & Math, Essays & Commentary and Astronautics & Space Flight Follow aerospace science professional Kellie Gerardi's non-traditional path in the space industry as she guides and encourages anyone who has ever dreamed about stars, the solar system, and the galaxies in space. Ever wondered what it's like to work in outer space? In this candid science memoir and career guide, Gerardi offers an inside look into the industry beginning to eclipse Silicon Valley. Whether you have a space science degree or are looking to learn about stars, Not Necessarily Rocket Science proves there's room for anyone who is passionate about exploration. What it's like to be a woman in space. With a space background and a mission to democratize access to space, this female astronaut candidate offers a front row seat to the final frontier. From her adventures training for Mars to testing spacesuits in microgravity, this unique handbook provides inspiration and guidance for aspiring astronauts everywhere. Look inside for answers to questions like: • Will there be beer on Mars? • Why do I need to do one-handed pushups in microgravity? • How can I possibly lose a fortune in outer space? If you're looking for women in science gifts, astronomy books for adults, or NASA stories—or enjoyed, the Galaxy Girls book, or Letters from an Astrophysicist by Neil deGrasse Tyson—then you'll love Not Necessarily Rocket Science. This alphabetical installment of the Baby University series is the perfect introduction for even the youngest astronomers! The ABCs of Space is a colorfully simple introduction for babies--and grownups--to a new astronomical concept for every letter of the alphabet. Written by an expert, each page in this mathematical primer features multiple levels of text so the book grows along with your little mathematician. Also in the Baby University Series: ABCs of Science ABCs of Physics Astrophysics for Babies Baby University: It only takes a small spark to ignite a child's mind. A riveting history of the epic orbital flight that put America back into the space race. If the United States couldn't catch up to the Soviets in space, how could it compete with them on Earth? That was the question facing John F. Kennedy at the height of the Cold War—a perilous time when the Soviet Union built the wall in Berlin, tested nuclear bombs more destructive than any in history, and beat the United States to every major milestone in space. The race to the heavens seemed a race for survival—and America was losing. On February 20, 1962, when John Glenn blasted into orbit aboard Friendship 7, his mission was not only to circle the planet; it was to calm the fears of the free

world and renew America’s sense of self-belief. Mercury Rising re-creates the tension and excitement of a flight that shifted the momentum of the space race and put the United States on the path to the moon. Drawing on new archival sources, personal interviews, and previously unpublished notes by Glenn himself, Mercury Rising reveals how the astronaut’s heroics lifted the nation’s hopes in what Kennedy called the "hour of maximum danger." "Using interviews, NASA oral histories, and recently declassified material, [this book] reveals the dramatic untold story of the first space shuttle and the dedicated people who brought the United States into the next stage of space exploration"--Dust jacket flap. From asteroids to zodiac constellations--500 amazing space facts for kids ages 8 to 12 Do you know a kid who wants to know all about space? This intergalactic entry into space books for kids is bursting with 500 out-of-this-world facts for hours of space exploration from the comfort of Earth. Alongside full-color pictures on every page, kids can adventure through stars, planets, and space technology with this book of astronomy for kids. Go beyond other space books for kids with trivia such as: Mars is often referred to as the red planet because its surface is red due to iron oxide, or rust. The average lifespan of a star is 10 billion years. All the other planets in our solar system could fit between Earth and its moon. Kids will light up as they discover ice giants and famous astronomers with this standout among space books for kids. Discusses activities astronauts do while they're in space. Rare views of the beginnings of a historic space program After the excitement of the first Moon landing, the U.S. space program took an ambitious new direction closer to home: NASA's Space Shuttle program promised frequent access to Earth orbit for medical and scientific breakthroughs; deploying, repairing and maintaining satellites; and assembling a space station. Picturing the Space Shuttle is the first photographic history of the program's early years as the world's first space plane debuted. Showcasing over 450 unpublished and lesser-known images, this book traces the growth of the Space Shuttle from 1965 to 1982, from initial concept through its first four space flights. The photographs offer windows into designing the first reusable space vehicle as well as the construction and testing of the prototype shuttle Enterprise. They also show the factory assembly and delivery of the Space Shuttle Columbia, preparations at the major NASA field centers, and astronaut selection and training. Finally, the book devotes a chapter to each of the first four orbital missions, STS-1 through STS-4, providing an abundance of seldom seen photos for each flight. Mostly selected from J. L. Pickering's personal

archive, the world's largest private collection of U.S. human space flight images, the high-quality photographs in this book are paired with veteran journalist John Bisney's detailed descriptions and historical background information. The book also includes images of NASA and Shuttle contractor booklets, manuals, access badges, and press kits, as well as a foreword by Robert Crippen, the pilot of the first Space Shuttle flight. Picturing the Space Shuttle recreates the excitement of an era in which the possibilities of space exploration seemed limitless. In September 1969, several months after the Apollo 11 lunar landing, President Richard M. Nixon established the Space Task Force to chart NASA's path for the decades to come. This imaginative vision was shattered less than six months later when, on January 13, 1970, NASA Administrator Dr. Thomas Paine announced that, owing to funding cuts, only the reusable Space Shuttle could be afforded -- there would be no space station, no return to the Moon, and no missions to Mars. This is a story never before told about the missions and technologies that NASA had begun to plan but never fully realized. The book is a companion to the author's previous two works on the Space Shuttle. Whereas the first two books showed how the Space Shuttle flew in space and what the program accomplished, this book explains what more the Space Shuttle could have achieved and how the space transportation system could have further matured if circumstances had been otherwise. A final chapter also discusses how some of these plans might be resurrected in future programs. With a focus on China, the United States, and India, this book examines the economic ambitions of the second space race. The authors argue that space ambitions are informed by a combination of factors, including available resources, capability, elite preferences, and talent pool. The authors demonstrate how these influences affect the development of national space programs as well as policy and law. This work introduces the important emerging space powers of the world. Brian Harvey describes the origins of the Japanese space program, from rocket designs based on WW II German U-boats to tiny solid fuel 'pencil' rockets, which led to the launch of the first Japanese satellite in 1970. The next two chapters relate how Japan expanded its space program, developing small satellites into astronomical observatories and sending missions to the Moon, Mars, comet Halley, and asteroids. Chapter 4 describes how India's Vikram Sarabhai developed a sounding rocket program in the 1960s. The following chapter describes the expansion of the Indian space program. Chapter 6 relates how the Indian space program is looking ahead to the success of the moon probe Chandrayan, due to launch in 2008, and its

first manned launching in 2014. Chapters 7, 8, and 9 demonstrate how, in Iran, communications and remote sensing drive space technology. Chapter 10 outlines Brazil's road to space, begun in the mid-1960's with the launch of the Sonda sounding rockets. The following two chapters describe Brazil's satellites and space launch systems and plans for the future. Chapters 13 and 14 study Israel's space industry. The next chapters look at the burgeoning space programs of North and South Korea. The book ends by contrasting and comparing all the space programs and speculating how they may evolve in the future. An appendix lists all launches and launch attempts to date of the emerging space powers. One of the most important developments of the twentieth century has been the movement of humanity into space with machines and people. The underpinnings of that movement—why it took the shape it did; which individuals and organizations were involved; what factors drove a particular choice of scientific objectives and technologies to be used; and the political, economic, managerial, and international contexts in which the events of the space age unfolded—are all important ingredients of this epoch transition from an Earthbound to a spacefaring people. This desire to understand the development of spaceflight in the United States sparked this documentary history series. The extension of human activity into outer space has been accompanied by a high degree of self-awareness of its historical significance. Few large-scale activities have been as extensively chronicled so closely to the time they actually occurred. Many of those who were directly involved were quite conscious that they were making history, and they kept full records of their activities. Because most of the activity in outer space was carried out under government sponsorship, it was accompanied by the documentary record required of public institutions, and there has been a spate of official and privately written histories of most major aspects of space achievement to date. When top leaders considered what course of action to pursue in space, their deliberations and decisions often were carefully put on the record. There is, accordingly, no lack of material for those who aspire to understand the origins and evolution of U.S. space policies and programs. This reality forms the rationale for this series. Precisely because there is so much historical material available on space matters, the National Aeronautics and Space Administration (NASA) decided in 1988 that it would be extremely useful to have a selective collection of many of the seminal documents related to the evolution of the U.S. civilian space program that was easily available to scholars and the interested public. While recognizing that much space activity has taken place under the sponsorship of the

Department of Defense and other national security organizations, within the U.S. private sector, and in other countries around the world, NASA felt that there would be lasting value in a collection of documentary material primarily focused on the evolution of the U.S. government's civil space program, most of which has been carried out since 1958 under the agency's auspices. As a result, the NASA History Office contracted with the Space Policy Institute of George Washington University's Elliott School of International Affairs to prepare such a collection. This is the fourth volume in the documentary history series; two additional ones detailing programmatic developments with respect to space science and human spaceflight will follow. The documents selected for inclusion in this volume are presented in four major chapters, each covering a particular aspect of access to space and the manner in which it has developed over time. These chapters focus on the evolution toward the giant Saturn V rocket, the development of the Space Shuttle, space transportation commercialization, and future space transportation possibilities. Volume I in this series covered the antecedents to the U.S. space program, as well as the origins and evolution of U.S. space policy and of NASA as an institution. Volume II addressed the relations between the U.S. civil space program and the space activities of other countries, between the U.S. civil program and national security space and military efforts, and between NASA and industry and academic institutions. Volume III provided documents on satellite communications, remote sensing, and the economic of space applications. As mentioned above, the remaining two volumes of the series will cover space science and human spaceflight.
The Space Shuttle has been the dominant machine in the U.S. space program for thirty years and has generated a great deal of interest among space enthusiasts and engineers. This book enables readers to understand its technical systems in greater depth than they have been able to do so before. The author describes the structures and systems of the Space Shuttle, and then follows a typical mission, explaining how the structures and systems were used in the launch, orbital operations and the return to Earth. Details of how anomalous events were dealt with on individual missions are also provided, as are the recollections of those who built and flew the Shuttle. Many photographs and technical drawings illustrate how the Space Shuttle functions, avoiding the use of complicated technical jargon. The book is divided into two sections: Part 1 describes each subsystem in a technical style, supported by diagrams, technical drawings, and photographs to enable a better understanding of the concepts. Part 2 examines different flight

phases, from liftoff to landing. Technical material has been obtained from NASA as well as from other forums and specialists. Author Davide Sivolella is an aerospace engineer with a life-long interest in space and is ideally qualified to interpret technical manuals for a wider audience. This book provides comprehensive coverage of the topic including the evolution of given subsystems, reviewing the different configurations, and focusing on the solutions implemented. Presents a series of 250 significant events in the history of astronomy and space exploration, from the original formation of the galaxies, to the space mission to the planet Mars, to speculation about the end of the universe. This book tells the story of the Space Shuttle in its many different roles as orbital launch platform, orbital workshop, and science and technology laboratory. It focuses on the technology designed and developed to support the missions of the Space Shuttle program. Each mission is examined, from both the technical and managerial viewpoints. Although outwardly identical, the capabilities of the orbiters in the late years of the program were quite different from those in 1981. Sivolella traces the various improvements and modifications made to the shuttle over the years as part of each mission story. Technically accurate but with a pleasing narrative style and simple explanations of complex engineering concepts, the book provides details of many lesser known concepts, some developed but never flown, and commemorates the ingenuity of NASA and its partners in making each Space Shuttle mission push the boundaries of what we can accomplish in space.Using press kits, original papers, newspaper and magazine articles, memoirs and interviews, this book provides the most up-to-date and comprehensive account available of the shuttle’s many missions and will refocus interest on a remarkable flying machine and space program that is often pushed to the background. This book provides a comprehensive introduction to the physical phenomena that result from the interaction of the sun and the planets - often termed space weather. Physics of the Space Environment explores the basic processes in the Sun, in the interplanetary medium, in the near-Earth space, and down into the atmosphere. The first part of the book summarizes fundamental elements of transport theory relevant for the atmosphere, ionosphere and the magnetosphere. This theory is then applied to physical phenomena in the space environment. The fundamental physical processes are emphasized throughout, and basic concepts and methods are derived from first principles. This book is unique in its balanced treatment of space plasma and aeronomical phenomena. Students and researchers with a basic mathematics and physics background will find this

book invaluable in the study of phenomena in the space environment. A brilliant and breathtakingly vivid tour of the universe, describing the physics of the dangerous, the deadly, and the scary in the cosmos. So you've fallen in love with space and now you want to see it for yourself, huh? You want to witness the birth of a star, or visit the black hole at the center of our galaxy? You want to know if there are aliens out there, or how to travel through a wormhole? You want the wonders of the universe revealed before your very eyes? Well stop, because all that will probably kill you. From mundane comets in our solar backyard to exotic remnants of the Big Bang, from dying stars to young galaxies, the universe may be beautiful, but it's treacherous. Through metaphors and straightforward language, it breathes life into astrophysics, unveiling how particles and forces and fields interplay to create the drama in the heavens above us. With the recent influx of spaceflight and satellite launches, the region of outer space has become saturated with vital technology used for communication and surveillance and the functioning of business and government. But what would happen if these capabilities were disrupted or even destroyed? How would we react if faced with a full-scale blackout of satellite communications? What can and has happened following the destruction of a satellite? In the short term, the aftermath would send thousands of fragments orbiting Earth as space debris. In the longer term, the ramifications of such an event on Earth and in space would be alarming, to say the least. This book takes a look at such crippling scenarios and how countries around the world might respond in their wake. It describes the aggressive actions that nations could take and the technologies that could be leveraged to gain power and control over assets, as well as to initiate war in the theater of outer space. The ways that a country's vital capabilities could be disarmed in such a setting are investigated. In addition, the book discusses our past and present political climate, including which countries currently have these abilities and who the aggressive players already are. Finally, it addresses promising research and space technology that could be used to protect us from those interested in destroying the world's vital systems. This book analyses the decisions of nations to develop indigenous space programs in order to become a leading world power.

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