

The Case For Space How The Revolution In Spaceflight Opens Up A Future Of Limitless Possibility

The Case for Space-Robert Zubrin 2019-05-14 A noted space expert explains the current revolution in spaceflight, where it leads, and why we need it. 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. Zubrin shows how projects that sound like science fiction can actually become reality. But beyond the how, he makes an even more compelling case for why we need to do this—to increase our knowledge of the universe, to make unforeseen discoveries on new frontiers, to harness the natural resources of other planets, to safeguard Earth from stray asteroids, to ensure the future of humanity by expanding beyond its home base, and to protect us from being catastrophically set against each other by the false belief that there isn't enough for all.

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Space Case-Stuart Gibbs 2014-09-16 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...

Case for Mars-Robert Zubrin 2011-06-28 Since the beginning of human history Mars has been an alluring dream—the stuff of legends, gods, and mystery. The planet most like ours, it has still been thought impossible to reach, let alone explore and inhabit. Now with the advent of a revolutionary new plan, all this has changed. Leading space exploration authority Robert Zubrin has crafted a daring new blueprint, Mars Direct, presented here with illustrations, photographs, and engaging anecdotes. The Case for Mars is not a vision for the far future or one that will cost us impossible billions. It explains step-by-step how we can use present-day technology to send humans to Mars within ten years; actually produce fuel and oxygen on the planet's surface with Martian natural resources; how we can build bases and settlements; and how we can one day "terraform" Mars—a process that can alter the atmosphere of planets and pave the way for sustainable life.

Making Space-Jennifer M. Groh 2014-11-05 Knowing where things are seems effortless. Yet our brains devote tremendous power to figuring out simple details about spatial relationships. Jennifer Groh traces this mental detective work to show how the brain creates our sense of location, and makes the case that the brain's systems for thinking about space may be the systems of thought itself.

The Case for Space Solar Power-John Mankins 2014 This book makes the case for Space Solar Power; recounting the history of this fascinating concept and summarizing the many different ways in which it might be accomplished. The book describes in detail a highly promising concept - SPS-ALPHA (Solar Power Satellite by means of Arbitrarily Large Phased Array) - and presents a business case comprising applications in space and markets on Earth. The book explains how it is possible to begin now with technologies that are already at hand, while developing the more advanced technologies that will be needed to deliver power economically to markets on Earth. The Case for Space Solar Power concludes by laying out a path forward that is both achievable and affordable: within a dozen years or less, the first multi-megawatt pilot plant could be in operation. Getting started could cost less than \$10 million over the first 2 years, less than \$100 million over the next half dozen years. Given that space solar power would transform our future in space, and might provide a new source of virtually limitless and sustainable energy to markets across the world, the book poses the question, "Why wouldn't we pursue space solar power?"

Space Case-Edward Marshall 1992-09-01 When the thing from outer space visits earth, it is taken first for a trick-or-treater and then for a robot.

The Case for Open Space-Chris Dunn 2019-04-08 The Case for Open Space explores the benefits of private sector involvement in creating, maintaining, operating, and programming parks and open space—ranging from enhanced returns on investment for developers that include open space in their projects to improved community health outcomes. This publication by the Urban Land Institute's (ULI) Building Healthy Places Initiative and ULI's Sustainable Development Council (SDC) incorporates research conducted by ULI staff and SDC members, as well as takeaways from stakeholder interviews—including with ULI members who have developed or supported parks and open space through their project investments.

Sexual Violence and Armed Conflict-Janie L. Leatherman 2013-04-26 Every year, hundreds of thousands of women become victims of sexual violence in conflict zones around the world; in the Democratic Republic of Congo alone, approximately 1,100 rapes are reported each month. This book offers a comprehensive analysis of the causes, consequences and responses to sexual violence in contemporary armed conflict. It explores the function and effect of wartime sexual violence and examines the conditions that make women and girls most vulnerable to these acts both before, during and after conflict. To understand the motivations of the men (and occasionally women) who perpetrate this violence, the book analyzes the role played by systemic and situational factors such as patriarchy and militarized masculinity. Difficult questions of accountability are tackled; in particular, the case of child soldiers, who often suffer a double victimization when forced to commit sexual atrocities. The book concludes by looking at strategies of prevention and protection as well as new programs being set up on the ground to support the rehabilitation of survivors and their communities. Sexual violence in war has long been a taboo subject but, as this book shows, new and courageous steps are at last being taken Ð at both local and international level - to end what has been called the “greatest silence in history”.

Humans in Space (Big Ideas: Low Intermediate)-Martin Hajovsky 2017-08-17

Reference Guide to the International Space Station-Gary Kitmacher 2010-11-01 The International Space Station (ISS) is a great international, technological, and political achievement. It is the latest step in humankind's quest to explore and live in space. The research done on the ISS may advance our knowledge in various areas of science, enable us to improve life on this planet, and give us the experience and increased understanding that can eventually equip us to journey to other worlds. As a result of the Station's complexity, few understand its configuration, its design and component systems, or the complex operations required in its construction and operation. This book provides high-level insight into the ISS. The ISS is in orbit today, operating with a crew of three. Its assembly will continue through 2010. As the ISS grows, its capabilities will increase, thus requiring a larger crew. Currently, 16 countries are involved in this venture. The sophisticated procedures required in the Station's construction and operation are presented in Amazing 3D Graphics generated by NASA 104 pages of spectacularly detailed color graphics the Space Station as you've never seen it before!

A Trip Through Time and Space-Jefferson Barrera 2013-05-04 Ryan has a normal life until a stranger comes into his life and takes him onto a mysterious journey where his mission is to find pieces to build a machine and a weapon. But the only way to get these items is to time travel. His friends who accompany him on his journey are Diego, Ashley, and Richard. That's when they find out that there is something evil lurking around them.

Space, Time and Matter-Ashay Dharwadkar 2010-08-08 We show how the grand unified theory based on the proof of the four color theorem can be obtained entirely in terms of the Poincaré group of isometries of space and time. Electric and gauge charges of all the particles of the standard model can now be interpreted as elements of the Poincaré group. We define the space and time chiralities of all spin 1/2 fermions in agreement with Dirac's relativistic wave equation. All the particles of the standard model now correspond to irreducible representations of the Poincaré group according to Wigner's classification. Finally, we construct the Steiner system of fermions and show how the Mathieu group acts as the group of symmetries of the fundamental building blocks of matter.

Space Safety and Human Performance-Barbara G. Kanki 2017-11-10 Space Safety and Human Performance provides a comprehensive reference for engineers and technical managers within aerospace and high technology companies, space agencies, operators, and consulting firms. The book draws upon the expertise of the world's leading experts in the field and focuses primarily on humans in spaceflight, but also covers operators of control centers on the ground and behavior aspects of complex organizations, thus addressing the entire spectrum of space actors. During spaceflight, human performance can be deeply affected by physical, psychological and psychosocial stressors. Strict selection, intensive training and adequate operational rules are used to fight performance degradation and prepare individuals and teams to effectively manage systems failures and challenging emergencies. The book is endorsed by the International Association for the Advancement of Space Safety (IAASS). Provides information on critical aspects of human performance in space missions Addresses the issue of human performance, from physical and psychosocial stressors that can degrade performance, to selection and training principles and techniques to enhance performance Brings together essential material on: cognition and human error; advanced analysis methods such as human reliability analysis; environmental challenges and human performance in space missions; critical human factors and man/machine interfaces in space systems design; crew selection and training; and organizational behavior and safety culture Includes an endorsement by the International Association for the Advancement of Space Safety (IAASS)

Space Platform-Murray Leinster 2019-07-11 Ever since ancient man first gazed in wonder at the stars, humanity has dreamed of traveling to outer space. Now scientists agree that space-flight may very soon become a reality. When young Joe Kenmore came to Bootstrap to install pilot gyros in the Platform he hadn't bargained for sabotage or murder or love. But Joe learned that ruthless agents were determined to wreck the project. Joe and his companions would have to fight with their bare hands to make man's age old dream of space travel come true.

Dark Skies-Daniel Deudney 2020-03-02 Space is again in the headlines. E-billionaires Jeff Bezos and Elon Musk are planning to colonize Mars. President Trump wants a "Space Force" to achieve "space dominance" with expensive high-tech weapons. The space and nuclear arms control regimes are threadbare and disintegrating. Would-be asteroid collision diverters, space solar energy collectors, asteroid miners, and space geo-engineers insistently promote their Earth-changing mega-projects. Given our many looming planetary catastrophes (from extreme climate change to runaway artificial superintelligence), looking beyond the earth for solutions might seem like a sound strategy for humanity. And indeed, bolstered by a global network of fervent space advocates-and seemingly rendered plausible, even inevitable, by oceans of science fiction and the wizardly of modern cinema-space beckons as a fully hopeful path for human survival and flourishing, a positive future in increasingly dark times. But despite even basic questions of feasibility, will these many space ventures really have desirable effects, as their advocates insist? In the first book to critically assess the major consequences of space activities from their origins in the 1940s to the present and beyond, Daniel Deudney argues in Dark Skies that the major result of the "Space Age" has been to increase the likelihood of global nuclear war, a fact conveniently obscured by the failure of recognize that nuclear-armed ballistic missiles are inherently space weapons. The most important practical finding of Space Age science, also rarely emphasized, is the discovery that we live on Oasis Earth, tiny and fragile, and teeming with astounding life, but surrounded by an utterly desolate and inhospitable wilderness stretching at least many trillions of miles in all directions. As he stresses, our focus must be on Earth and nowhere else. Looking to the future, Deudney provides compelling reasons why space colonization will produce new threats to human survival and not alleviate the existing ones. That is why, he argues, we should fully relinquish the quest. Mind-bending and profound, Dark Skies challenges virtually all received wisdom about the final frontier.

Hello from Planet Earth! Earth Class Planets - Space Science for Kids - Children's Astronomy Books-Professor Gusto 2016-05-25 Why should you buy this book for your child? Well, it contains carefully picked information and then presents that in a way that attracts a child. The inclusion of cool photos increase the efficiency of this book as a tool for learning. So what are you waiting for? Encourage your child to learn about the cosmos today!

Real Value New Ways to Think About Your Time, Your Space & Your Stuff-John Odalen 2016-03-10 Do you feel overwhelmed by all the stuff in your home? Is your home office a messy file drawer of papers? Do you want to get organized, but you do not know where to start? This book will help you look at your stuff differently and put you on the right track to get organized and stay organized, so you can better enjoy life. We will consider the real value of our possessions. Is "real value" a dollar amount? Or the usefulness of the item? Or how it makes you feel? There are many ways to consider an item's value, none of them right or wrong. Everything is relative in terms of what is really important to you, whether it be your time, your space, or your stuff.

Active Debris Removal in Space-Robin Biesbroek 2015-02-18

The Colour Out of Space-H. P. Lovecraft 2020-08-06 The master of weird fiction, H. P. Lovecraft combines cosmic fantasy with creeping horror in these three tales of malevolent alien forces, body-switching and travel across the space-time continuum. 'Evil, in Lovecraft, is universal, pervasive' Michael Chabon 'His prescience and novelty seem more and more remarkable ... shows a deeply modern horror at the universe' Guardian 'A unique and visionary world of wonder, terror and delirium' Clive Barker

Jigsaw Jones: The Case from Outer Space-James Preller 2017-08-08 Jigsaw Jones is back and better than ever in this brand-new chapter book mystery. Are aliens coming to Earth? Jigsaw and friends have a clue, but is there really life in outer space?

Space Mafia-Douglas Carr 2014-08-06 In the 28th century, a philanthropic entrepreneur owns a group of trade outposts on the edge of the Terran Alliance territory. Traders, travellers and wanderers pass through, spending vast amounts of money. The galaxy's foremost alliance of criminals covets the profit-making capacity of the company, so they have sent agents to the station where the company owner lives, intent on taking control one way or another. But a never-before-seen stellar phenomenon isolates the station, leaving the station's crew, the innocent travellers and the handful of agents stuck together in a crucible of attack and counter-attack - while a mischievous entity takes control of people indiscriminately, intent on wreaking further havoc.

Poems Beyond Space and Time-Sergio Ragaini 2014-04-22 What's Poetry? A blink in an endless Space and Time. Something bound to be not seized. But, in itself, Poetry may be something wonderful, outstanding. Something able to exceed Space and Time, putting everything together, and bringing everything in the Here and the Now. Trough Art and Poetry, one may cross, exceed everything, flying among Universes, to be in touch with everything, finding out that everything lays inside himself. And everything is really deep and intense Beauty. Out of this overlook and perception, Poetry may really enhance something special: something able to uplift our perception upon Life and things around us. Something able to enhance a new Life, and to make us aware that there's something beyond what we think. That There's a wonderful World, starting from ourselves, that's there just to be discovered and penetrated.

No Place Like Earth-Lori Fettner 2017-04-05 A child's dream takes us on a journey through space. The child looks for a place to land while exploring each planet, but some are too hot, some are too cold, and some are

just made of liquid and gas. Only planet Earth is just right. Fun rhyming text introduces children to each planet and basic facts about it. The text is accompanied by stunning images of a rocket traveling through the solar system, interspersed by close up images of each planet in order. While each planet is amazing in its own way, there is only one we can call home. If parents choose, this can be the start to a conversation about how we can take better care of our planet. Visit lorifettner.wordpress.com/no-place-like-earth/ to see sample pages from the interior.

Infinite Travels-Stephen Palmer 2016-06-18 Compete in the Space Race with Infinite Travels! The Ultimate History Book for Kids! *FUNDRAISER* please help. If you liked Where The Wild Things Are, You'll love Infinite Travels! Explore the FUN facts of history hands-on with Billy, your Infinite Travels guide! In this issue, Billy takes you to the year 1957, when the Space Race began. Take a ride in outer space and discover what it took to set foot on the moon for the first time! Learn about famous satellites, spaceships and astronauts that brought us to the new frontier in this fun-filled, action-packed history lesson for kids! Fun games and trivia inside every issue! VISIT: www.INFINITETRAVELSWORLD.com FOR MORE GAMES AND FUN! LIKE INFINITE TRAVELS ON FACEBOOK! Infinite Travels actively supports education; donating 10 percent of all proceeds directly to fundraisers WORLDWIDE, pertaining to kids' education! please help us with your support. About the Author Stephen Palmer is known world-wide for his wild cartoon style and endless imagination. Creator of Burt the Worm(tm) as seen on Adult Swim(tm) Williams Street Stream(tm), JungleVille(tm) on Eugene's PBS(tm), The Escape from Swiss Cheese Island(tm) and Infinite Travels(tm) available on Amazon(tm) and Barnes and Noble(tm) all under SP Productions. Other affiliated projects include cartoon and animation for Anitopia(tm), InTour(tm) and Story Drops(tm) available on the iTunes App Store(tm) and Google Play(tm). Stephen illustrates Buddy the Motocross Bike(tm) available on Amazon(tm) and Barnes and Noble(tm). He works with a wide variety of mediums from graphic and motion design to illustration, animation and VFX. Stephen is well known for his consistent reputation of creating professional, and distinctive products while working within an art style that is unlike any other. At a young age, Stephen enjoyed reading Bill Watterson's 'Calvin and Hobbes' and tracing illustrations out of Shel Silverstein's poem books like 'Light in the Attic' and 'The Giving Tree'. Today whenever he has the spare time, he enjoys watching cartoons and movies, playing lacrosse, gold panning and cooking. Stephen aims to bring happy, sadness joy and laughter to all his viewers, young and old. *For more information on Stephen Palmer visit his IMDB or view Stephen's Demo Reel: IMDB:

<http://www.imdb.com/name/nm5057685/> Vimeo: <https://vimeo.com/54503716> Author's Note It all started with an idea, which led to an animation. The idea came from my childhood - I used to dress up as my favorite action-figure and run around the neighborhood pretending I was that toy. I wanted to run with this idea of imagination - a boy with his imagination. However, I had another passion - education. I truly wanted to show young souls how much fun it could be to learn about topics such as History with just a touch of imagination. So I created Billy - a young boy eager to travel not just to different places, but to different time periods. Kids will enjoy flipping each page, seeing the beautiful colors, characters and events that formulated our world. Billy uses his trusty Time Machine to take kids to these places, teaching them everything they need to know. Best part is, the books are interactive, as I have added fun games and trivia in the back of every book, just like I remember ruining the lovely books my mother bought for me, scribbling in them as a young child. With Infinite Travels, you don't need to worry about that. The kids can color and fun as well as learn in the process. To see the animation I've created before Infinite Travels was even an idea yet, please visit this link: <https://vimeo.com/22664441> The overall idea was to have fun with this particular project of SP Productions. We want to make sure every product of ours moves our consumers. Stay tuned for more Infinite Travels issues in the future! *BUY YOUR COPY AND HELP CHILDREN TODAY!*

Discovering the Miracle of the Scarlet Thread in Every Book of the Bible-Richard Booker 2009-11-28 Yes you can understand the Bible! Discovering the Miracle of the Scarlet Thread in Every Book of the Bible takes the mystery and confusion out of the Bible and makes God's Word come alive with new insights and a fresh excitement that will have you searching for more. Dr. Richard Booker unveils the mysteries and secrets of the Bible by explaining its master theme, and then reveals a simple plan so you can discover God's personal revelation for yourself. The author provides Exciting biblical background, An interesting survey of each book in the Bible, Each book's master theme, Practical principles, forms, and guidelines for your own life-enriching Bible study. The sometimes hard-to-understand teachings of Jesus in their original culture and context come alive and become real through discovering the miracle of the scarlet thread. Then Jesus began to explain everything which had been written in the Scriptures about Him. Jesus started with the books of Moses and then He talked about what the prophets had written about Him (Luke 24:27 PEB). This book about the Bible will change the way you think about His Word His life-changing and eternal Word.

The Seeds of New Earth (the Silent Earth, Book 2)-Mark R. Healy 2014-12-17 The Earth is in ruins. Cities and nations destroyed. Mankind is extinct. Brant and Arsha are synthetics, machines made in the image of people. They dream of bringing humans back into the world and have the technology to succeed, but the obstacles in their way are mounting. Not only are their own conflicting ideals creating a rift between them, but now the sinister Marauders are closing in as they seek revenge on Brant. Out in the wasteland, strange lights and mysterious objects in the sky herald the arrival of new factions that seek to control the region. Even in the once quiet streets of their own city, malevolent forces are beginning to unfurl that threaten the sanctity of everything they hold dear, jeopardising the future that is within their grasp. The Silent Earth Series Book 1 - After the Winter: amazon.com/dp/B00P02FBPM

Not from Space-Steve Preston 2015-05-23 Are you one of those who believe that the UFO ships people are seeing all the time are from another world? Do you believe people from billions of miles away leave their families, children and homeland on a one way venture to see if our cattle have genitals? Are you one that believes earth is so important to someone so far away that they would risk everything to "visit" us and never bother to let us know officially that they were here? Certainly after centuries of "sightings" these people are not so stupid as to think we thought they were in a flying potato. Let me ask you a different question. After seeing the many "survivors of these craft, are you one that believes life forms independently evolving across the galaxies would have the same 2 eyes, 2 nostrils, 2 ears, two arms, two legs, one head, one neck, a chest and rump? Would these beings talk through vocal cords and walk and sit and turn their heads just like humans do when? Given that scenario, are there any differences between men and roaches, spiders, octopus, whales, Aye-Ayes, and slugs? Certainly those beings evolving with us would be more like us than those across a galaxy. With that let me just say, pilots that fly UFOs are human and there is plenty of proof.

Free Space-Ian Clark 2017-05-23 "Free Space" is a short photo and poetry book which explores things that bring happiness to people and the journey towards happiness.

Cadet Adam-Bill Eckel 2017-05-25 The Ninharug Award for Science is rarely given. Adam has won it. With it he can choose his future. Rebelling against his parents, Adam follows his crib-mate, Evie, into the Fleet Academy. Once there he falls afoul of the Psychic Wing, the menacing new branch of Space Fleet, who has recruited Evie. He is determined to save her. But first he must save himself. The Psychics plan to usurp the throne of the Ancient of Days, leader of the Most High Federation of Planets, and Adam stands in their way.

The Eye of Hermes-William Howard 2017-02-11 In a far corner of the universe, two intelligent insect races, the bee-like Polistine and the Beetleguise have been engaged in a bitter war that has lasted 500 years. In fact, the only place in the universe where they are able to co-exist is on the asteroid prison, Minerva, home to the worst alien criminals in the galaxy. Even with their inability to end this conflict, both races are faced with the knowledge that greater threats are on the horizon. First, an ancient gem with an insatiable appetite for energy has awoken from its long slumber. The only thing standing in its way is Astral Engineer Kasidy Vulkner and the crew of the Mjolnir. Second, the tyrannical warlord Diabolix is making his way back into this dimension with plans for galactic conquest. And the only being that can stop him is an Abomination.

Spacecorp-Ejner Fulsang 2014-12-05 2070 AD-The dire prophecies of the Kessler Syndrome have rendered Low Earth Orbit non-viable for conventional satellites. SpaceCorp has solved the problem with giant ring-shaped space stations that protect their payload instruments while housing a large human crew to affect the continuous repairs needed to keep the stations in orbit. But the people of SpaceCorp dream of one day living among the stars. This is the first of the Galactican Series where SpaceCorp moves from LEO to Cisluna. Future books will take them to Mars, the Main Belt Asteroids, the Trans Neptunian region, and eventually Alpha Centauri. Join them in their quest to develop new, realistic spacecraft capable of achieving half the speed of light. Join them in their quest to genetically alter themselves to become the first people capable of surviving the rigors of interstellar space-Homo galacticus.

The Case of the U. S. Space Camp Mission-Carol Thompson 1996 While visiting the U.S. Space Camp, Mary-Kate and Ashley search for clues that will explain why the space shuttle was covered with hundreds of mysterious holes.

The Wrong Side of Space-Britt Ringel 2015 Lt. Commander Heskan and Komandor Lombardi have only one thing in common - the will to survive. Bitter rivals for over a century, the Brevic Republic and the Hollaran Commonwealth are at war. Cultures that shared a common Terran ancestry have been isolated for decades. Now, Heskan's escort ships must protect Lombardi's heavy cruisers as they are forced to run together into unexplored space from a devastating threat. Each commander faces dissension in the ranks, even as they try to unite their fleets and find some way to escape the fate of so many of their fallen comrades. For the duration of the tenuous truce, there is a singular objective... make it home. Yet there can be only one destination at the end of their journey, and only half of the fleet will be safe, if they reach the Republic or Commonwealth at all. If the warring governments cannot be trusted to secure safe passage of the allied crews, how can the two commanders trust each other? This is Book 3 in the This Corner of the Universe series, continuing the story of the original crew of BRS Anelace and her captain.

The Case for Space-United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science and Space 2010

Entering Space-Robert Zubrin 1999 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.

Case and Space-N. E. Collinge 1980

The Case for Open Space- 1969

The Case for Space Solar Power-John Mankins 2013 This book makes the case for Space Solar Power; recounting the history of this fascinating concept and summarizing the many different ways in which it might be accomplished. The book describes in detail a highly promising concept - SPS-ALPHA (Solar Power Satellite by means of Arbitrarily Large Phased Array) - and presents a business case comprising applications in space and markets on Earth. The book explains how it is possible to begin now with technologies that are already at hand, while developing the more advanced technologies that will be needed to deliver power economically to markets on Earth. The Case for Space Solar Power concludes by laying out a path forward that is both achievable and affordable: within a dozen years or less, the first multi-megawatt pilot plant could be in operation. Getting started could cost less than \$10 million over the first 2 years, less than \$100 million over the next half dozen years. Given that space solar power would transform our future in space, and might provide a new source of virtually limitless and sustainable energy to markets across the world, the book poses the question, "Why wouldn't we pursue space solar power?"

The Case for Space-United States Senate 2019-09-04 The case for space: examining the value: hearing before the Subcommittee on Science and Space of the Committee on Commerce, Science, and Transportation, United States Senate, One Hundred Eleventh Congress, first session, October 21, 2009.

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