Satellite Power Systems European Space Agency

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The Final Proceedings of the Solar Power Satellite Program Review, April 22-25, 1980, Lincoln, Nebraska - 1980

Space Safety Regulations and Standards - Joseph N. Pelton 2010-09-16
When international rules and regulations governing space travel were first being developed, only a few countries had any space presence and commercial space activity was non-existent. Today, over 50 countries have on-orbit satellites and commercial space presence is essential to commercial telecommunications and broadcasting, yet international space law remains in its infancy. Space Safety Regulations and Standards is the definitive book on regulatory initiatives involving space safety, new space safety standards, and safety related to new space technologies under development. More than 30 world experts come together in this book to share their detailed knowledge of regulatory and standard making processes in the area, combining otherwise disparate information into one essential reference and providing case studies to illustrate applications throughout space programs internationally. They address the international regulatory framework that relates to traditional space safety programs as well as the emerging regulatory framework that relates to commercial space programs, space tourism, and efforts to create commercial space station facilities. . Fully endorsed by the International Association for the Advancement of Space Safety (IAASS) and provides the only definitive reference on regulations and standards for the field of space safety Combines the technical, legal and regulatory information in a clear and integrated reference work suitable for technical professionals, regulators, legal experts, and students in the field Presents a truly global insight from experienced space safety experts worldwide, with representatives from the leading associations, institutions and companies operating in the arena today
NASA SP. - 1962

Proceedings - 1981

Information, Communication, and Space Technology - Mohammad Razani 2017-12-19
Many books have covered the rapidly evolving fields of information and communication technology (ICT) and space technology separately. However, no single book has ever focused on how the integration of these two areas is creating a stronger platform for various scientific advancements—including some research work that cannot be performed on Earth. To fill the void, Information, Communication, and Space Technology provides a novel illustration of that connection. Dividing content into sections that cover ICT, existing and future space technologies, and satellites, the author demonstrates the individual and combined power of each of these parts of the overall system. He explores how the combination of concepts from each of these interrelated fields is creating massive potential for broader advances in areas such as robotics, communications, navigation, agriculture, health care, and nanotechnology. The book introduces particular potential innovations, including "rocket-less" spacecraft launches, and development of a global system to balance energy distribution by using satellites that would collect solar energy and transmit it via microwave beams to different locations around the world. Equally useful to students and professionals, this work is a culmination of the domestic and international experience that the author has acquired throughout more than three decades as an instructor and researcher. Emphasizing the strong need to incorporate ICT and space technology into the general university curriculum, the book starts with basic explanations of key concepts and theories, building toward more concrete, application-oriented examples that reveal the importance and impact of new technologies. This includes coverage of how satellites transfer voice, video, and other data across continents, as well as techniques used to obtain very-high-resolution images from space for use in agricultural and environmental sciences.This timely work employs a logical, practically structured approach that will help readers to better understand existing and emerging ICT and space technologies, including the most recent developments and achievements in the field.
Safety Design for Space Systems - Gary E. Musgrave Ph.D 2009-03-27
Progress in space safety lies in the acceptance of safety design and engineering as an integral part of the design and implementation process for new space systems. Safety must be seen as the principle design driver of utmost importance from the outset of the design process, which is only achieved through a culture change that moves all stakeholders toward front-end loaded safety concepts. This approach entails a common understanding and mastering of basic principles of safety design for space systems at all levels of the program organisation. Fully supported by the International Association for the Advancement of Space Safety (IAASS), written by the leading figures in the industry, with frontline experience from projects ranging from the Apollo missions, Skylab, the Space Shuttle and the International Space Station, this book provides a comprehensive reference for aerospace engineers in industry. It addresses each of the key elements that impact on space systems safety, including: the space environment (natural and induced); human physiology in space; human rating factors; emergency capabilities; launch propellants and oxidizer systems; life support systems; battery and fuel cell safety; nuclear power generators (NPG) safety; habitat activities; fire protection; safety-critical software development; collision avoidance systems design; operations and on-orbit maintenance. * The only comprehensive space systems safety reference, its must-have status within space agencies and suppliers, technical and aerospace libraries is practically guaranteed * Written by the leading figures in the industry from NASA, ESA, JAXA, (et cetera), with frontline experience from projects ranging from the Apollo missions, Skylab, the Space Shuttle, small and large satellite systems, and the International Space Station. * Superb quality information for engineers, programme managers, suppliers and aerospace technologists; fully supported by the IAASS (International Association for the Advancement of Space Safety)
Space Station Systems - 1990

Space Power Systems - Nathan Snyder 2012-12-02
Space Power Systems covers systems based on the three primary sources of energy of practical value, namely, solar, nuclear, and chemical sources. This book is organized into four parts encompassing 32 chapters that also explore the requirements for space power. Part A presents the general aspects of solar cell power systems based on the work performed for US space vehicles that are to be placed in orbit. This part specifically considers a graph showing the variation of characteristic parameters of the solar cell

battery storage system as a function of flight altitude. Considerable chapters in this part are devoted to the solar cell power plant for the space vehicles ADVENT, RANGER, TIROS, and TRANSIT. The remaining chapters provide a detailed analysis of the physics and engineering of solar panel and solar mirror design. Part B contains a series of papers involving the various aspects of the Atomic Energy Commission SNAP (Systems for Nuclear Auxiliary Power) program. Many details are presented for the 3 kw, liquid metal, turbo-machinery SNAP II power systems covering subjects from the basic concept through vehicle integration and safety aspects. Significant chapters in this part discuss the compact and apparently highly reliable radioisotope thermoelectric generator. Part C highlights the methods of storing and expelling high energy cryogenic fuels, which can provide from two to five times more energy per unit weight than the silver-zinc primary battery. Part D provides an interesting and useful estimation of the many requirements that are likely to become firm for space vehicles. Space vehicle engineers, designers, and researchers will find this book invaluable.

What Does Space Exploration Do for Us? - Neil Morris 2011-07

Discusses the benefits of space exploration, including helping to understand the universe, the creation of satellites, and advances in computer technology.

The Final Proceedings of the Solar Power Satellite Program Review - Solar Power Satellite Program Review 1980

Solar World Forum - International Solar Energy Society. Congress 1982

Spacecraft Lithium-Ion Battery Power Systems - Thomas P. Barrera 2022-11-18

Spacecraft Lithium-Ion Battery Power Systems Provides Readers with a Better Understanding of the Requirements, Design, Test, and Safety Engineering of Spacecraft Lithium-ion Battery Power Systems Written by highly experienced spacecraft engineers and scientists working at the forefront of the aerospace industry, Spacecraft Lithium-Ion Battery Power Systems is one of the first books to provide a comprehensive treatment of the broad area of spacecraft lithium-ion battery (LIB) power systems technology. The work emphasizes the technical aspects across the entire lifecycle of spacecraft LIBs including the requirements, design, manufacturing, testing, and safety engineering principles needed to deploy a reliable spacecraft LIB-based electrical power system. A special focus on rechargeable LIB technologies as they apply to unmanned and crewed Earth-orbiting satellites, planetary mission spacecraft (such as orbiters, landers, rovers and probes), launch vehicle, and astronaut spacesuit applications is emphasized. Using a system’s engineering approach, the book bridges knowledge gaps that typically exist between academic and industry practitioners. Key topics of discussion and learning resources include: Detailed systematic technical treatment of spacecraft LIB-based electrical power systems across the entire LIB lifecycle Principles of lithium-ion cell and battery design and test, LIB sizing, battery management systems, electrical power systems, safety engineering, ground and launch-site processing, and on-orbit mission operations Special topics such as requirements engineering, qualification testing, thermal runaway hazards, dead bus events, life cycle testing and prediction analyses, on-orbit LIB power system management, and spacecraft EPS passivation strategies Comprehensive discussion of on-orbit and emerging space applications of LIBs supporting various commercial, civil, and government spacecraft missions such as International Space Station, Galileo, James Webb Telescope, Mars 2020 Perseverance Rover, Europa Clipper, Cubesats, and more Overall, the work provides professionals supporting all aspects of the aerospace marketplace with key knowledge and highly actionable information pertaining to LIBs and their specific applications in modern spacecraft systems.

Aerospace America - 1988

Large Space Structures and Systems in the Space Station Era: A Bibliography with Indexes (supplement 05) - 1993

Space Station Systems - 1986

Large Space Structures and Systems in the Space Station Era: A Bibliography with Indexes (supplement 04) - 1992

Large Space Structures & Systems in the Space Station Era - 1991

Energy: a Continuing Bibliography with Indexes - 1980

Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, San Diego, California, August 20-25, 1978 - 1978

Fundamental Planetary Science - Jack J. Lissauer 2019-07-04

A quantitative introduction to the Solar System and planetary systems science for advanced undergraduate students, this engaging textbook explains the wide variety of physical, chemical and geological processes that govern the motions and properties of planets. The authors provide an overview of our current knowledge and discuss some of the unanswered questions at the forefront of research in planetary science and astrobiology today. This updated edition contains the latest data, new references and planetary images and an extensively rewritten chapter on current research on exoplanets. The text concludes with an introduction to the fundamental properties of living organisms and the relationship that life has to its host planet. With more than 200 exercises to help students learn how to apply the concepts covered, this textbook is ideal for a one-semester or two-quarter course for undergraduate students.

Energy Research Abstracts - 1980-12

Handbook of Wind Power Systems - Panos M. Pardalos 2014-01-15

Wind power is currently considered as the fastest growing energy resource in the world. Technological advances and government subsidies have contributed in the rapid rise of Wind power systems. The Handbook on Wind Power Systems provides an overview on several aspects of wind power systems and is divided into four sections: optimization problems in wind power generation, grid integration of wind power systems, modeling, control and maintenance of wind facilities and innovative wind energy generation. The chapters are contributed by experts working on different aspects of wind energy generation and conversion.

ESA Bulletin - European Space Agency 2003

Energy - 1980

1978 NASA Authorization - United States. Congress. House. Committee on Science and Technology. Subcommittee on Space Science and Applications 1977

Scientific and Technical Aerospace Reports - 1992

Technology for Large Space Systems - 1982

Space Solar Power Review - 1980

International Aerospace Abstracts - 1998

Solar Energy Update - 1982

1978 NASA Authorization - United States. Congress. House. Committee on Science and Technology 1977

The International Politics of Space - Michael Sheehan 2007-10-15

The year 2007 saw the fiftieth anniversary of the Space Age, which began with the launching of Sputnik by

the Soviet Union in October 1957. Space is crucial to the politics of the postmodern world. It has seen competition and cooperation in the past fifty years, and is in danger of becoming a battlefield in the next fifty. The International Politics of Space is the first book to bring these crucial themes together and provide a clear and vital picture of how politically important space has become, and what its exploitation might mean for all our futures. Michael Sheehan analyzes the space programmes of the United States, Russia, China, India and the European Space Agency, and explains how central space has become to issues of war and peace, international law, justice and international development, and cooperation between the worlds leading states. It highlights the significance of China and India's commitment to space, and explains how the theories and concepts we use to describe and explain space are fundamental to the possibility of avoiding conflict in space in the future.

Safety Design for Space Operations - Firooz Allahdadi 2013-03-24

Endorsed by the International Association for the Advancement of Space Safety (IAASS) and drawing on the expertise of the world's leading experts in the field, Safety Design for Space Operations provides the practical how-to guidance and knowledge base needed to facilitate effective launch-site and operations safety in line with current regulations. With information on space operations safety design currently disparate and difficult to find in one place, this unique reference brings together essential material on: Best design practices relating to space operations, such as the design of spaceport facilities. Advanced analysis methods, such as those used to calculate launch and re-entry debris fall-out risk. Implementation of safe operation procedures, such as on-orbit space traffic management. Safety considerations relating to the general public and the environment in addition to personnel and asset protection. Taking in launch operations safety relating unmanned missions, such as the launch of probes and commercial satellites, as well as manned missions, Safety Design for Space Operations provides a comprehensive reference for engineers and technical managers within aerospace and high technology companies, space agencies, spaceport operators, satellite operators and consulting firms. Fully endorsed by the International Association for the Advancement of Space Safety (IAASS), with contributions from leading experts at NASA, the European Space Agency (EASA) and the US Federal Aviation Administration (FAA), amongst others Covers all aspects of space operations relating to safety of the general public, as well as the protection of valuable assets and the environment Focuses on launch operations safety relating to manned and unmanned missions, such as the launch of probes and commercial satellites

Technology for Large Space Systems: A Bibliography with Indexes (supplement 20) - United States. National Aeronautics and Space Administration. Scientific and Technical Information Division 1989

Measuring Space Power - Marco Aliberti 2019-08-02

This book provides an in-depth investigation of the concept of space power and devises a novel conceptual framework for empirically measuring and comparing different typologies of space actors on the basis of clearly defined criteria. In turn, the book identifies a comprehensive set of conditions required to achieve and maintain the status of space power and explores the main political, security, and socio-economic stakes involved. Building on this basis, the book conducts a comparative assessment of the major space actors, the underlying aim of which is to examine Europe's relative position in the space arena and put into perspective its proclaimed goal to assert itself as a space power, with all of the means and resources this would entail. Given its scope, the book represents a valuable and versatile tool to support European decision-making and offers key insights for executives, space professionals and scholars alike.

Energy Information Abstracts - 1980

Includes indexes.

Large Space Structures & Systems in the Space Station Era - 1993

Critical Space Infrastructures - Alexandru Georgescu 2019-03-25

This book introduces readers to the topical area of CSI: critical space infrastructure, which is defined as an emerging domain of systems-of-systems encompassing hardware, workforce, environment, facilities, business and organizational entities. Further, it includes unmanned air systems, satellites, rockets, space probes, and orbital stations, and involves multi-directional interactions essential for maintenance of vital societal functions (i.e., health, safety, economic and social well-being), the loss or disruption of which would have significant impact on virtually any nation. The topics covered include the main elements of CSI, CSI taxonomy, effects of CSI on other infrastructure systems, establishing quantitative and qualitative parameters, global and national effects of CSI failure, cascading disruptive phenomena, chilling effects in various fields, CSI protection, deliberate threats to space systems (e.g., electromagnetic pulse attacks), space governance, and a path forward for CSI research. Modern society is highly dependent on the continuous operation of critical infrastructure systems for the supply of crucial goods and services including, among others, the power supply, drinking water supply, and transportation systems; yet space systems – which are critical enablers for several commercial, scientific and military applications – are rarely discussed. This book addresses this gap.

Technology for Large Space Systems - 1987

Astronautics for Peace and Human Progress - L. G. Napolitano 2013-10-22

Astronautics for Peace and Human Progress contains the proceedings of the 29th Congress of the International Astronautical Federation held in Dubrovnik, Croatia, on October 1-8, 1978. The papers explore the role of astronautics in the pursuit of peace and human progress and cover topics ranging from space exploration and communication satellites to space technology and Earth exploration from space. This book is comprised of 32 chapters and opens with a discussion on space programs of countries such as the United States, Japan, Germany, USSR, and Italy. The following chapters focus on systems for space exploration such as SPACELAB and those associated with the Voyager program and the International Solar Polar Out-of-Ecliptic Mission. The evolution of Space Power Systems is also described, along with Earth exploration from space. Spaceborne sensors, automatic data analysis, and Landsat imagery are considered. The final two sections deal with communication satellites and space technology. This monograph will appeal to space scientists and astronautical engineers.