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Space Patrol Children's Encyclopedia of Space The Space Book Revised and Updated Concepts of Space Commander Toad in Space Emerging Space Powers Space Flight Space Stations America's Future in Space Exploring Space Space Case Privately Owned Public Space Small Space Style A Budgetary Analysis of NASA's New Vision for Space Exploration NASA's First Space Shuttle Astronaut Selection Entering Space Cakes in Space The Production of Space Join the Team! (Space Jam: A New Legacy) To Orbit and Back Again Space Space Puzzles Spaceflight in the Shuttle Era and Beyond R. E. A. L. Science, Earth and Space (level One) The Culture of Time and Space, 1880-1918 Space Discovery Simplifying Solution Space Space Security and Legal Aspects of Active Debris Removal Human Dimension and Interior Space The Other Space Race The Untold Stories of the Space Shuttle Program Space 2.0 Centers for the Commercial Development of Space Draw 50 Outer Space Space Mission Analysis and Design The Ultimate Book of Space Space Coloring Book for Kids Training the Commercial Space Traveler Control System Design Air and Space Law

Part of the best-selling Draw 50 series this step-by-step guide to sketching and rendering astronauts, planets, asteroids, comets, spaceships, space stations, and other elements related to outer space exploration is for artists of all levels. In this new installment of Lee J. Ames's beloved Draw 50 series, readers will find easy-to-follow, step-by-step lessons for outer space drawing. In each lesson, six wordless steps provide everything needed to master drawing all kinds of planets, moons, comets, and meteors, as well as astronauts, rockets, spaceships, and other aspects--both natural and manmade--related to charting the cosmos. The study of human body measurements on a comparative basis is known as anthropometrics. Its applicability to the design process is seen in the physical fit, or interface, between the human body and the various components of interior space. Human Dimension and Interior Space is the first major anthropometrically based reference book of design standards for use by all those involved with the physical planning and detailing of interiors, including interior designers, architects, furniture designers, builders, industrial designers, and students of design. The use of anthropometric data, although no substitute for good design or sound professional judgment should be viewed as one of the many tools required in the design process. This comprehensive overview of anthropometrics consists of three parts. The first part deals with the theory and application of anthropometrics and includes a special section dealing with physically disabled and elderly people. It provides the designer with the fundamentals of anthropometrics and a basic understanding of how interior design standards are established. The second part contains easy-to-read, illustrated anthropometric tables, which provide the most current data available on human body size, organized by age and percentile groupings. Also included is data relative to the range of joint motion and body sizes of children. The third part contains hundreds of dimensioned drawings, illustrating in plan and section the proper anthropometrically based relationship between user and space. The types of spaces range from residential and commercial to recreational and institutional, and all dimensions include metric conversions. In the Epilogue, the authors challenge the interior design profession, the building industry, and the furniture manufacturer to seriously explore the problem of adjustability in design. They expose the fallacy of designing to accommodate the so-called average man, who, in fact, does not exist. Using government data, including studies prepared by Dr. Howard Stoudt, Dr. Albert Damon, and Dr. Ross McFarland, formerly of the Harvard School of Public Health, and Jean Roberts of the U.S. Public Health Service, Panero and Zelnik have devised a system of interior design reference standards, easily understood through a series of charts and situation drawings. With Human Dimension and Interior Space, these standards are now accessible to all designers of interior environments. The Other Space Race is a unique look at the early U.S. space program and how it both shaped and was shaped by politics during the Cold War. Eisenhower's "New Look" expanded the role of the Air Force in national security, and ultimately allowed ambitious aerospace

projects, namely the "Dyna-Soar," a bomber equipped with nuclear weapons that would operate in space. Eisenhower's space policy was purely practical, creating a strong deterrent against the use of nuclear arms against the United States. With the Soviet launch of Sputnik in 1957, the political climate changed, and space travel became part of the United States' national discourse. Sambaluk explores what followed, including the scuttling of the "Dyna-Soar" program and the transition from Eisenhower's space policy to John Kennedy's. This well-argued, well-researched book gives much needed perspective on the Cold War's influence on space travel and its relation to the formation of public policy.

Space Books for Kids 5-7 Space Coloring Book for Kids is packed full of fun, cute, and magical colouring pages, suitable for kids ages 4 and up. Out of this world designs, space planets, and alien space ships make this varied book perfect for boys and girls this holiday season! Full features include: TRAVEL SIZE ready at 8.5 x 8.5 square bound paperback format for easy transport and space activity 30 FUN and CUTE DESIGNS on single-sided pages only to minimize bleed-through WIDE VARIETY of pages to color for kids who really love outer space GREAT ADDITION to their outer space toys, space puzzles, science books for kids, and books about space for kids

Inside they'll discover cute and playful hand-drawn pages featuring fantastic planets, astronauts, aliens, space shuttles and spaceships, stars and galaxies, solar systems, and more! Children's Coloring books are the perfect gift idea for birthdays, stocking stuffers, Secret Santa, and of course, Christmas! Don't wait, pick up your copy today!

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. Space exploration has fascinated us since the launch of the first primitive rockets more than three thousand years ago, and it continues to fascinate us today. The data gathered from such exploration have been hugely instrumental in furthering our understanding of our universe and our world.

In Space Flight: History, Technology, and Operations, Lance K. Erickson offers a comprehensive book at the history of space exploration, the technology that makes it possible, and the continued efforts that promise to carry us into the future. *Space Flight* goes through the history of space exploration---from the earliest suborbital and orbital missions to today's deep-space probes---to provide a close look at past and present projects, then turns its attention to programs being planned today and the significance of future exploration. Focusing on research data gleaned from these exploration programs, the book's historical perspective highlights the progression of our scientific understanding of both the smallest and the largest entities in our universe, from subatomic particles to distant stars, planets, and galaxies. Both the novice and the advanced student of space exploration stand to profit from the author's engaging and insightful discussion. It's a murder mystery on the moon in this humorous and suspenseful space adventure from the author of *Belly Up* and *Spy School* that *The New York Times Book Review* called "a delightful and brilliantly constructed middle grade thriller." Like his fellow lunarnauts—otherwise known as Moonies—living on Moon Base Alpha, twelve-year-old Dashiell Gibson is famous the world over for being one of the first humans to live on the moon. And he's bored out of his mind. Kids aren't allowed on the lunar surface, meaning they're trapped inside the tiny moon base with next to nothing to occupy their time—and the only other kid Dash's age spends all his time hooked into virtual reality games. Then Moon Base Alpha's top scientist turns up dead. Dash senses there's foul play afoot, but no one believes him. Everyone agrees Dr. Holtz went onto the lunar surface without his helmet properly affixed, simple as that. But Dr. Holtz was on the verge of an important new discovery, Dash finds out, and it's a secret that could change everything for the Moonies—a secret someone just might kill to keep... Blast off into space with this *Hidden Pictures* puzzle book! Featuring over 100 out-of-this-world scenes and more than 1,800 hidden objects to find in *Highlights* trademark black-and-white puzzles, *Space Puzzles* is a perfect gift for future astronauts ages 6-12. With illustrations of astronaut activities, wacky aliens, and more otherworldly adventures, kids will love puzzling and giggling their way through this galactic collection. Can you find the peanut on a planet or spy the banana in orbit? *Space Puzzles* is sure to please every space-loving child! This 144-page book is great for on-the-go travel (on Earth or outer space!), after-school fun or screen-free entertainment on rainy days. Each space-themed puzzle is carefully designed to engage and entertain children while honing their concentration skills, visual perception, critical-thinking ability and attention to detail. Finding the hidden objects gives puzzlers a confidence boost, making it great for the entire family. Unofficially they called themselves the TFNG, or the Thirty-Five New Guys. Officially, they were NASA's Group 8 astronauts, selected in

January 1978 to train for orbital missions aboard the Space Shuttle. Prior to this time only pilots or scientists trained as pilots had been assigned to fly on America's spacecraft, but with the advent of the innovative winged spacecraft the door was finally opened to non-pilots, including women and minorities. In all, 15 of those selected were categorised as Pilot Astronauts, while the other 20 would train under the new designation of Mission Specialist. Altogether, the Group 8 astronauts would be launched on a total of 103 space missions; some flying only once, while others flew into orbit as many as five times. Sadly, four of their number would perish in the Challenger tragedy in January 1986. In their latest collaborative effort, the authors bring to life the amazing story behind the selection of the first group of Space Shuttle astronauts, examining their varied backgrounds and many accomplishments in a fresh and accessible way through deep research and revealing interviews. Throughout its remarkable 30-year history as the workhorse of NASA's human spaceflight exploration, twice halted through tragedy, the Shuttle fleet performed with magnificence. So too did these 35 men and women, swept up in the dynamic thrust and ongoing development of America's Space Shuttle program. "This book on the Group 8 Astronauts, the TFNGs, is an excellent summation of the individuals first selected for the new Space Shuttle Program. It provides insight into what it took to first get the Space Shuttle flying. For any space enthusiast it is a must read." - Robert L. Crippen PLT on STS-1 "As a reader, I had many moments where long, lost memories of the triumph and tragedy of the space shuttle program were brilliantly reawakened at the turn of a page. Loved it! This is a must-have book for every space enthusiast's library." - TFNG Mission Specialist Astronaut Richard 'Mike' Mullane, author of *Riding Rockets: The Outrageous Tales of a Space Shuttle Astronaut* "Many of the anecdotes in the book brought back memories of challenges, opportunities, and a team of men and women who were committed not just to the space program, but to one another...I've gone back to it several times as a reference source." - TFNG Steve Hawley, 5-time Space Shuttle Mission Specialist Astronaut "The TFNG book is incredible and amazingly thorough! The detail in the book is awesome! It is my go-to book for any of the details I've forgotten." - TFNG Dr. Rhea Seddon, 3-time Space Shuttle Mission Specialist Astronaut. "I can't believe how detailed and complete it is!!! FANTASTIC work!!!" - TFNG Robert L. "Hoot" Gibson, 5-time Space Shuttle Pilot & Commander and former Chief of the NASA Astronaut Office

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. Flaps, pull tabs, and many other movable parts show young readers an amazing universe beyond Earth! From astronaut training and rocket launches to landing on the moon and working on the space station, this book is filled with age-appropriate information and provides a fascinating introduction to the world of space exploration.

Hari Suman Naik takes the perspective of modular systems and investigates how to enable non-expert users to innovate and design, by simplifying toolkit solution space. New production technologies like digital fabrication and modular electronics along with appropriate toolkits can offer users a significant design flexibility to innovate solutions that meet their heterogeneous and sticky needs. The author contributes towards understanding and designing toolkit solution space, first using qualitative studies to explore mechanisms for simplifying the use and structure of toolkit solution space, and then using a design study of an innovative toolkit. The findings are relevant to innovation and product managers eager to incorporate user ideas with toolkits. Historical surveys of the concept of space considers Judeo-Christian ideas about space, Newton's concept of absolute space, space from 18th century to the present. Numerous original quotations and bibliographical references. "Admirably compact and swiftly paced style." — *Philosophy of Science*. Foreword by Albert Einstein. The author of *The Case for Mars* provides an insider's look at the future of space

exploration and travel, examining the true potential for human expeditions into outer space, the prospects for colonization of the outer planets of the solar system, and their implications for the future of humankind. 35,000 first printing. Stephen Kern writes about the sweeping changes in technology and culture between 1880 and World War I that created new modes of understanding and experiencing time and space. To mark the book's twentieth anniversary, Kern provides an illuminating new preface about the breakthrough in interpretive approach that has made this a seminal work in interdisciplinary studies. The aim of this unique volume is twofold. First and foremost, it sets out to offer the reader a comprehensive and challenging view, from some of the most distinguished scholars in the field, of present and future trends and issues in the fields of international air and space law. By breaking new ground in this way, it pays tribute to the scholarly achievements of Henri (Or) Wassenbergh, whose ideas and work have helped to shape both air and space law throughout his long and distinguished career. "Air and Space Law: De Lege Ferenda" will be of interest to all those concerned with the present status of air and space law, and with the challenges the aviation and space industry must face in the century to come. For young science lovers, space exploration is perhaps one of the coolest fields of study. Readers of this illuminating book will get a peek into what it's like to visit the moon, climb aboard the International Space Station, and explore many other parts of space. Accessible text and attention-grabbing fact boxes hold the attention of even the most reluctant readers. The convenient page layout also includes colorful photographs paired with succinct, easy-to-digest captions. This high-interest volume is sure to engage and excite readers of many levels. 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. We're on the cusp of new era in the great adventure of space exploration. More than a half-century ago, humanity first hurled objects into space, and almost 50 years ago, astronauts first walked on the moon. Since then, we have explored Earth's orbit with shuttles, capsules, and space stations; sent robots to Mars, Venus, Mercury, Jupiter, Saturn, and Uranus; sampled a comet; sent telescopes into orbit; and charted most of our own planet. What does the future hold? In *Space 2.0*, space historian Rod Pyle, in collaboration with the National Space Society, will give you an inside look at the next few decades of spaceflight and long-term plans for exploration, utilization, and settlement. No longer the exclusive domain of government entities such as NASA and other national agencies, space exploration is rapidly becoming privatized, with entrepreneurial startups building huge rocket boosters, satellites, rocket engines, asteroid probes, prospecting craft, and even commercial lunar cargo landers to open this new frontier. Research into ever more sophisticated propulsion and life support systems will soon enable the journey to Mars and destinations deeper in our solar system. As these technologies continue to move forward, there are virtually no limits to human spaceflight and robotic exploration. While the world has waited since the Apollo lunar program for the next "giant leap," these critical innovations, most of which are within our grasp with today's technology, will change the way we live, both in space and on Earth. A new space age—and with it, a new age of peace and prosperity on Earth, and settlement beyond our planet—can be ours. Speaking with key leaders of the latest space programs and innovations, Pyle shares the excitement and promise of this new era of exploration and economic development. From NASA and the Russian space agency Roscosmos, to emerging leaders in the private sector such as SpaceX, Blue Origin, Moon Express, Virgin Galactic, and many others, *Space 2.0* examines the new partnerships that are revolutionizing spaceflight and changing the way we reach for the stars. With the second edition of *Space Mission Analysis and Design*, two changes have been introduced in the Space Technology Library. Foremost among these is the introduction of the Space Technology Series as a part of the Space Technology Library. Dr. Wiley Larson of the US Air Force Academy and University of Colorado, Colorado Springs, will serve as Managing Editor for the Space Technology Series. This series is a cooperative effort of the Department of Defense, National Aeronautics and Space Administration, Department of Energy, and European Space Agency, coordinated by the US Air Force Academy. The sponsors intend to bring a number of books into the series to improve the literature base in the fundamentals of space technology, beginning with the current volume. Books

which are not a part of the Space Technology Series, but which also represent a substantial contribution to the space technology literature, will still be published in the Space Technology Library. As always, we welcome suggestions and contributions from the aerospace community. *Introduction to state-space methods* covers feedback control; state-space representation of dynamic systems and dynamics of linear systems; frequency-domain analysis; controllability and observability; shaping the dynamic response; and more. 1986 edition. An all-new Step 2 Step into Reading reader based on *Space Jam: A New Legacy*, starring LeBron James and the Looney Tunes! Basketball superstar LeBron James teams up with Bugs Bunny and the Looney Tunes for *Space Jam: A New Legacy*, the long-awaited reimagining of the original, beloved film. Boys and girls ages 4 to 6 will love this Step 2 Step into Reading leveled reader. Step 2 Readers use basic vocabulary and short sentences to tell simple stories. For children who recognize familiar words and can sound out new words with help. 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. Before *Star Trek*, there was *Space Patrol*. Science fiction television has its roots in this live, action-packed series that captured the imagination of Americans from 1950 to 1955, when space travel was just a dream. This book explores the freewheeling spirit of live TV, where anything could go wrong before millions of viewers--and often did. It spotlights (often in personal interviews) the risk-taking *Space Patrol* cast and crew who laid vital groundwork for television today. Included are episode logs for both television and radio shows as well as a complete guide to *Space Patrol* memorabilia. 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. As civil space policies and programs have evolved, the geopolitical environment has changed dramatically. Although the U.S. space program was originally driven in large part by competition with the Soviet Union, the nation now finds itself in a post-Cold War world in which many nations have established, or are aspiring to develop, independent space capabilities. Furthermore discoveries from developments in the first 50 years of the space age have led to an explosion of scientific and engineering knowledge

and practical applications of space technology. The private sector has also been developing, fielding, and expanding the commercial use of space-based technology and systems. Recognizing the new national and international context for space activities, *America's Future in Space* is meant to advise the nation on key goals and critical issues in 21st century U.S. civil space policy. "A funny space adventure that spoofs Star Wars while providing an easy-to-read story." —Booklist

Brave Commander Toad and the crew of the spaceship *Star Warts* have a mission: they must go where no spaceship has gone before and bring a little bit of earth out to the alien stars. But when they try to land their sky skimmer on the planet made of water, a terrible sound rises from the waves. Deep Wader is not pleased at being disturbed. "This planet belongs to me," he roars. It looks as though the crew of the *Star Warts* might become the monster's lunch. Fans of *DK Readers: LEGO Star Wars*, Tom Angleberger's *Origami Yoda*, and silliness will toad-ally love *Commander Toad!*

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. The era of commercial space travel is here. No longer will space travel be limited to a small cadre of professionals. Space tourism is now available and will eventually become more affordable and accessible to ordinary consumers as time elapses. With this new era comes the need to train commercial space professionals. In this essay, Space strategist Gary C. Booker discusses how the training of space professionals must happen. Interior design maven Whitney Leigh Morris makes living in under 400 square feet look elegant and effortless—even with a husband, baby, and two Beagles in the mix. In her debut book, Whitney shares her ideas and practices for making any tiny space efficient and stylish—whether it's a rustic A-frame in the woods or a chic microapartment in the city. Featuring 300 tips for making the most of your little home, *Small Space Style* is the must-have, incredibly inspirational guide for living large in compact quarters. Join small space lifestyle expert Whitney Leigh Morris as she demonstrates how to keep clutter to a minimum, craft double duty layouts, personalize chic storage, go vertical when surfaces are limited, DIY clever custom built-ins, and even entertain a crowd within confined square footage. With chapters centered around the essentials—living, sleeping, eating, and bathing—*Small Space Style* features real-life examples from Whitney's own delightful and sophisticated cottage in Venice Beach, California, as well as home tours of some of her favorite tiny houses, micro apartments, and beautiful, efficient small spaces.

Looks at the George W. Bush Administration's vision for human and robotic space exploration. Assesses the implications for the content and funding of NASA's future exploration programs. Examines alternatives for the future of the space shuttle program and the United States' involvement in the International Space Station. Travel into space with this comprehensive visual encyclopedia of the cosmos, from the Big Bang to the Extremely Large Telescope. Full of galactic facts, dramatic photographs, and CGI artwork, and based on the latest astronomical research, this is a definitive guide to our Solar System, the Universe, and beyond... Accessible, entertaining, and authoritative, this comprehensive visual encyclopedia is the perfect introduction to the world of space and astronomy for children aged eight and above. 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. The book analyzes the various legal and political concepts to resolve the problem of the existing space debris in outer space and which measures have been taken to avoid space debris or to reduce potential space debris in the course of future space missions. From a scientific and technical point of view various studies are ongoing to analyze the feasibility of active debris removal. Nevertheless it has to be highlighted that outer space is an international area where various actors with different legal and political concepts are operating, a situation that leads to different approaches concerning such activities. Readers can pull the tabs to discover detailed illustrations of space exploration, including space craft, space suits, space stations, and space shuttles. As cities around the world seek new ways to improve their physical, social, and economic environments, they are paying greater attention to the value of public space. Provision of new plazas and parks, reclamation of existing waterfronts, and beautification of public streets are all increasingly viewed as important strategies for enhancing the quality of urban living. With scarce public dollars available, cities are teaming with the private sector in innovative public-private partnerships to fund these approaches. One of the most significant public-private partnerships to obtain urban public space has been pioneered in New York City under the rubric of privately owned public space. Since 1961, hundreds of office and residential towers have received zoning floor area bonuses to encourage the provision of a wide variety of outdoor and indoor spaces — plazas, arcades, atriums — that are legally required to be open and accessible to the public. At their best, these spaces marry aesthetics with function, offering unique physical and social environments within a densely packed urban center. At their worst, they are barren, unusable surfaces or privatized-by-management spaces that diminish the spirit underlying the laws that created them. Until now, comprehensive, systematic knowledge about this vast collection of public spaces has not existed, either for experts or members of the public. To remedy this gap, Harvard University professor Jerold S. Kayden, The New York City Department of City Planning, and The Municipal Art Society of New York have joined forces to research and write *Privately Owned Public Space: The New York City Experience*. Through words, photographs, scaled site plans, maps, and analysis of newly assembled data, they examine the history, law, design, and use of the city's privately owned public spaces. Each of the more than 500 spaces is individually discussed to provide far-reaching comparative information about this unique category of public space. In reading this book, designers, planners, lawyers, and academics will gain greater understanding about the possibilities and problems inherent in the design, management, and enforcement of privately owned public space. Public officials, private owners, and civic group representatives will learn more about their roles in ensuring public access and vitality of such spaces. Individuals will discover where New York City's public spaces are located and what amenities they offer. Everyone will comprehend more completely the contribution that privately owned public space can make toward open and attractive cities in which all individuals have access to a diversity of public places. 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.

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