

Spaceworks Engineering Inc Sei

Astronomer's Computer Companion
The Complete Star Wars Encyclopedia: P-Z
The Wright Stuff
Forthcoming Books
No Bucks, No Buck Rogers
The Sleeper Awakes
40th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit July 11-14, 2004, Fort Lauderdale, FL.: 04-3950 - 04-3999
The Case for Space Solar Power
Aerospace America
41st AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit 10-13 July 2005, Tucson, Arizona: 05-4350 - 05-4399
Proceedings of the 13th Reinventing Space Conference
Space Enterprise
Global Space Governance: An International Study
Spaceports Around the World, A Global Growth Industry
Proceedings The Design of Design
Comet/Asteroid Impacts and Human Society
39th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit July 20-23, 2003, Huntsville, Alabama: 03-5250 - 03-5286
Robot Operating System (ROS)
Examining Text and Authorship in Translation
Martian Outpost
The Practitioner's Handbook of Project Performance
The Compu-mark Directory of U.S. Trademarks
Computer Aided Architectural Design
Futures 2005
Cyber Crime Investigator's Field Guide
Fostering Visions for the Future
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Astronomer's Computer Companion

This is a book about the business of space. It is indeed the first such book which explores the creation of the whole new field of commercial space exploration, previously considered to be an oxymoron. Starting with the transformation of the original governmental and military space programs into the successful satellite communications businesses.

The Complete Star Wars Encyclopedia: P-Z

The first volume of its kind to address concepts and theories of what constitutes a 'Middle Power' in the Middle East.

The Wright Stuff

Invented more than a hundred years ago by Alexander Graham Bell, the technology of free-space optical communications, or lasercom, has finally reached the level of maturity required to meet a growing demand for operational multi-giga-

bit-per-second data rate systems communicating to and from aircrafts and satellites. Putting the emphasis on near-earth links, including air, LEO, MEO, and GEO orbits, Near-Earth Laser Communications presents a summary of important free-space laser communication subsystem challenges and discusses potential ways to overcome them. This comprehensive reference provides up-to-date information on component and subsystem technologies, fundamental limitations, and approaches to reach those limits. It covers basic concepts and state-of-the-art technologies, emphasizing device technology, implementation techniques, and system trades. The authors discuss hardware technologies and their applications, and also explore ongoing research activities and those planned for the near future. The analytical aspects of laser communication have been covered to a great extent in several books. However, a detailed approach to system design and development, including trades on subsystem choices and implications of the hardware selection for satellite and aircraft telecommunications, is missing. Highlighting key design variations and critical differences between them, this book distills decades' worth of experience into a practical resource on hardware technologies.

Forthcoming Books

Long gone are the days when a computer took up an entire room. Now we have computers at home, laptops that travel just about anywhere, and data networks

that allow us to transmit information from virtually any location in a timely and efficient manner. What have these advancements brought us? Another arena for criminal activity. If someone wants to focus and target something, more than likely they will obtain what they want. We shouldn't expect it to be any different in cyberspace. Cyber Crime Field Handbook provides the details of investigating computer crime from soup to nuts. It covers everything from what to do upon arrival at the scene until the investigation is complete, including chain of evidence. You get easy access to information such as: Questions to ask the client Steps to follow when you arrive at the client's site Procedures for collecting evidence Details on how to use various evidence collection and analysis tools How to recover lost passwords or documents that are password protected Commonly asked questions with appropriate answers Recommended reference materials A case study to see the computer forensic tools in action Commonly used UNIX/Linux commands Port number references for various services and applications Computer forensic software tools commands synopsis Attack signatures Cisco PIX firewall commands We now have software and hardware to protect our data communication systems. We have laws that provide law enforcement more teeth to take a bite out of cyber crime. Now we need to combine understanding investigative techniques and technical knowledge of cyberspace. That's what this book does. Cyber Crime Field Handbook provides the investigative framework, a knowledge of how cyberspace really works, and the tools to investigate cyber crimetools that tell you the who, where, what, when, why, and how.

No Bucks, No Buck Rogers

In Space Enterprise - Living and Working Offworld, Dr Philip Harris provides the vision and rationale as to why humanity is leaving its cradle, Earth, to use space resources, as well as pursuing lunar industrialization and establishing offworld settlements. As a management/space psychologist, Dr. Harris presents a behavioral science perspective on space exploration and enterprise. In this his 45th book, Phil has completely revised and updated the two previous editions of this classic, placing new emphasis on the need for more synergy and participation by the private sector. He not only provides a critical review of what is happening in the global space community, but offers specific strategies for lunar economic development. The author analyzes the human factors in contemporary and future space developments, especially relative to the deployment of people aloft. This user-friendly volume offers numerous photographs, diagrams, exhibits, and case studies.

The Sleeper Awakes

40th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit July 11-14, 2004, Fort Lauderdale, FL.: 04-3950 -

04-3999

The NASA Institute for Advanced Concepts (NIAC) was formed in 1998 to provide an independent source of advanced aeronautical and space concepts that could dramatically impact how NASA develops and conducts its missions. Until the program's termination in August 2007, NIAC provided an independent open forum, a high-level point of entry to NASA for an external community of innovators, and an external capability for analysis and definition of advanced aeronautics and space concepts to complement the advanced concept activities conducted within NASA. Throughout its 9-year existence, NIAC inspired an atmosphere for innovation that stretched the imagination and encouraged creativity. As requested by Congress, this volume reviews the effectiveness of NIAC and makes recommendations concerning the importance of such a program to NASA and to the nation as a whole, including the proper role of NASA and the federal government in fostering scientific innovation and creativity and in developing advanced concepts for future systems. Key findings and recommendations include that in order to achieve its mission, NASA must have, and is currently lacking, a mechanism to investigate visionary, far-reaching advanced concepts. Therefore, a NIAC-like entity should be reestablished to fill this gap.

The Case for Space Solar Power

Aerospace America

41st AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit 10-13 July 2005, Tucson, Arizona: 05-4350 - 05-4399

Independent living with smart technologies Smart Technology for Aging, Disability, and Independence: The State of the Science brings together current research and technological developments from engineering, computer science, and the rehabilitation sciences, detailing how its applications can promote continuing independence for older persons and those with disabilities. Leading experts from multiple disciplines worldwide have contributed to this volume, making it the definitive resource. The text begins with a thorough introduction that presents important concepts, defines key terms, and identifies demographic trends at work. Using detailed product descriptions, photographs and illustrations, and case studies, subsequent chapters discuss cutting-edge technologies, including: * Wearable systems * Human-computer interactions * Assisted vision and hearing * Smart wheelchairs * Handheld devices and smart phones * Visual sensors * Home automation * Assistive robotics * In-room monitoring systems * Telehealth After considering specific high-technology solutions, the text examines recent trends in

other critical areas, such as basic assistive technologies, driving, transportation and community mobility, home modifications and design, and changing standards of elder care. Students and professionals in the rehabilitation sciences, healthcare providers, researchers in computer science and engineering, and non-expert readers will all appreciate this text's thorough coverage and clear presentation of the state of the science.

Proceedings of the 13th Reinventing Space Conference

Geared toward advanced undergraduates and graduate students, this text develops the concepts of electrical acceleration of gases for propulsion, from primary physical principles to realistic space thruster designs. 1968 edition.

Space Enterprise

Agent-based modeling and simulation (ABMS) is a developing technique for understanding emergent behavior in complex systems. Pioneered by the Santa Fe Institute, it is a flexible managerial tool that offers a way to examine the robustness of particular solutions a manager might be considering. It helps managers simulate a large number of choices by individual actors and determine the consequences of other actors adapting to their decisions. This book is a

focused, applicable introduction to business ABMS for senior executives and managers.

Global Space Governance: An International Study

The author takes a close-up look at the U.S. space program and explains why it should be used to protect us and the planet from a growing number of perils, including environmental crises, asteroid strikes, and terrorist threats.

Spaceports Around the World, A Global Growth Industry

Making Sense of Design Effective design is at the heart of everything from software development to engineering to architecture. But what do we really know about the design process? What leads to effective, elegant designs? The Design of Design addresses these questions. These new essays by Fred Brooks contain extraordinary insights for designers in every discipline. Brooks pinpoints constants inherent in all design projects and uncovers processes and patterns likely to lead to excellence. Drawing on conversations with dozens of exceptional designers, as well as his own experiences in several design domains, Brooks observes that bold design decisions lead to better outcomes. The author tracks the evolution of the design process, treats collaborative and distributed design, and illuminates what

makes a truly great designer. He examines the nuts and bolts of design processes, including budget constraints of many kinds, aesthetics, design empiricism, and tools, and grounds this discussion in his own real-world examples—case studies ranging from home construction to IBM's Operating System/360. Throughout, Brooks reveals keys to success that every designer, design project manager, and design researcher should know.

Proceedings

Huntsville, Alabama, 24-26 February 2009

The Design of Design

In the dystopian vision of H. G. Wells' novel *The Sleeper Awakes* (1910), a man awakes to a London where all he knew has radically changed after his sleep of two hundred and three years. Due to the wonders of compound interest, he is now this later world's richest man. As a committed socialist and futurist, he now sees his dreams realized and revealed to him in all their abhorrent and frightful glory.

Comet/Asteroid Impacts and Human Society

Leading specialists in various disciplines were first invited to a multidisciplinary workshop funded by ICSU on the topic to gain a better appreciation and perspective on the subject of comet/asteroid impacts as viewed by different disciplines. This volume provides a necessary link between various disciplines and comet/asteroid impacts.

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Robot Operating System (ROS)

This book offers a clearly written, entertaining and comprehensive source of medical information for both writers and readers of science fiction. Science fiction in print, in movies and on television all too often presents dubious or simply incorrect depictions of human biology and medical issues. This book explores the real science behind such topics as how our bodies adapt to being in space, the real-life feasibility of common plot elements such as suspended animation and medical nanotechnology, and future prospects for improving health, prolonging our lives, and enhancing our bodies through technology. Each chapter focuses on a single

important science fiction-related subject, combining concise factual information with examples drawn from science fiction in all media. Chapters conclude with a “Bottom Line” section summarizing the most important points discussed in the chapter and giving science fiction writers practical advice on how to incorporate them into their own creations, including a list of references for further reading. The book will appeal to all readers interested in learning about the latest ideas on a variety of science fiction-related medical topics, and offers an invaluable reference source for writers seeking to increase the realism and readability of their works. Henry G. Stratmann, MD, FACC, FACP is a cardiologist with board certifications in internal medicine, cardiology, and nuclear cardiology. Before entering private practice he became Professor of Medicine at St. Louis University School of Medicine and performed clinical medical research. Henry received a BA in chemistry from St. Louis University and his MD at Southern Illinois University School of Medicine. He is currently enrolled at Missouri State University to obtain a BS in physics with a minor in astronomy. His professional publications include being an author or coauthor of many research articles for medical journals, primarily in the field of nuclear cardiology. Henry is also a regular contributor of both stories and science fact articles to Analog Science Fiction and Fact.

Examining Text and Authorship in Translation

Practitioners operate in a necessary reality. We work in a space where project

performance is above theory or methodology. In the best environments, delivery and an affirmative culture are what matter most. In the worst, it is politics and survival. In any environment we are challenged to adopt best practices and adapt our style to the environment in which the project is occurring. This is a book about those best practices and practitioner experiences. It is a must have reference and guide book for project managers, general managers, business leaders and project management researchers. This book is the result of the hard work and dedication of more than 35 authors from more than 15 countries across four continents. It brings a diversity of experience, professional and personal. It includes practitioners, leading academics, renowned theorists and many who straddle those roles. The chapters cover experiences in software, large scale infrastructure projects, finance and health care, to name a few. The chapters themselves take many forms. Check out the table of contents to get a deeper sense of the topics included. All provide real-world guidance on delivering high performing projects and show you how to build, lead and manage high performing teams. The Practitioners Handbook of Project Performance is complete in itself. It can also be an enticing start to an ongoing dialogue with the authors and a pleasurable path to get deeper into the subject of project performance. Find your favorite place to begin learning from these chapters, to begin taking notes and taking away nuggets to use in your everyday. But don't stop there. Contact information and further resources for this diverse team of experts authors are found throughout. The Practitioners Handbook is a modern guide to the leading edge of project

performance management and a path to the future of project delivery.

Martian Outpost

The Practitioner's Handbook of Project Performance

MARTENS Bob and BROWN Andre Co-conference Chairs, CAAD Futures 2005
Computer Aided Architectural Design is a particularly dynamic field that is developing through the actions of architects, software developers, researchers, technologists, users, and society alike. CAAD tools in the architectural office are no longer prominent outsiders, but have become ubiquitous tools for all professionals in the design disciplines. At the same time, techniques and tools from other fields and uses, are entering the field of architectural design. This is exemplified by the tendency to speak of Information and Communication Technology as a field in which CAAD is embedded. Exciting new combinations are possible for those, who are firmly grounded in an understanding of architectural design and who have a clear vision of the potential use of ICT. CAAD Futures 2005 called for innovative and original papers in the field of Computer Aided Architectural Design, that present rigorous, high-quality research and development work. Papers should point towards the future, but be based on a thorough understanding of the past and

present.

The Compu-mark Directory of U.S. Trademarks

This brief presents a concise description of the existing spaceport market, the technologies being tested and developed at them, and the private companies that are making them possible. While NASA has its own plan for the future of space exploration, one that includes a new shuttle, an interplanetary spacecraft, and astronauts going to Mars, many people believe that the real future of space exploration is currently centered around dozens of commercial spaceports, financed by entrepreneurs inspired not only by profit but by the dream of creating a new space age, one not limited by bureaucracies or by budget allocations. Commercial spaceports in Florida, Texas, Oklahoma, Virginia and Alaska, as well as in countries like Curaçao and Sweden, are becoming home to dozens of private aerospace companies and provide a place where cutting-edge technology can be developed, tested and launched into space. Based on original interviews with principles at the various companies involved and on-site observations at the Mojave Air and Space Port, the author traces the early days of the spaceport movement and outlines what lies ahead.

Computer Aided Architectural Design Futures 2005

This second volume is a continuation of the successful first volume of this Springer book, and as well as addressing broader topics it puts a particular focus on unmanned aerial vehicles (UAVs) with Robot Operating System (ROS). Consisting of three types of chapters: tutorials, cases studies, and research papers, it provides comprehensive additional material on ROS and the aspects of developing robotics systems, algorithms, frameworks, and applications with ROS. ROS is being increasingly integrated in almost all kinds of robots and is becoming the de-facto standard for developing applications and systems for robotics. Although the research community is actively developing applications with ROS and extending its features, amount of literature references is not representative of the huge amount of work being done. The book includes 19 chapters organized into six parts: Part 1 presents the control of UAVs with ROS, while in Part 2, three chapters deal with control of mobile robots. Part 3 provides recent work toward integrating ROS with Internet, cloud and distributed systems. Part 4 offers five case studies of service robots and field experiments. Part 5 presents signal-processing tools for perception and sensing, and lastly, Part 6 introduces advanced simulation frameworks. The diversity of topics in the book makes it a unique and valuable reference resource for ROS users, researchers, learners and developers.

Cyber Crime Investigator's Field Guide

Fostering Visions for the Future

This book, the first in-depth study of authorship in translation, explores how authorial identity is 'translated' in the literary text. In a detailed exploration of the writing of East German author Christa Wolf in English translation, it examines how the work of translators, publishers, readers and reviewers reframes the writer's identity for a new reading public. This detailed study of Wolf, an author with a complex and contested public profile, intervenes in wide-ranging contemporary debates on globalised literary culture by examining how the fragmented identity of the 'international' author is contested by different stakeholders in the construction of a world literature. The book is interdisciplinary in its approach, representing new work in Translation Studies and German Studies that is also of interest and relevance to scholars of literature in other languages.

Proceedings of the Fifty-Second Colloquium on the Law of Outer Space

41st AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit 10-13 July 2005, Tucson, Arizona: 05-4150 - 05-4199

Smart Technology for Aging, Disability, and Independence

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 Survival Imperative

Reinventing Space is the largest global conference and exhibition for one of the

space industry's fastest growing sectors. Over its 82-year history, the British Interplanetary Society has acted as a forum for new and innovative ideas and developments in astronautics, low-cost access and utilization of space. These conference proceedings reflect the work done at the 13th Reinventing Space Conference, the second biggest space event in the UK during 2015. The global economic climate is creating demand to reduce expenditure, leading to new challenges and opportunities in the world's space industry. The need to create more responsive systems and launchers that are capable of delivering to space quickly, cheaply and reliably has never been more vital. This collection from RIspace brings together industry, agency, government, financiers, academia and end users. It focuses on the commercialization of space and addresses a range of topics including low-cost launch opportunities, the rebirth of constellations, beyond LEO activities and novel technologies. These papers encourage and promote forward-thinking ideas and concepts for the future exploration and utilization of space. The proceedings address:

- New ways of doing business in space – how do we make money on affordable and responsive space missions?
- Tactical space systems – how do we best serve the needs of defense missions; civilian missions; the needs of emergency responders?
- Interplanetary missions – can we use new technology to explore the Solar System at dramatically lower cost?
- What are the methods, processes, and technologies that we can use to make major reductions in the cost of space missions?
- New application areas for low-cost space systems – which ones can take advantage of newer, much lower-cost systems?
- How do we

educate and motivate the coming generation, without whom there won't be a space industry?

Unfulfilled Aspirations

Developed and expanded from the work presented at the New Energetic Materials and Propulsion Techniques for Space Exploration workshop in June 2014, this book contains new scientific results, up-to-date reviews, and inspiring perspectives in a number of areas related to the energetic aspects of chemical rocket propulsion. This collection covers the entire life of energetic materials from their conceptual formulation to practical manufacturing; it includes coverage of theoretical and experimental ballistics, performance properties, as well as laboratory-scale and full system-scale, handling, hazards, environment, ageing, and disposal. Chemical Rocket Propulsion is a unique work, where a selection of accomplished experts from the pioneering era of space propulsion and current technologists from the most advanced international laboratories discuss the future of chemical rocket propulsion for access to, and exploration of, space. It will be of interest to both postgraduate and final-year undergraduate students in aerospace engineering, and practicing aeronautical engineers and designers, especially those with an interest in propulsion, as well as researchers in energetic materials.

Managing Business Complexity

Moon Rush

Recounted through a well-selected collection of photographs, this discussion relates a succession of advancements and risk taking, chronicling the evolution of space tourism. Traveling back to the almost simultaneous beginnings of aviation and rocketry, this analysis highlights the crucial names in the industry, honoring them with "The Wright Stuff" awards for their contributions. Illustrating how today's tickets to space have been made possible not just by entrepreneurs and engineers but also by the efforts of artists, regulators, politicians, and some of the earliest aviators, this exploration also touches on today's rapid expansion phase of Sir Richard Branson's Virgin Galactic space flights. Clearly depicting how a commercial business can emerge in this swiftly growing field, this unique investigation also provides examples of how space tourists are helping to create reusable technologies of benefit to all.

Using Medicine in Science Fiction

Mars Outpost provides a detailed insight into the various technologies, mission

architectures, medical requirements, and training needed to send humans to Mars. It focuses on mission objectives and benefits, and the risks and complexities that are compounded when linked to an overall planet exploration program involving several expeditions and setting up a permanent presence on the surface. The first section provides the background to sending a human mission to Mars. Analogies are made with early polar exploration and the expeditions of Shackleton, Amundsen, and Mawson. The interplanetary plans of the European Space Agency, NASA, and Russia are examined, including the possibility of one or more nations joining forces to send humans to Mars. Current mission architectures, such as NASA's Constellation, ESA's Aurora, and Ross Tierney's DIRECT, are described and evaluated. The next section looks at how humans will get to the Red Planet, beginning with the preparation of the crew. The author examines the various analogues to understand the problems Mars-bound astronauts will face. Additional chapters describe the transportation hardware necessary to launch 4-6 astronauts on an interplanetary trajectory to Mars, including the cutting edge engineering and design of life support systems required to protect crews for more than a year from the lethal radiation encountered in deep space. NASA's current plan is to use standard chemical propulsion technology, but eventually Mars crews will take advantage of advanced propulsion concepts, such as the Variable Specific Impulse Magnetoplasma Rocket, ion drives and nuclear propulsion. The interplanetary options for reaching Mars, as well as the major propulsive maneuvers required and the trajectories and energy requirements for manned and unmanned payloads, are

reviewed . Another chapter addresses the daunting medical problems and available countermeasures for humans embarking on a mission to Mars: the insidious effects of radiation on the human body and the deleterious consequences of bone and muscle deconditioning. Crew selection will be considered, bearing in mind the strong possibility that they may not be able to return to Earth. Still another chapter describes the guidance, navigation, and control system architecture, as well as the lander design requirements and crew tasks and responsibilities required to touch down on the Red Planet. Section 3 looks at the surface mission architectures. Seedhouse describes such problems as radiation, extreme temperatures, and construction challenges that will be encountered by colonists. He examines proposed concepts for transporting cargo and astronauts long distances across the Martian surface using magnetic levitation systems, permanent rail systems, and flying vehicles. In the penultimate chapter of the book, the author explains an adaptable and mobile exploration architecture that will enable long-term human exploration of Mars, perhaps making it the next space-based tourist location.

OECD Science, Technology and Innovation Outlook 2016

This book is based on the findings, conclusions and recommendations of the Global Space Governance study commissioned by the 2014 Montreal Declaration that called upon civil society, academics, governments, the private sector, and other

stakeholders to undertake an international interdisciplinary study. The study took three years to complete. It examines the drivers of space regulations and standards, key regulatory problems, and especially addresses possible improvements in global space governance. The world's leading experts led the drafting of chapters, with input from academics and knowledgeable professionals in the public and private sectors, intergovernmental organizations, and nongovernmental organizations from all the regions of the world with over 80 total participants. This book and areas identified for priority action are to be presented to the UN Committee on the Peaceful Uses of Outer Space and it is hoped will be considered directly or indirectly at the UNISPACE+50 event in Vienna, Austria, in 2018. The report, a collective work of all the contributors, includes objective analysis and frank statements expressed without pressure of political, national, and occupational concerns or interest. It is peer-reviewed and carefully edited to ensure its accuracy, preciseness, and readability. It is expected that the study and derivative recommendations will form the basis for deliberations and decisions at international conferences and meetings around the world on the theme of global space governance. This will hopefully include future discussion at the UN Committee on the Peaceful Uses of Outer Space.

Space, Propulsion & Energy Sciences International Forum

This guide to using computer technology for space exploration opens exciting new

worlds to home computer users. The CD-ROM includes software demos, shareware, images and a list of links to resources mentioned in the book.

Chemical Rocket Propulsion

Updated for the first time in a decade, a deluxe, three-volume encyclopedia covers the entire Star Wars universe, including everything having to do with the six films, radio dramas, books, comics, video games, and more, with information on the characters, production, special effects, chronology, and the like, all enhanced with full-color illustrations.

Near-Earth Laser Communications

German Journal of Air and Space Law

Veteran space journalist digs into the science and technology--past, present, and future--central to our explorations of Earth's only satellite, the space destination most hotly pursued today. In these rich pages, veteran science journalist Leonard David explores the moon in all its facets, from ancient myth to future "Moon Village" plans. Illustrating his text with maps, graphics, and photographs, David

offers inside information about how the United States, allies and competitors, as well as key private corporations like Moon Express and Jeff Bezos's Blue Origin, plan to reach, inhabit, and even harvest the moon in the decades to come. Spurred on by the Google Lunar XPRIZE--\$20 million for the first to get to the moon and send images home--the 21st-century space race back to the moon has become more urgent, and more timely, than ever. Accounts of these new strategies are set against past efforts, including stories never before told about the Apollo missions and Cold War plans for military surveillance and missile launches from the moon. Timely and fascinating, this book sheds new light on our constant lunar companion, offering reasons to gaze up and see it in a different way than ever before.

Physics of Electric Propulsion

The fully revamped and re-titled OECD Science, Technology and Innovation Outlook is a biennial publication that aims to inform policy makers and analysts on recent and future changes in global science, technology and innovation (STI) patterns and their potential implications.

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