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Viorel Badescu

Benefits Stemming from Space Exploration Isecg, 2013-10-24

Fundamentals of Electric Propulsion Dan M. Goebel, Ira Katz, 2008-12-22 Throughout most of the twentieth century, electric propulsion was considered the technology of the future. Now, the future has arrived. This important new book explains the fundamentals of electric propulsion for spacecraft and describes in detail the physics and characteristics of the two major electric thrusters in use today, ion and Hall thrusters. The authors provide an introduction to plasma physics in order to allow readers to understand the models and derivations used in determining electric thruster performance. They then go on to present detailed explanations of: Thruster principles Ion thruster plasma generators and accelerator grids Hollow cathodes Hall thrusters Ion and Hall thruster plumes Flight ion and Hall thrusters Based largely on research and development performed at the Jet Propulsion Laboratory (JPL) and complemented with scores of tables, figures, homework problems, and references, Fundamentals of Electric Propulsion: Ion and Hall Thrusters is an indispensable textbook for advanced undergraduate and graduate students who are preparing to enter the aerospace industry. It also serves as an equally valuable resource for professional engineers already at work in the field.

Asteroids Viorel Badescu, 2013-07-03 The Earth has limited material and energy resources while these resources in space are virtually unlimited. Further development of humanity will require going beyond our planet and exploring of extraterrestrial resources and sources of unlimited power. Thus far, all missions to asteroids have been motivated by scientific exploration. However, given recent advancements in various space technologies, mining asteroids for resources is becoming ever more feasible. A significant portion of asteroids value is derived from their location; the required resources do not need to be lifted at a great expense from the surface of the Earth. Resources derived from Asteroid not only can be brought back to Earth but could also be used to sustain human exploration of space and permanent settlements in space. This book investigates asteroids' prospective energy and material resources. It is a collection of topics related to asteroid exploration, and utilization. It presents past and future technologies and solutions to old problems that could become reality in our life time. The book therefore is a great source of condensed information for specialists involved in current and impending asteroid-related activities and a good starting point for space researchers, inventors, technologists and potential investors. Written for researchers, engineers, and businessmen interested in asteroids' exploration and exploitation. Keywords: Asteroids, Asteroid exploration, Asteroid exploitation, Energy sources, Space Resources, Material Resources, In-Situ Resource Utilization, Mining

Planetary Protection Classification of Sample Return Missions from the Martian Moons European Science
Foundation, European Space Sciences Committee, National Academies of Sciences, Engineering, and Medicine, Division on
Engineering and Physical Sciences, Space Studies Board, Committee on Planetary Protection Requirements for Sample
Return Missions from Martian Moons, 2019-06-20 An international consensus policy to prevent the biological crosscontamination of planetary bodies exists and is maintained by the Committee on Space Research (COSPAR) of the
International Council for Science, which is consultative to the United Nations Committee on the Peaceful Uses of
Outer Space. Currently, COSPAR's planetary protection policy does not specify the status of sample-return missions
from Phobos or Deimos, the moons of Mars. Although the moons themselves are not considered potential habitats for
life or of intrinsic relevance to prebiotic chemical evolution, recent studies indicate that a significant amount
of material recently ejected from Mars could be present on the surface of Phobos and, to a lesser extent, Deimos.
This report reviews recent theoretical, experimental, and modeling research on the environments and physical
conditions encountered by Mars ejecta during certain processes. It recommends whether missions returning samples
from Phobos and/or Deimos should be classified as restricted or unrestricted Earth return in the framework of the
planetary protection policy maintained by COSPAR. This report also considers the specific ways the classification
of sample return from Deimos is a different case than sample return from Phobos.

Achieving Science with CubeSats National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Space Studies Board, Committee on Achieving Science Goals with CubeSats, 2016-11-06 Space-based observations have transformed our understanding of Earth, its environment, the solar system and the universe at large. During past decades, driven by increasingly advanced science questions, space observatories have become more sophisticated and more complex, with costs often growing to billions of dollars. Although these kinds of ever-more-sophisticated missions will continue into the future, small satellites, ranging in mass between 500 kg to 0.1 kg, are gaining momentum as an additional means to address targeted science questions in a rapid, and possibly more affordable, manner. Within the category of small satellites, CubeSats have emerged as a space-platform defined in terms of (10 cm x 10 cm x 10 cm)- sized cubic units of approximately 1.3 kg each called U's. Historically, CubeSats were developed as training projects to expose students to the challenges of real-world engineering practices and system design. Yet, their use has rapidly spread within academia, industry, and government agencies both nationally and internationally. In particular, CubeSats have caught the attention of parts of the U.S. space science community, which sees this platform, despite its inherent constraints, as a way to affordably access space and perform unique measurements of scientific value. The first science results from such CubeSats have only recently become available; however, questions remain regarding the scientific potential and technological promise of CubeSats in the future. Achieving Science with CubeSats reviews the current state of the scientific potential and technological promise of CubeSats. This report focuses on the platform's promise to obtain high- priority science data, as defined in recent decadal surveys in astronomy and astrophysics, Earth science and applications from space, planetary science, and solar and space physics (heliophysics); the science priorities identified in the 2014 NASA Science Plan; and the potential for CubeSats to advance biology and microgravity research. It provides a list of sample science goals for CubeSats, many of which address targeted science, often in coordination with other spacecraft, or use sacrificial, or high-risk, orbits that lead to the demise of the satellite after critical data have been collected. Other goals relate to the use of CubeSats as constellations or swarms deploying tens to hundreds of CubeSats that function as one distributed array of measurements.

Beyond Earth Asif A. Siddiqi,2018 This is a completely updated and revised version of a monograph published in 2002 by the NASA History Office under the original title Deep Space Chronicle: A Chronology of Deep Space and Planetary Probes, 1958-2000. This new edition not only adds all events in robotic deep space exploration after 2000 and up to the end of 2016, but it also completely corrects and updates all accounts of missions from 1958 to 2000--Provided by publisher.

Space Mining and Manufacturing Davide Sivolella, 2019-12-05 This book produces convincing evidence that

exploiting the potential of space could help solve many environmental and social issues affecting our planet, such as pollution, overcrowding, resource depletion and conflicts, economic inequality, social unrest, economic instability and unemployment. It also touches on the legal problems that will be encountered with the implementation of the new technologies and new laws that will need to be enacted and new organizations that will need to be formed to deal with these changes. This proposition for a space economy is not science fiction, but well within the remit of current or under development technologies. Numerous technologies are described and put together to form a coherent and feasible road map that, if implemented, could lead humankind towards a brighter future.

<u>Orbital Motion in Strongly Perturbed Environments</u> Daniel J. Scheeres, 2016-06-24 The investigation of minor solar system bodies, such as comets and asteroids, using spacecraft requires an understanding of orbital motion in strongly perturbed environments. The solutions to a wide range of complex and challenging problems in this field are reviewed in this comprehensive and authoritative work.

Satellite Orbits Oliver Montenbruck, Eberhard Gill, 2012-12-06 This modern presentation guides readers through the theory and practice of satellite orbit prediction and determination. Starting from the basic principles of orbital mechanics, it covers elaborate force models as well as precise methods of satellite tracking. The accompanying CD-ROM includes source code in C++ and relevant data files for applications. The result is a powerful and unique spaceflight dynamics library, which allows users to easily create software extensions. An extensive collection of frequently updated Internet resources is provided through WWW hyperlinks.

Solar and Space Physics National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee on a Decadal Strategy for Solar and Space Physics (Heliophysics), 2014-09-25 In 2010, NASA and the National Science Foundation asked the National Research Council to assemble a committee of experts to develop an integrated national strategy that would guide agency investments in solar and space physics for the years 2013-2022. That strategy, the result of nearly 2 years of effort by the survey committee, which worked with more than 100 scientists and engineers on eight supporting study panels, is presented in the 2013 publication, Solar and Space Physics: A Science for a Technological Society. This booklet, designed to be accessible to a broader audience of policymakers and the interested public, summarizes the content of that report.

<u>Spacecraft Attitude Determination and Control</u> J.R. Wertz, 2012-12-06 Roger D. Werking Head, Attitude Determination and Control Section National Aeronautics and Space Administration/ Goddard Space Flight Center Extensiye work has been done for many years in the areas of attitude determination, attitude prediction, and attitude control. During this time, it has been difficult to obtain reference material that provided a comprehensive overview of attitude support activities. This lack of reference material has made it difficult for those not intimately involved in attitude functions to become acquainted with the ideas and activities which are essential to understanding the various aspects of spacecraft attitude support. As a result, I felt the need for a document which could be used by a variety of persons to obtain an understanding of the work which has been done in support of spacecraft attitude objectives. It is believed that this book, prepared by the Computer Sciences Corporation under the able direction of Dr. James Wertz, provides this type of reference. This book can serve as a reference for individuals involved in mission planning, attitude determination, and attitude dynamics; an introductory textbook for stu dents and professionals starting in this field; an information source for experimen ters or others involved in spacecraft-related work who need information on spacecraft orientation and how it is determined, but who have neither the time nor the resources to pursue the varied literature on this subject; and a tool for encouraging those who could expand this discipline to do so, because much remains to be done to satisfy future needs.

Fundamentals of Spacecraft Attitude Determination and Control F. Landis Markley, John L. Crassidis, 2014-05-31 This book explores topics that are central to the field of spacecraft attitude determination and control. The authors provide rigorous theoretical derivations of significant algorithms accompanied by a generous amount of qualitative discussions of the subject matter. The book documents the development of the important concepts and methods in a manner accessible to practicing engineers, graduate-level engineering students and applied mathematicians. It includes detailed examples from actual mission designs to help ease the transition from theory to practice and also provides prototype algorithms that are readily available on the author's website. Subject matter includes both theoretical derivations and practical implementation of spacecraft attitude determination and control systems. It provides detailed derivations for attitude kinematics and dynamics and provides detailed description of the most widely used attitude parameterization, the quaternion. This title also provides a thorough treatise of attitude dynamics including Jacobian elliptical functions. It is the first known book to provide detailed derivations and explanations of state attitude determination and gives readers real-world examples from actual working spacecraft missions. The subject matter is chosen to fill the void of existing textbooks and treatises, especially in state and dynamics attitude determination. MATLAB code of all examples will be provided through an external website.

Hayabusa2 Asteroid Sample Return Mission Masatoshi Hirabayashi, Yuichi Tsuda, 2022-04-14 Hayabusa2 Asteroid Sample Return Mission: Technological Innovation and Advances covers the second Japanese asteroid sample return mission. The purpose of the mission is to survey the asteroid Ryugu's surface features, touch down on the asteroid, form an artificial crater by shooting an impactor, and collect sample materials. This book covers these operations, along with everything known about key technologies, hardware and ground systems upon Hayabusa2's return to Earth in 2020. This book is the definitive reference on the mission and provides space and planetary scientists with information on established technologies to further advance the knowledge and technologies in future space exploration missions. 2023 PROSE Awards - Winner: Finalist: Chemistry, Physics, Astronomy, and Cosmology: Association of American Publishers Broadly and comprehensively covers technologies necessary for space exploration missions Provides a unique focus on small body exploration missions Covers landing and impact experiments during the proximity operations of Hayabusa2

Asteroids IV Patrick Michel, Francesca E. DeMeo, William F. Bottke, 2015-12-31 More than forty chapters detail our current astronomical, compositional, geological, and geophysical knowledge of asteroids, as well as their unique physical processes and interrelationships with comets and meteorites--Provided by publisher.

Theory of Reflectance and Emittance Spectroscopy Bruce Hapke, 2012-01-19 An essential reference for researchers and students of planetary remote sensing on the interaction of electromagnetic radiation with planetary surfaces.

Fundamental Planetary Science lack 1 Lissauer Take de Pater 2013-09-09 A quantitative introduction to the Sola

Fundamental Planetary Science Jack J. Lissauer, Imke de Pater, 2013-09-09 A quantitative introduction to the Solar System and planetary systems science for advanced undergraduate students, this engaging new 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. They combine knowledge of the Solar System and the properties of extrasolar planets with astrophysical observations of ongoing star and planet formation, offering a comprehensive model for understanding the origin of planetary systems. The book 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.

The International Handbook of Space Technology Malcolm Macdonald, Viorel Badescu, 2014-07-08 This comprehensive handbook provides an overview of space technology and a holistic understanding of the system-of-systems that is a modern spacecraft. With a foreword by Elon Musk, CEO and CTO of SpaceX, and contributions from globally leading agency experts from NASA, ESA, JAXA, and CNES, as well as European and North American academics and industrialists, this handbook, as well as giving an interdisciplinary overview, offers, through individual self-contained chapters, more detailed understanding of specific fields, ranging through: · Launch systems, structures, power, thermal, communications, propulsion, and software, to · entry, descent and landing, ground segment, robotics, and data systems, to · technology management, legal and regulatory issues, and project management. This handbook is an equally invaluable asset to those on a career path towards the space industry as it is to those already within the industry.

<u>Motorcycle Handling and Chassis Design</u> Tony Foale, 2006

Encyclopedia of Planetary Landforms Henrik Hargitai, Ákos Kereszturi, 2015-08-15 The technique of the mapping of planetary surfaces and the methods used for the identification of various planetary landforms improved much in the last 400 years. Until the 20th century, telescopic observers could interpret planetary landforms solely based on their appearance, while today various data sets acquired by space probes can be used for a more detailed analysis on the composition and origin of the surface features. Before the Greeks, the Earth and the Heavens were indisputably of different origin and nature. It was a major philosophical breakthrough - first appeared as an a priori theory, later based on observations - that the Heavens (planetary bodies) and the Earth share common features: gravity, composition and solar distance may be different, but the nature of the physical processes shaping the landforms are essentially the same. It has been a long way since we have arrived from the first telescopic description of lunar craters to the identification of various geological formations on Mars or on minor planets. Relief features of the Moon have first been observed by Galileo Galilee, via his telescope. During the next centuries, a multitude of Lunar landforms have been identified. Theories based on observations have been connected together by a scientific paradigm which explained their origin in a logical and seemingly undisputable manner. Telescopes showed a Lunar surface full of circular landforms, called craters, a landscape with no parallel on Earth. But the individual landforms had a morphological equivalent, volcanoes, which naturally led to the conclusion that craters had been created by volcanic processes. Maria (seas) served as natural basins for water bodies. Observations clearly showed that water and air are hardly found on the Moon, the lack of clouds indicated the lack of precipitation. But the flat surface of the maria (obviously composed of marine sediments) and the meandering valleys suggested the presence of liquid water and a higher atmospheric pressure in the past - during the age of active volcanism and degassing. There were no observable active volcanic processes but some craters (though to be volcanoes) have been observed as being active: flashes of light - interpreted as eruptions - have been reported by several observers. The presence of pyroclasts thrown out from the volcanic vents of craters provided an independent evidence: meteor showers and individual meteorites falling from the sky - originating from Lunar craters. The logical and interconnected set of explanations based on observations proved to be completely false by the second half of the 20th century. The new paradigm interpreted the very same features in a new context. The case of Mars was different. There were no telescopes capable of observing relief forms (no shadows on Mars are visible from the Earth, because Mars always shows a nearly full Mars phase), so only albedo features could be seen and used for interpretation. The lack of visible relief features were interpreted as a lack of considerable topography: an unnoticed distortion in the observational data. The hue and contrast of dark and bright, orange, grey and white spots have changed seasonally, the polar areas clearly showed a polar cap made of ice and snow, but clouds have not been observed. Since Mars is farther away from the Sun than the Earth, it was evident that temperature values are lower there. Scientists concluded that Mars is an ancient, arid world. Then contemporary geology taught the theory according to which waters on the Earth are going to infiltrate underground in time, making the surface dry - observations showed that this had already happened on Mars. The last surface reservoirs of water were the polar caps. Some observers reported seeing a global network of linear features, but other have only seen very few of such albedo markings. These features were interpreted as canals, made by a civilization for irrigation, carrying water from the poles to all around the flat plains of Mars. What was observable from the Earth were the broad stripes of irrigated vegetation (like those along the Nile), the canals themselves were too narrow to be visible from here. All theories converged - supposing that the features seen by some, but not seen by others, were real. There was no chance for verification until spacecrafts have been developed which were able to make local observations. Instead of canals, the first pictures returned revealed a surface full of craters - a landform not expected by anyone. A paradigm shift was needed to explain the features of the new Mars. On the Moon, features were observable, but the interpretation was wrong. On Mars, only blurred albedo markings could be observed, along with sharp lines of imagination, which again were interpreted falsely. In the case of Venus, there was no data on surface features. Only its bright cloud top could be observed from the Earth. But this fact along with the planet's orbital parameters provided enough information for a popular view on its surface conditions: a hot world (inferred from its proximity to the Sun) and also a rainy one (from its complete cloud cover). The conclusion: Venus is a global jungle possibly with dinosaurs, like the hot and wet world of the then-discovered Mesozoic era. Our current knowledge originated from these early attempts of interpreting surface conditions and geological origin of landforms from a very little set of available data. Today we have a huge set of images and other physical data which makes it possible to create models on the inner structure and thermal history of planetary bodies. Combined data sets lead to better supported models on the formation of surface features. Today we believe that most models give reliable explanation for the origin of planetary landforms. New, higher resolution images reveal new sets of meso- and microscale landforms, while images from previously not imaged dwarf planets, satellites, asteroids and cometary nuclei show landforms never seen before. In the future exoplanets are expected to provide brand new types of relief features no predictable by our

Earth-and Solar System bound imagination. There are so many different landforms on planetary surfaces that it is nearly impossible for anybody to overview all of them who does not work exactly with that certain feature type. The Encyclopedia helps with presenting the landforms in searchable, alphabetical order. The book contains more than a simple list of various features: it provides context and connections between them and point to their origin. For example sand dunes were found on Venus, Mars and Titan, fluvial valleys and shorelines are present on Mars and Titan, impact craters have many different types - all are presented and explained here. Beyond the texts, references, schematic figures, images and planetary maps accompany the description of landforms, providing a wide background for detailed analyses even for geomorphologists working in planetary science. This book is to help the reader to discover the great variety of planetary landforms.

50 Years of Solar System Exploration Linda Billings, 2020 To commemorate the 50th anniversary of the first successful planetary mission, Mariner 2 sent to Venus in 1962, the NASA History Program Office, the Division of Space History at the National Air and Space Museum, NASA's Science Mission Directorate, and the Jet Propulsion Laboratory organized a symposium. Solar System Exploration @ 50 was held in Washington, D.C., on 25-26 October 2012. The purpose of this symposium was to consider, over the more than 50-year history of the Space Age, what we have learned about the other bodies of the solar system and the processes by which we have learned it. Symposium organizers asked authors to address broad topics relating to the history of solar system exploration such as various flight projects, the development of space science disciplines, the relationship between robotic exploration and human spaceflight, the development of instruments and methodologies for scientific exploration, as well as the development of theories about planetary science, solar system origins and implications for other worlds. The papers in this volume provide a richly textured picture of important developments - and some colorful characters - in a half century of solar system exploration. A comprehensive history of the first 50 years of solar system exploration would fill many volumes. What readers will find in this volume is a collection of interesting stories about money, politics, human resources, commitment, competition and cooperation, and the faster, better, cheaper era of solar system exploration--

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