

Planetary Sciences

Nuclear Planetary Science: Planetary Science Based On Gamma-ray, Neutron And X-ray Spectroscopy Nobuyuki Hasebe, Kyeong Ja Kim, Kunitomo Sakurai, Eido Shibamura. 2017-09-25

Nuclear planetary science has come to play an important role in our understanding of the origin and evolution of the planetary bodies in our solar system. A newly established branch of planetary science, its study aids in humankind's exploration of the present states of the structures of various planetary bodies (including the Earth), their atmospheres and their satellites, as well as small celestial bodies (e.g. asteroids), through direct observation. Knowing the elemental composition of the planetary bodies is essential in order to understand the formation and evolution of planetary bodies — just as important as it is to know the mass, radius, density and orbit of the celestial body. Suitable for students and specialists interested in the much wider field of Earth and Planetary Science, topics related to the planets and asteroids in the solar system are dealt with in this book. Techniques related to nuclear planetary science's nuclear cosmochemical and geological methods are also covered in this book.

Planetary Geoscience Harry Y. McSween, Jr., Jeffrey E. Moersch, Devon M. Burr, Joshua P. Emery. 2019-07-11 The ideal textbook resource to support a one-semester capstone course in planetary processes for geoscience undergraduates.

Gerard P. Kuiper and the Rise of Modern Planetary Science Derek W. G. Sears. 2019 A balanced biography of Gerard P. Kuiper and his critical role in the emergence of modern planetary science--Provided by publisher.

Planetary Astrobiology Victoria Meadows, Giada Arney, Britney Schmidt, David J. Des Marais. 2020-06-16 Are we alone in the universe? How did life arise on our planet? How do we search for life beyond Earth? These profound questions excite and intrigue broad cross sections of science and society. Answering these questions is the province of the emerging, strongly interdisciplinary field of astrobiology. Life is inextricably tied to the formation, chemistry, and evolution of its host world, and multidisciplinary studies of solar system worlds can provide key insights into processes that govern planetary habitability, informing the search for life in our solar system and beyond. Planetary Astrobiology brings together current knowledge across astronomy, biology, geology, physics, chemistry, and related fields, and considers the synergies between studies of solar systems and exoplanets to identify the path needed to advance the exploration of these profound questions. Planetary Astrobiology represents the combined efforts of more than seventy-five international experts consolidated into twenty chapters and provides an accessible, interdisciplinary gateway for new students and seasoned researchers who wish to learn more about this expanding field. Readers are brought to the frontiers of knowledge in astrobiology via results from the exploration of our own solar system and exoplanetary systems. The overarching goal of Planetary Astrobiology is to enhance and broaden the development of an interdisciplinary approach across the astrobiology, planetary science, and exoplanet communities, enabling a new era of comparative planetology that encompasses conditions and processes for the emergence, evolution, and detection of life.

Planetary Surface Processes H. Jay Melosh. 2011-08-25 Planetary Surface Processes is the first advanced textbook to cover the full range of geologic processes that shape the surfaces of planetary-scale bodies. Using a modern, quantitative approach, this book reconsiders geologic processes outside the traditional terrestrial context. It highlights processes that are contingent upon Earth's unique circumstances and processes that are universal. For example, it shows explicitly that equations predicting the velocity of a river are dependent on gravity: traditional geomorphology textbooks fail to take this into account. This textbook is a one-stop source of information on planetary surface processes, providing readers with the necessary background to interpret new data from NASA, ESA and other space missions. Based on a course taught by the author at the University

of Arizona for 25 years, it is aimed at advanced students, and is also an invaluable resource for researchers, professional planetary scientists and space-mission engineers.

An Outline of Planetary Geoscience Lyndon B. Johnson Space Center. Planetary and Earth Sciences Division. 1977

Introductory Notes on Planetary Science Colette Salyk, Kevin Lewis. 2020 Planets come in many different sizes, and with many different compositions, orbiting our Sun and countless other stars. Understanding their properties and interactions requires an understanding of a diverse set of sub-fields, including orbital and atmospheric dynamics, geology, geophysics, and chemistry. This textbook provides a physics-based tour of introductory planetary science concepts for undergraduate students majoring in astronomy, planetary science, or related fields. It shows how principles and equations learned in introductory physics classes can be applied to study many aspects of planets, including dynamics, surfaces, interiors, and atmospheres. It also includes chapters on the discovery and characterization of extrasolar planets, and the physics of planet formation. Key Features Covers a wide range of planetary science topics at an introductory level Coherently links the fields of solar system science, exoplanetary science, and planet formation Each chapter includes homework questions Includes python templates for reproducing and customizing the figures in the book

Planetary Sciences Imke de Pater, Jack J. Lissauer. 2015-01-29 An authoritative introduction for graduate students in the physical sciences, this award-winning textbook explains the wide variety of physical, chemical, and geological processes that govern the motions and properties of planets. This updated second edition has been revised and improved while maintaining its existing structure and organization. Many data tables and plots have been updated to account for the latest measurements. A new Appendix focuses on recent discoveries since the second edition was first published. These include results from Cassini, Kepler, MESSENGER, MRO, LRO, Dawn at Vesta, Curiosity, and others, as well as many ground-based observatories. With over 300 exercises to help students apply the concepts covered, this textbook is ideal for graduate courses in astronomy, planetary science and earth science, and well suited as a reference for researchers. Color versions of many figures, movie clips supplementing the text, and other resources are available at www.cambridge.org/depater.

Review of the Restructured Research and Analysis Programs of NASA's Planetary Science Division National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Space Studies Board, Committee on the Review of NASA's Planetary Science Division's Restructured Research and Analysis Program. 2017-07-22 The Research and Analysis (R&A) program managed by NASA's Planetary Science Division (PSD), supports a broad range of planetary science activities, including the analysis of data from past and current spacecraft; laboratory research; theoretical, modeling, and computational studies; geological and astrobiological fieldwork in planetary analog environments on Earth; geological mapping of planetary bodies; analysis of data from Earth- and space-based telescopes; and development of flight instruments and technology needed for future planetary science missions. The primary role of the PSD R&A program is to address NASA's strategic objective for planetary science and PSD's science goals. Recently, PSD reorganized the R&A program to provide better alignment with the strategic goals for planetary sciences. The major changes in the R&A program involved consolidating a number of prior program elements, many of which were organized by subdiscipline, into a smaller number of thematic core research program elements. Despite numerous efforts by PSD to communicate the rationale for the reorganization and articulate clearly the new processes, there has been significant resistance from the planetary science community and concerns in some sectors regarding the major realignment of funding priorities. Review of NASA's Planetary Science Division's Restructured Research and Analysis Programs examines the new R&A program and determines if it appropriately aligns with the agency's strategic goals, supports existing flight programs, and enables future missions. This report explores whether any specific research areas or subdisciplinary groups that are critical to NASA's strategic objectives for planetary science and PSD's science goals are not supported appropriately in the current program or have been inadvertently disenfranchised through the

reorganization.

Machine Learning for Planetary Science Joern Helbert, Mario D'Amore, Michael Aye, Hannah Kerner. 2022-03-22 Machine Learning for Planetary Science presents planetary scientists with a way to introduce machine learning into the research workflow as increasingly large nonlinear datasets are acquired from planetary exploration missions. The book explores research that leverages machine learning methods to enhance our scientific understanding of planetary data and serves as a guide for selecting the right methods and tools for solving a variety of everyday problems in planetary science using machine learning. Illustrating ways to employ machine learning in practice with case studies, the book is clearly organized into four parts to provide thorough context and easy navigation. The book covers a range of issues, from data analysis on the ground to data analysis onboard a spacecraft, and from prioritization of novel or interesting observations to enhanced missions planning. This book is therefore a key resource for planetary scientists working in data analysis, missions planning, and scientific observation. Includes links to a code repository for sharing codes and examples, some of which include executable Jupyter notebook files that can serve as tutorials. Presents methods applicable to everyday problems faced by planetary scientists and sufficient for analyzing large datasets. Serves as a guide for selecting the right method and tools for applying machine learning to particular analysis problems. Utilizes case studies to illustrate how machine learning methods can be employed in practice.

Fundamental Planetary Science Jack J. Lissauer. 2013

Space Technology & Planetary Astronomy Joseph N. Tatarewicz. 1990 ... the book reminds us of an important lesson in the postwar era of big science: that government policy may lead initially to tremendous support for various fields of science and technology. --Science ... a triumph of historical analysis. --Choice This is an excellent record of the beginnings of the NASA planetary astronomy program in the years 1958-70. --American Historical Review The historical circumstances that led to this country's great leap into space were unique, but it is clear that there are many lessons to be learnt from this enthralling tale and Tatarewicz tells the tale well. --Annals of Science When NASA went looking for expertise on the moon and planets following Sputnik, they found that astronomers had long since turned their telescopes away from our planets and toward the stars. Where were the scientists who could help the United States explore the solar system? The answer, as this important new study shows, was that NASA had to create them. This story of the precipitous rise and decline of planetary astronomy is an important case study of science in an age of state-managed research and development. It demonstrates that the lines between science, technology, politics, and society are anything but fixed and impermeable.

The Planetary Scientist's Companion Katharina Lodders, Bruce Fegley Jr.. 1998-12-10 Scientists have collected a wealth of physical and chemical data for the Sun, planets, and small bodies in our solar system, but until now this information has been scattered throughout the technical literature. The Planetary Scientist's Companion solves this problem, providing for the first time a single, extensive reference for the interdisciplinary fields of planetary science and cosmochemistry. The book begins with a summary of frequently used physical and chemical constants, unit conversion factors, properties of some compounds and minerals, thermodynamic data, partition coefficients, and useful formulas. This is followed by an overview of the solar system, including comparative data for the planets and their satellites and abundances of the elements. Much of the book is devoted to a series of chapters describing in turn the Sun, each of the planets, and the groups of small bodies (asteroids, comets, meteorites, and Kuiper Belt and Centaur objects). Each chapter includes an introduction, followed by tables of physical and chemical properties compiled from many sources, including data on planetary atmospheres, surfaces, and interiors. The book concludes with data on nearby stars, the interstellar medium, and recently discovered brown dwarfs and possible extrasolar planets, followed by a glossary. A unique and practical resource for anyone interested in contemporary planetary science and cosmochemistry, this volume is likely to be an essential tool in future research.

[Planetesimals](#) Linda T. Elkins-Tanton, Benjamin P. Weiss. 2017-01-26 16.3 Planetesimals and

Planetary Debris Disks

Planets and Their Atmospheres John S. Lewis, Ronald G. Prinn. 2013-10-22 This work is addressed to advanced undergraduate and graduate students in astronomy, geology, chemistry, meteorology, and the planetary sciences as well as to researchers with pertinent areas of specialization who desire an introduction to the literature across the broad interdisciplinary range of this important topic. Extensive references to the pre-spacecraft literature will be particularly useful to readers interested in the historical development of the field during this century.

Introduction to Planetary Science Gunter Faure, Teresa M. Mensing. 2007-05-04 This textbook details basic principles of planetary science that help to unify the study of the solar system. It is organized in a hierarchical manner so that every chapter builds upon preceding ones. Starting with historical perspectives on space exploration and the development of the scientific method, the book leads the reader through the solar system. Coverage explains that the origin and subsequent evolution of planets and their satellites can be explained by applications of certain basic principles of physics, chemistry, and celestial mechanics and that surface features of the solid bodies can be interpreted by principles of geology.

The Earth Minoru Ozima, Jun Korenaga, Qing-Zhu Yin. 2012-04-12 An accessible exploration of Earth's evolution and the underlying physical and chemical principles, for students, professionals and general readers.

Planetary Rings Larry W. Esposito. 2014-03-06 Fully updated and expanded, this new edition presents a cutting-edge summary of planetary rings, including results from Cassini's Saturn System, Equinox and Solstice missions, and the New Horizons flyby of Jupiter. The book introduces basic physical processes and simple mathematical approaches in an accessible manner, including N-body and stochastic models of ring dynamics. Further revised chapters present highlighted topics including Saturn's F ring, Uranus' rings and moons, Neptune's partial rings, dusty rings, and Jupiter's ring-moon system after Galileo and New Horizons. Cassini results are fully integrated throughout, including new images in color, and a new Afterword links ring images in the Cassini 'Hall of Fame' gallery to the relevant explanation in the text. An online cache of images and videos from NASA's collection makes it easy to locate relevant and beautiful illustrative materials. This is a key resource for students, researchers and professionals in planetary science, astronomy and space-mission research.

Cathodoluminescence and its Application in the Planetary Sciences Arnold Gucsik. 2008-11-14 Cathodoluminescence microscopy/spectroscopy is a powerful technique providing detailed information on the shock metamorphism of target rocks, biosignatures of meteorites and mineralogy of the pre-solar grains. Moreover, it can be used as an in-situ method to classify the solid-atmospheric-liquid interactions on the surface of Mars.

High Pressure Geochemistry & Mineral Physics S. Mitra. 2004-12-11 Significant achievements have been made at the cross-roads of physics and planetary science. In the second half of the twentieth century, the discipline of planetary sciences has witnessed three major episodes which have revolutionized its approach and content: (i) the plate-tectonic theory, (ii) human landing and discoveries in planetary astronomy and (iii) the extraordinary technical advancement in high P-T studies, which have been abetted by a vast improvement in computational methods. Using these new computational methods, such as first principles including ab initio models, calculations have been made for the electronic structure, bonding, thermal EOS, elasticity, melting, thermal conductivity and diffusivity. In this monograph, the boundaries of the definitions of a petrologist, geochemist, geophysicist or a mineralogist have been willfully eliminated to bring them all under the spectrum of high-pressure geochemistry when they deal with any material (quintessentially a chemical assemblage) - terrestrial or extraterrestrial - under the conditions of high-pressure and temperature. Thus, a petrologist using a spectrometer or any instrument for high-pressure studies of a rock or a mineral, or a geochemist using them for chemical synthesis and characterization, is better categorized as a high-pressure geochemist rather than any other kind of disciplinarian. The contents of this monograph bring together, under one cover, apparently disparate disciplines like solid-earth

geophysics and geochemistry as well as material science and condensed-matter physics to present a thorough overview of high pressure geochemistry. Indeed, such interdisciplinary activities led to the discovery of new phenomena such as high P-T behaviour in metal oxides (e.g. Mott transition), novel transitions such as amorphization, changes in order-disorder in crystals and the anomalous properties of oxide melts.

Planetary Science (PS) Anil Bhardwaj, Kenji Satake. 2011-07-13 This invaluable volume set of *Advances in Geosciences* continues the excellent tradition of the Asia-Oceania scientific community in providing the most up-to-date research results on a wide range of geosciences and environmental science. The information is vital to the understanding of the effects of climate change, extreme weathers on the most populated regions and fastest moving economies in the world. Besides, these volumes also highlight original papers from many prestigious research institutions which are conducting cutting edge studies in atmospheric physics, hydrological science and water resource, ocean science and coastal study, planetary exploration and solar system science, seismology, tsunamis, upper atmospheric physics and space science.

An Introduction to the Solar System David A. Rothers, Neil McBride, Iain Gilmour. 2018-01-11 Ongoing advances in Solar System exploration continue to reveal its splendour and diversity in remarkable detail. This undergraduate-level textbook presents fascinating descriptions and colour images of the bodies in the Solar System, the processes that occur upon and within them, and their origins and evolution. It highlights important concepts and techniques in boxed summaries, while questions and exercises are embedded at appropriate points throughout the text, with full solutions provided. Written and edited by a team of practising planetary scientists, this third edition has been updated to reflect our current knowledge. It is ideal for introductory courses on the subject, and is suitable for self-study. The text is supported by online resources, hosted at www.cambridge.org/solarsystem3, which include selected figures from the book, self-assessment questions and sample tutor assignments, with outlines of suggested answers.

Solar Planetary Systems Asit B. Bhattacharya, Jeffrey M. Lichtman. 2016-11-25 The authors have put forth great efforts in gathering present day knowledge about different objects within our solar system and universe. This book features the most current information on the subject with information acquired from noted scientists in this area. The main objective is to convey the importance of the subject and provide detailed information on the physical makeup of our planetary system and technologies used for research. Information on educational projects has also been included in the Radio Astronomy chapters. This information is a real plus for students and educators considering a career in Planetary Science or for increasing their knowledge about our planetary system.

Remote Compositional Analysis Janice L. Bishop, James F. Bell III, Jim Bell, Jeffrey E. Moersch. 2019-11-28 Comprehensive overview of the spectroscopic, mineralogical, and geochemical techniques used in planetary remote sensing.

Encyclopedia of Planetary Sciences J.H. Shirley, Rhodes W. Fairbridge. 1997-06-30 Planetary science is a truly multidisciplinary subject. The book deals with the atmospheres, surfaces and interiors of the planets and moons, and with the interplanetary environment of plasma and fields, as well as with asteroids and meteorites. Processes such as accretion, differentiation, thermal evolution, and impact cratering form another category of entries. Remote sensing techniques employed in investigation and exploration, such as magnetometry, photometry, and spectroscopy are described in separate articles. In addition, the Encyclopedia chronicles the history of planetary science, including biographies of pioneering scientists, and detailed descriptions of all major lunar and planetary missions and programs. The Encyclopedia of Planetary Sciences is superbly illustrated throughout with over 450 line drawings, 180 black and white photographs, and 63 color illustrations. It will be a key reference source for planetary scientists, astronomers, and workers in related disciplines such as geophysics, geology, and the atmospheric sciences.

Heliophysics: Active Stars, their Astrospheres, and Impacts on Planetary Environments Carolus J. Schrijver, Frances Bagenal, Jan J. Sojka. 2016-03-17 Heliophysics is a fast-developing

scientific discipline that integrates studies of the Sun's variability, the surrounding heliosphere, and the environment and climate of planets. This volume, the fourth in the Heliophysics collection, explores what makes the conditions on Earth 'just right' to sustain life, by comparing Earth to other solar system planets, by comparing solar magnetic activity to that of other stars, and by looking at the properties of evolving exoplanet systems. By taking an interdisciplinary approach and using comparative heliophysics, the authors illustrate how we can learn about our local cosmos by looking beyond it, and in doing so, also enable the converse. Supplementary online resources are provided, including lecture presentations, problem sets and exercise labs, making this ideal as a textbook for advanced undergraduate- and graduate-level courses, as well as a foundational reference for researchers in the many subdisciplines of helio- and astrophysics.

Planetary Science George H. A. Cole, Michael M. Woolfson. 2002-04-01 There are many planetary systems other than our own, but it is only through a detailed understanding of the relatively accessible bodies in our solar system that a thorough appreciation of planetary science can be gained. This is particularly pertinent with the recent discovery of extra-solar planets and the desire to understand their formation and the prospect of life on other worlds. *Planetary Science: The Science of Planets Around Stars* focuses on the structure of planets and the stars they orbit and the interactions between them. The book is written in two parts, making it suitable for students at different levels and approaching planetary science from differing backgrounds. Twelve independent descriptive chapters reveal our solar system and the diverse bodies it contains, including satellites, planetary rings, asteroids, comets, meteorites, and interstellar dust. These chapters are accompanied by 42 detailed topics that discuss specialized subjects in a quantitative manner and will be essential reading for those in higher level courses. Coverage includes mineralogy, stellar formation and evolution, solar system dynamics, atmospheric physics, planetary interiors, thermodynamics, planetary astrophysics, and exobiology. Problems and answers are also included. *Planetary Science: The Science of Planets Around Stars* presents a complete overview of planetary science for students of physics, astronomy, astrophysics, earth sciences, and geophysics. Assuming no prior knowledge of astrophysics or geophysics, this book is suitable for students studying planetary science for the first time.

Planetary Geology Angelo Pio Rossi, Stephan van Gasselt. 2017-11-28 This book provides an up-to-date interdisciplinary geoscience-focused overview of solid solar system bodies and their evolution, based on the comparative description of processes acting on them. Planetary research today is a strongly multidisciplinary endeavor with efforts coming from engineering and natural sciences. Key focal areas of study are the solid surfaces found in our Solar System. Some have a direct interaction with the interplanetary medium and others have dynamic atmospheres. In any of those cases, the geological records of those surfaces (and sub-surfaces) are key to understanding the Solar System as a whole: its evolution and the planetary perspective of our own planet. This book has a modular structure and is divided into 4 sections comprising 15 chapters in total. Each section builds upon the previous one but is also self-standing. The sections are: Methods and tools Processes and Sources Integration and Geological Syntheses Frontiers The latter covers the far-reaching broad topics of exobiology, early life, extreme environments and planetary resources, all areas where major advancements are expected in the forthcoming decades and both key to human exploration of the Solar System. The target readership includes advanced undergraduate students in geoscience-related topics with no specific planetary science knowledge; undergraduates in other natural science domains (e.g. physics, astronomy, biology or chemistry); graduates in engineering and space systems design who want to complement their knowledge in planetary science. The authors' backgrounds span a broad range of topics and disciplines: rooted in Earth geoscience, their expertise covers remote sensing and cartography, field mapping, impact cratering, volcanology and tectonics, sedimentology and stratigraphy exobiology and life in extreme environments, planetary resources and mining. Several generations of planetary scientists are cooperating to provide a modern view on a discipline developed from Earth during and through Space exploration.

Planetary Science (PS) and Solar & Terrestrial Science (ST) Anil Bhardwaj. 2012 This

invaluable volume set of *Advances in Geosciences* continues the excellent tradition of the Asia-Oceania scientific community in providing the most up-to-date research results on a wide range of geosciences and environmental science. The information is vital to the understanding of the effects of climate change and extreme weather on the most populated regions and fastest moving economies in the world. Besides, these volumes also highlight original papers from many prestigious research institutions which are conducting cutting-edge studies in atmospheric physics, hydrological science and water resource, ocean science and coastal study, planetary exploration and solar system science, seismology, tsunamis, upper atmospheric physics and space science.

Planetary Geodesy and Remote Sensing Shuanggen Jin.2014-10-22 Although lunar exploration began in the 1960s, the moon and other planets have many long-standing, unanswered questions about planetary environments, origin, formation and evolution, magnetization of crustal rocks, internal structure, and possible life. However, with the recent development of planetary geodesy and remote sensing with higher spatial and spectral resolution have come new opportunities to explore and understand the moon and planets in greater detail. Written by well-established, international scientists in the planetary science and remote sensing fields, *Planetary Geodesy and Remote Sensing* presents the latest methods and techniques of planetary geodesy and remote sensing. The book discusses the latest results in planetary science, including theory, methods, measurements, topography, gravity and magnetic field, atmosphere and ionosphere, geomorphology, volcano, craters, internal structure, and water. The book also highlights comparative studies with the earth in the atmosphere, geomorphology, and interiors of the planets. It discusses future missions and future objectives of planetary exploration and science using the latest advances in remote sensing. With chapters contributed by a stellar list of pioneers and experts, the book provides new insight on the application of new technologies and the observations in planetary geodesy. It is suitable for those working in the field as well as for planetary probe designers, engineers, and planetary geologists and geophysicists.

Planetary Exploration and Science: Recent Results and Advances Shuanggen Jin,Nader Haghighipour,Wing-Huen Ip.2014-11-27 This contributed monograph is the first work to present the latest results and findings on the new topic and hot field of planetary exploration and sciences, e.g., lunar surface iron content and mare orientale basalts, Earth's gravity field, Martian radar exploration, crater recognition, ionosphere and astrobiology, Comet ionosphere, exoplanetary atmospheres and planet formation in binaries. By providing detailed theory and examples, this book helps readers to quickly familiarize themselves with the field. In addition, it offers a special section on next-generation planetary exploration, which opens a new landscape for future exploration plans and missions. Prof. Shuanggen Jin works at the Shanghai Astronomical Observatory, Chinese Academy of Sciences, China. Dr. Nader Haghighipour works at the University of Hawaii-Manoa, USA. Prof. Wing-Huen Ip works at the National Central University, Taiwan.

Advances in Geosciences Anil Bhardwaj.2009 *Advances in Geosciences* is the result of a concerted effort to bring together the latest results and planning activities related to earth and space science in Asia and the international arena. The volume editors are all leading scientists in their research fields covering six sections: Atmospheric Science (AS), Hydrological Science (HS), Ocean Science (OS), Solid Earth (SE), Solar Terrestrial (ST) and Planetary Science (PS). The main purpose is to highlight the scientific issues essential to the study of earthquakes, tsunamis, atmospheric dust storms, climate change, drought, flood, typhoons, monsoons, space weather, and planetary exploration. This volume is abstracted in NASA's Astrophysics Data System: <http://ads.harvard.edu>. Contents: X-Rays from Nonmagnetic Planets (K Dennerl); Clouds, Clumps, Cores, and Comets OCo A Cosmic Chemical Connection? (S B Charnley & S D Rodgers); Comparative X-Ray Studies of Planetary Aurorae (G Branduardi-Raymont); and other papers. Readership: Academics, researchers and postgraduate students in geosciences.

Vision and Voyages for Planetary Science in the Decade 2013-2022 National Research Council,Division on Engineering and Physical Sciences,Space Studies Board,Committee on the Planetary Science Decadal Survey.2012-01-30 In recent years, planetary science has seen a

tremendous growth in new knowledge. Deposits of water ice exist at the Moon's poles. Discoveries on the surface of Mars point to an early warm wet climate, and perhaps conditions under which life could have emerged. Liquid methane rain falls on Saturn's moon Titan, creating rivers, lakes, and geologic landscapes with uncanny resemblances to Earth's. *Vision and Voyages for Planetary Science in the Decade 2013-2022* surveys the current state of knowledge of the solar system and recommends a suite of planetary science flagship missions for the decade 2013-2022 that could provide a steady stream of important new discoveries about the solar system. Research priorities defined in the report were selected through a rigorous review that included input from five expert panels. NASA's highest priority large mission should be the Mars Astrobiology Explorer-Cacher (MAX-C), a mission to Mars that could help determine whether the planet ever supported life and could also help answer questions about its geologic and climatic history. Other projects should include a mission to Jupiter's icy moon Europa and its subsurface ocean, and the Uranus Orbiter and Probe mission to investigate that planet's interior structure, atmosphere, and composition. For medium-size missions, *Vision and Voyages for Planetary Science in the Decade 2013-2022* recommends that NASA select two new missions to be included in its New Frontiers program, which explores the solar system with frequent, mid-size spacecraft missions. If NASA cannot stay within budget for any of these proposed flagship projects, it should focus on smaller, less expensive missions first. *Vision and Voyages for Planetary Science in the Decade 2013-2022* suggests that the National Science Foundation expand its funding for existing laboratories and establish new facilities as needed. It also recommends that the program enlist the participation of international partners. This report is a vital resource for government agencies supporting space science, the planetary science community, and the public.

Reflectance Spectroscopy in Planetary Science .1988

Planets and Planetary Systems Stephen Eales.2009-08-03 Planetary Science is an exciting, fast-moving, interdisciplinary field with courses taught in a wide range of departments, including astronomy, physics, chemistry, earth sciences and biology. *Planets and Planetary Systems* is a well-written, concise introductory textbook on the science of planets within our own and other solar systems. Keeping mathematics to a minimum, assuming only a rudimentary knowledge of calculus, the book begins with a description of the basic properties of the planets in our solar systems, and then moves on to compare them with what is known about planets in other solar systems. It continues by looking at the surfaces, interiors and atmospheres of the planets and then covers the dynamics and origin of planetary systems. The book closes with a look at the role of life in planetary systems. · An accessible, concise introduction to planets and planetary systems · Uses insights from all the disciplines underlying planetary science · Incorporates results from recent planetary space missions, such as Cassini to Saturn and a number of missions to Mars · Well illustrated throughout, including a colour plate section *Planets and Planetary Systems* is invaluable to students taking courses in planetary science across a wide range of disciplines and of interest to researchers and many keen amateur astronomers, needing an up-to-date introduction to this exciting subject.

Visions into Voyages for Planetary Science in the Decade 2013-2022 National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Space Studies Board, Committee on the Review of Progress Toward Implementing the Decadal Survey *Vision and Voyages for Planetary Sciences*.2018-12-30 In spring 2011 the National Academies of Sciences, Engineering, and Medicine produced a report outlining the next decade in planetary sciences. That report, titled *Vision and Voyages for Planetary Science in the Decade 2013-2022*, and popularly referred to as the decadal survey, has provided high-level prioritization and guidance for NASA's Planetary Science Division. Other considerations, such as budget realities, congressional language in authorization and appropriations bills, administration requirements, and cross-division and cross-directorate requirements (notably in retiring risk or providing needed information for the human program) are also necessary inputs to how NASA develops its planetary science program. In 2016 NASA asked the National Academies to undertake a study assessing NASA's progress at meeting the objectives of the decadal survey. After the study was underway, Congress passed the National

Aeronautics and Space Administration Transition Authorization Act of 2017 which called for NASA to engage the National Academies in a review of NASA's Mars Exploration Program. NASA and the Academies agreed to incorporate that review into the midterm study. That study has produced this report, which serves as a midterm assessment and provides guidance on achieving the goals in the remaining years covered by the decadal survey as well as preparing for the next decadal survey, currently scheduled to begin in 2020.

Physics and Chemistry of the Solar System John S. Lewis.2004-02-09 John S. Lewis

Jupiter Fran Bagenal,Timothy E. Dowling,William B. McKinnon,William McKinnon.2006 This comprehensive volume authoritatively describes our understanding of the complex and fascinating jovian system. Written by a team of world experts, it brings together every aspect of the giant planetary system, from the deep interior of Jupiter to the distant tiny satellites and swarms of escaping gas and dust. Chapters present a synthesis of experimental data from the Voyager, Galileo and Cassini missions, from telescopes on the ground and in space, and from theoretical models on the different components that make up the Jupiter system. This book is a valuable introduction for graduate students and an indispensable resource for all researchers in planetary science.

Planetary Science George H. A. Cole,Michael M. Woolfson.2013-06-10 Since the publication of the popular first edition, stellar and planetary scientists have produced numerous new observations, theories, and interpretations, including the demotion of our former ninth planet Pluto as a dwarf planet. Covering all of these new discoveries, *Planetary Science: The Science of Planets around Stars, Second Edition* explains the science associated with the planets, the stars they orbit, and the interactions between them. It examines the formation, evolution, and death of stars and the properties of the Sun that influence the planets of the Solar System. Along with more problems, this second edition adds new material and improves some analytical treatments. The book consists of two main components. For students unfamiliar with stellar properties or the overall structure of the Solar System, the first part gives a general picture of the system as a whole and the interrelationships of the bodies within it. It presents an overview of the nature of stars and the Solar System as well as important results obtained by scientific analysis. The second component is a set of 43 appendices describing the majority of the underlying science required to explain the main features of the Solar System. These appendices cover a variety of specialized topics, from mineralogy to the mechanical interactions of radiation and matter. End-of-chapter problems give students a quantitative understanding of stellar and solar system phenomena. The text shows how useful estimates of various quantities can be made even when characteristics of the system are not known with any precision. While the problems can be completed with a hand calculator, students are encouraged to use the Fortran computer programs provided on the book's CRC Press web page. Avoiding excessive details, this textbook offers a comprehensive account of stellar and planetary topics. It is suitable for students from a range of disciplines, including astronomy, geology, and earth sciences. The book provides students with an understanding of the nature of the Solar System and the influences that govern its behavior, helping them develop an appreciation of the forces that can influence our planet in the future.

Fundamental Planetary Science Jack J. Lissauer,Imke de Pater.2013-09-16 A quantitative, broad-based introduction to planetary systems science for advanced undergraduate students, including planet formation, extrasolar planets and planetary habitability.

Planetary Sciences Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has been more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Planetary Sciences**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we

shall explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

Table of Contents Planetary Sciences

1. Understanding the eBook Planetary Sciences
 - The Rise of Digital Reading Planetary Sciences
 - Advantages of eBooks Over Traditional Books
2. Identifying Planetary Sciences
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Planetary Sciences
 - User-Friendly Interface
4. Exploring eBook Recommendations from Planetary Sciences
 - Personalized Recommendations
 - Planetary Sciences User Reviews and Ratings
 - Planetary Sciences and Bestseller Lists
5. Accessing Planetary Sciences Free and Paid eBooks
 - Planetary Sciences Public Domain eBooks
 - Planetary Sciences eBook Subscription Services
 - Planetary Sciences Budget-Friendly Options
6. Navigating Planetary Sciences eBook Formats
 - ePub, PDF, MOBI, and More
 - Planetary Sciences Compatibility with Devices
 - Planetary Sciences Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Planetary Sciences
 - Highlighting and Note-Taking Planetary Sciences
 - Interactive Elements Planetary Sciences
8. Staying Engaged with Planetary Sciences
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Planetary Sciences
9. Balancing eBooks and Physical Books Planetary Sciences
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Planetary Sciences
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Planetary Sciences
 - Setting Reading Goals Planetary Sciences
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Planetary Sciences
 - Fact-Checking eBook Content of Planetary Sciences
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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