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Go on a Mission to Space with Chickasaw astronaut John Herrington, as he shares his flight on the space shuttle Endeavour and his thirteen-day mission to the international Space Station. Learn what it takes to train for space flight, see the tasks he completed in space, and join him on his spacewalk 220 miles above the earth. Committee Serial No. 11.

Investigates necessity of extending NASA program studying effects of space environment upon man's coordination, heart and nervous system. In 2008, Europe's first space laboratory was launched to the International Space Station. Ten years later, the Columbus laboratory is still circling 400 km above our heads at 28,800 km/h, providing scientists a place to run out-of-this-world experiments on everything from cold plasma technology that will destroy unwanted odours to enzymes that may slow the ageing process. To celebrate a decade of European science and technology in space this stunning book recounts the story of the Columbus laboratory from vision to mission, revealing everything from the daily operations that keep it humming, to the cutting-edge science that takes place inside. Richly illustrated with graphics and statistics of life and research in space as well as full-colour photos, Columbus in Space offers a never-seen-before

glimpse into the laboratory at the forefront of humanity's exploration of our Universe -- Europe's space in space. 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. Created by NASA for high school students interested in space science, this collection of worked problems covers a broad range of subjects, including mathematical aspects of NASA missions, computation and measurement, algebra, geometry, probability and statistics, exponential and logarithmic functions, trigonometry, matrix algebra, conic sections, and calculus. In addition to enhancing mathematical knowledge and skills, these problems promote an appreciation of aerospace technology and offer valuable insights into the practical uses of secondary school mathematics by professional scientists and engineers. Geared toward high school students and teachers, this volume also serves as a fine review for undergraduate science and engineering majors. Numerous figures illuminate the text, and an appendix explores the advanced topic of gravitational forces and the conic section trajectories. From the first manned space flight of Mercury I to Neil Armstrong's first steps on the moon to recent shuttle launches, McCall has done more to capture America's presence in space than any other artist. Now comes a gorgeous retrospective of the work of America's premier space artist--75 full-color paintings plus an introduction by Ray Bradbury. Readers find out what it's like for astronauts to eat, sleep, and work on a manned space flight in this adventurous nonfiction reader. Children will discover what it's like to be weightless in zero gravity, how Mission control helps keep astronauts safe, and what astronauts do during their free time through vivid photographs, interesting, informative text, and stimulating facts. 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.

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! 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. 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. This volume, like the others, not only focuses upon the individual missions within the decade but also upon key challenges facing human space exploration at specific points within those years - from the problems of simply breathing and eating in space to the challenges of venturing outside in a pressurized spacesuit, the development of newer and better space toilets, and the difficulties of locomotion on the Moon. The Eighties was a time when traveling into space far more commonplace. Examining in detail the American and Soviet fronts, Ben Evans gives a

comprehensive analysis of the varying fortunes of the U.S. space shuttle in the Eighties, including its early test flights and commercial flights, its problems, the 51L tragedy and its aftermath, and the resumption of operations with STS-26. The U.S. story ends with STS-37 in April 1991. In the Soviet sphere, two pivotal space station efforts - Salyut 7 and its successor, Mir - are considered, showing how they were alike and different. The story about a young girl that builds spaceships, flies to Mars, saves the Earth from a very large asteroid that she captures, puts in orbit above the Earth, builds a space elevator above her home in Texas, and also builds three space elevators on the moon and one on the planet Mars has lots of adventures while traveling around the solar system. She is befriended by a humpback whale and saves lots of whales. Lupe Impala, El Chavo Flapjack, and Elirio Malaria love working with cars. You name it, they can fix it. But the team's favorite cars of all are lowriders—cars that hip and hop, dip and drop, go low and slow, bajito y suavequito. The stars align when a contest for the best car around offers a prize of a trunkful of cash—just what the team needs to open their own shop! ¡Ay chihuahua! What will it take to transform a junker into the best car in the universe? Striking, unparalleled art from debut illustrator Raul the Third recalls ballpoint-pen-and-Sharpie desk-drawn doodles, while the story is sketched with Spanish, inked with science facts, and colored with true friendship. With a glossary at the back to provide definitions for Spanish and science terms, this delightful book will educate and entertain in equal measure. An electric new collection, built from the rubble and strangeness of daily life. Blast off with this new edition in the first book in the best selling Professor Astro Cat series! Featuring updated details about how rockets work, recent missions to Mars, space junk, and black holes. “Conducted by a cat in a retro-futuristic space suit, this tour of the solar system and beyond earns style points for both its illustrations and its selection of “Factoroids.” -Kirkus Reviews "Cute characters (such as the titular Professor Astro Cat and his assistant Astro Mouse) give a humorous, conversational tone to this nonfiction book's information about space, our solar system, and changing space exploration technology. Like the text, the book's browsable layout encourages readers to keep exploring. Overall, a great book to nurture interest in and wonder at the infinite possibilities of space." -The Horn Book "Both modern in its scientific spirit and with a sensibility modeled after the delightful mid-century children's books from the Golden Age of space exploration, it tickles young

readers - as well as their space-enchanted parents - into precisely that palpable zest to make contact with the cosmos. -Brain Pickings Professor Astro Cat is the smartest cat in the alley. He's got a degree in just about every discipline under the sun! Speaking of the sun, he happens to be specialist on that too, and Professor Astro Cat's Frontiers of Space will tell you everything that there could be to know about our star, our planet, our solar system, our galaxy, our universe, and many more new insights into the ever-developing science of space and the outer reaches of the universe! The professor's made sure of that; he's a fastidious little feline! Professor Astro Cat's Frontiers of Space also explores topics such as gravity, extraterrestrial life, time, and many other fascinating subjects that will take you and your children on a journey to the very frontiers of space! Astra's family are all snoring in their sleeping pods, but Astra is WIDE AWAKE. With her friend, Pilbeam, she goes off exploring and soon finds out the ship is in deep trouble. It's been knocked off course and invaded by a gang of Poglites, an alien salvage crew searching for spoonage. But even the Poglites need Astra's help when they discover something far more sinister lurking in the canteen. Sure, they're cakes; but no one would describe them as sweet. Another splendid adventure from dynamic duo, Philip Reeve and Sarah McIntyre. National Geographic Explorer and TED Prize-winner Dr. Sarah Parcak welcomes you to the exciting new world of space archaeology, a growing field that is sparking extraordinary discoveries from ancient civilizations across the globe. In Archaeology from Space, Sarah Parcak shows the evolution, major discoveries, and future potential of the young field of satellite archaeology. From surprise advancements after the declassification of spy photography, to a new map of the mythical Egyptian city of Tanis, she shares her field's biggest discoveries, revealing why space archaeology is not only exciting, but urgently essential to the preservation of the world's ancient treasures. Parcak has worked in twelve countries and four continents, using multispectral and high-resolution satellite imagery to identify thousands of previously unknown settlements, roads, fortresses, palaces, tombs, and even potential pyramids. From there, her stories take us back in time and across borders, into the day-to-day lives of ancient humans whose traits and genes we share. And she shows us that if we heed the lessons of the past, we can shape a vibrant future. Includes Illustrations 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, firsthand accounts of spaceflight, and so much more. The Committee on Space Biology and Medicine reviewed and updated prior reports to suggest strategies for research in space biology and medicine based on information gathered since 1987. The report provides a review of biology and medicine that can be studied in the space environment, discusses the fundamental research issues and questions with space biology and medicine disciplines, identifies the most promising experimental challenges in those disciplines, evaluates the potential for space research to provide advances within each discipline, and prioritizes research topics to the extent feasible. Disciplines include sciences which study plant, animal, and human systems at the molecular, cellular, system, and whole-organism levels. The section about physiology, gravity, and space includes cell biology; developmental biology; plants, gravity, and space; sensorimotor integration; bone physiology; skeletal muscle; cardiovascular and pulmonary systems; endocrinology; and immunology. The section about additional space

environment issues includes radiation hazards and behavioral issues. The final section examines setting priorities in research and programmatic and policy issues. 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 you 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. **NATIONAL BEST SELLER** A stunning, personal memoir from the astronaut and modern-day hero who spent a record-breaking year aboard the International Space Station—a message of hope for the future that will inspire for generations to come. The veteran of four spaceflights and the American record holder for consecutive days spent in space, Scott Kelly has experienced things very few have. Now, he takes us inside a sphere utterly hostile to human life. He describes navigating the extreme challenge of long-term spaceflight, both life-threatening and mundane: the devastating effects on the body; the isolation from everyone he loves and the comforts of Earth; the catastrophic risks of colliding with space junk; and the still more haunting threat of being unable to help should tragedy strike at home—an agonizing situation Kelly faced when, on a previous mission, his twin brother's wife, American Congresswoman Gabrielle Giffords, was shot while he still had two months in space. Kelly's humanity, compassion, humor, and determination resonate throughout, as he recalls his rough-and-tumble New Jersey childhood and the youthful inspiration that sparked his astounding career, and as he makes clear his belief that Mars will be the next, ultimately challenging, step in spaceflight. In *Endurance*, we see the triumph of the human imagination, the strength of the human will, and the infinite wonder of the galaxy. 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 perspective. 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. Deep Space Craft opens the door to interplanetary flight. It looks at this world from the vantage point of real operations on a specific mission, and follows a natural trail from the day-to-day working of this particular spacecraft, through the functioning of all spacecraft to the collaboration of the various disciplines to produce the results for which a spacecraft is designed. These results are of course mostly of a scientific nature, although a small number of interplanetary missions are also flown primarily to test and prove new engineering techniques. The author shows how, in order to make sense of all the scientific data coming back to Earth, the need for experiments and instrumentation arises, and follows the design and construction of the instruments through to their placement and testing on a spacecraft prior to launch. Examples are given of the interaction between an instrument's science team and the mission's flight team to plan and specify observations, gather and analyze data in flight, and finally present the results and discoveries to the scientific community. This highly focused, insider's guide to interplanetary space exploration uses many examples of previous and current endeavors. It will enable the reader to research almost any topic related to spacecraft and to seek the latest scientific findings, the newest emerging technologies, or the current status of a favorite flight. In

order to provide easy paths from the general to the specific, the text constantly refers to the Appendices. Within the main text, the intent is general familiarization and categorization of spacecraft and instruments at a high level, to provide a mental framework to place in context and understand any spacecraft and any instrument encountered in the reader's experience. Appendix A gives illustrated descriptions of many interplanetary spacecraft, some earth-orbiters and ground facilities to reinforce the classification framework. Appendix B contains illustrated detailed descriptions of a dozen scientific instruments, including some ground-breaking engineering appliances that have either already been in operation or are poised for flight. Each instrument's range of sensitivity in wavelengths of light, etc, and its physical principle(s) of operation is described. Appendix C has a few annotated illustrations to clarify the nomenclature of regions and structures in the solar system and the planets' ring systems, and places the solar system in context with the local interstellar environment. Advances during 1966 in astronomy, exobiology, ionospheric sciences, radio and solar physics, and planetary atmospheres and planetology. A little-known yet critical part of NASA history Life in Space 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. Maura Mackowski details NASA's work in this field from spectacular promises made during the Reagan era to the major new directions set by George W. Bush's Vision for Space Exploration in the early twenty-first century. At the first flight of NASA's space shuttle in 1981, hopes ran high for the shuttle program to achieve its potential of regularly transporting humans, cargo, and scientific experiments between Earth and the International Space Station. Mackowski describes different programs, projects, and policies initiated across NASA centers and headquarters in the following decades to advance research into human safety and habitation, plant and animal biology, and commercial biomaterials. Mackowski illuminates these ventures in fascinating detail by drawing on rare archival sources, oral histories, interviews, and site visits. While highlighting significant achievements and innovations such as space radiation research and the Neurolab Spacelab Mission, Mackowski reveals frustrations—lost opportunities, stagnation, and dead ends—stemming from frequent changes in presidential administrations and policies. For today's dreams of lunar outposts or long-term spaceflight to become reality,

Mackowski argues, a robust program in space life sciences is essential, and the history in this book offers lessons to help prevent leaving more expectations unfulfilled. 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. 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. The Cat in the Hat takes readers on an out of this world reading adventure through outer space! The Cat in the Hat's Learning Library is a nonfiction picture book series that introduces beginning readers ages 5-8 to important basic concepts. Learn about the solar system, planets, the constellations, and astronauts, and explore the wonders of space with the help of everyone's favorite Cat in the Hat! Perfect for aspiring astronauts, or any kid who loves learning and science. The universe is a mysterious place. We are only just learning what happens in space. Featuring beloved characters from Dr.

Seuss's *The Cat in the Hat*, the Learning Library are unjacketed hardcover picture books that explore a range of nonfiction topics about the world we live in and include an index, glossary, and suggestions for further reading. This book is as a detailed, but highly readable and balanced account of the history of animal space flights carried out by all nations, but principally the United States and the Soviet Union. It explores the ways in which animal high-altitude and space flight research impacted on space flight biomedicine and technology, and how the results - both successful and disappointing - allowed human beings to then undertake that same hazardous journey with far greater understanding and confidence. This complete and authoritative book will undoubtedly become the ultimate authority on animal space flights. A thrilling, original novel based on Netflix's smash hit *Lost in Space*! Perfect for fans eagerly awaiting season 2, this all-new story focuses on 11-year-old Will Robinson and his closest friend and greatest protector--a mysterious Robot with a dangerous past. Thirty years in the future, Earth has become increasingly more uninhabitable, and a group of colonists--including Will, his two teenage sisters, and their parents--travels across the galaxy to establish a new home. But when the ship is attacked, the Robinsons are stranded on an alien planet where they must contend with disastrous technical issues, a hostile environment, and dangerous personalities to get off world and reach their colony. One day, while exploring a remote complex of caves with his Robot, Will discovers a strange portal that allows him to travel back to Earth--to a time before the Robinsons left on their mission. Realizing the portal could be a way for the colonists to escape the planet and finally make their way to their new home, Will and his sisters decide to investigate it, triggering a series of events that not only changes their reality, but threatens the group's very existence. With the beings who created the portal in pursuit, Will must find a way to right the wrongs of the past and save his family's future. © 2019 Legendary. All Rights Reserved. There has been considerable interest recently in microgravity physics and the effects of gravitation on crystal growth, alloy solidification, and other processes in space manufacturing. Regel' [1] has provided an extensive but not exhaustive bibliography on micro gravity physics and materials science in space, in which the major aspects are discussed along with the state of the art and future research prospects. The literature survey in [1] covered a period of about 10 years, including some publications appearing in 1983 that reflected not only theoretical and experi

mental studies completed by 1983 but also a list of experiments to be carried out in the next few years. In particular, the closing part of the survey [1] enumerated experiments planned under the Intercosmos program and by the European Space Agency (ESA) for the flight of Spacelab-I and D-I in 1985 and under the Eureka programs. Some of the space experiments planned in 1983 have now been completed, and the results have been published. It is therefore desirable to survey again research on materials science in space for the last few years and extend the literature survey begun in [1]. The literature listing on materials science in space begun in [1] is supplemented (there were 1061 citations in [1]) by recent publications (beginning with 1982). An electric new collection, built from the rubble and strangeness of daily life. 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. Space-based laboratory research in fundamental physics is an emerging research discipline that offers great discovery potential and at the same time could drive the development of technological advances which are likely to be important to scientists and technologists in many other different research fields. The articles in this review volume have been contributed by participants of the international workshop "From Quantum to Cosmos : Fundamental Physics Research in Space" held at the Airlie Center in Warrenton, Virginia, USA, on May 21-24, 2006. This unique volume discusses the advances in our understanding of fundamental physics that are anticipated in the near future, and evaluates the discovery potential of a number of recently proposed space-based

gravitational experiments. Specific research areas covered include various tests of general relativity and alternative theories, search of physics beyond the Standard Model, investigations of possible violations of the equivalence principle, search for new hypothetical long- and short-range forces, variations of fundamental constants, tests of Lorentz invariance and attempts at unification of the fundamental interactions. The book also encompasses experiments aimed at the discovery of novel phenomena, including dark matter candidates, and studies of dark energy.

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