

L·U·N·A·R

s o u r c e b o o k

a user's guide to the moon



*edited by Grant H. Heiken, David T. Vaniman,
and Bevan M. French*

foreword by Harrison H. Schmitt

Lunar Sourcebook A Users Guide To The Moon

Brian Cudnik



Lunar Sourcebook A Users Guide To The Moon:

Lunar Sourcebook Grant Heiken,David Vaniman,Bevan M. French,1991-04-26 The only work to date to collect data gathered during the American and Soviet missions in an accessible and complete reference of current scientific and technical information about the Moon **Lunar Sourcebook** Grant Heiken,David Vaniman,Bevan M. French,1991 **Lunar**

Sourcebook ,1991 **The Moon** David Schrunk,Burton Sharpe,Bonnie L. Cooper,Madhu Thangavelu,2007-11-27 This extraordinary book details how the Moon could be used as a springboard for Solar System exploration It presents a realistic plan for placing and servicing telescopes on the Moon and highlights the use of the Moon as a base for an early warning system from which to combat threats of near Earth objects A realistic vision of human development and settlement of the Moon over the next one hundred years is presented and the author explains how global living standards for the Earth can be enhanced through the use of lunar based generated solar power From that beginning the people of the Earth would evolve into a spacefaring civilisation **Photographic Atlas of the Moon** S. M. Chong,Albert Lim,P. S. Ang,2002-07-25 The

Photographic Atlas of the Moon is a day by day photographic guide to observing the features of the Moon through a small telescope Compiled by three keen amateur astronomers each image was produced using a 40cm telescope and high resolution low speed film Whole Moon images are provided for each day of the 29 day lunar cycle with labelled features and accompanying descriptive text Selected lunar features are shown at high magnification to highlight and clearly illustrate certain regions All lunar features are labelled using current IAU terminology A comprehensive set of appendices detail the phases of the Moon give a chronology of lunar selenography and index all lunar features named in the text This atlas is an invaluable reference guide for amateurs engaging in lunar observations with a small telescope **Handbook of Space**

Resources Viorel Badescu,Kris Zacny,Yoseph Bar-Cohen,2023-04-27 Earth has limited material and energy resources while these resources are virtually unlimited in space It is only a matter of time before planetary resources are mined and used in situ to sustain human and robotic exploration or returned to Earth for commercial gain This book covers a number of aspects related to space resources In particular subjects related to mission concepts exploration approaches mining and extraction technologies commercial potential and regulatory aspects of space resources are covered in detail This book is therefore a good resource for readers who seek background and deeper understanding of space resources related activities

Encyclopedia of Lunar Science Brian Cudnik,2023-05-13 The Encyclopedia of Lunar Science includes the latest topical data definitions and explanations of the many and varied facets of lunar science This is a very useful reference work for a broad audience not limited to the professional lunar scientist general astronomers researchers theoreticians practitioners graduate students undergraduate students and astrophysicists as well as geologists and engineers The title includes all current areas of lunar science with the topical entries being established tertiary literature The work is technically suitable to most advanced undergraduate and graduate students The articles include topics of varying technical levels so that the top

scientists of the field find this work a benefit as well as the graduate students and the budding lunar scientists A few examples of topical areas are as follows Basaltic Volcanism Lunar Chemistry Time and Motion Coordinates Cosmic Weathering through Meteoritic Impact Environment Geology Geologic History Impacts and Impact Processes Lunar Surface Processes Origin and Evolution Theories Regolith Stratigraphy Tectonic Activity Topography Weathering through ionizing radiation from the solar wind solar flares and cosmic rays

Planetary Mineralogy M.R. Lee ,H. Leroux,2015-04-20 This volume of the EMU Notes in Mineralogy is one of the outcomes of a school in planetary mineralogy that was held in Glasgow Scotland in 2014 The school was inspired by the recent advances in our understanding of the nature and evolution of our Solar System that have come from the missions to study and sample asteroids and comets and the very successful Mars orbiters and landers At the same time our horizons have expanded greatly with the discovery of extrasolar protoplanetary disks planets and planetary systems by space telescopes The continued success of such telescopic and robotic exploration requires a supply of highly skilled people and so one of the goals of the Glasgow school was to help build a community of early career planetary scientists and space engineers

Proceedings of the 26th Australasian Conference on the Mechanics of Structures and Materials Nawawi Chouw,Chunwei Zhang,2024-09-02 This book presents peer reviewed articles from The 26th Australasian Conference on the Mechanics of Structures and Materials ACM26 held in December 2023 at the University of Auckland in New Zealand Bringing together international experts and leaders to disseminate recent research findings in the fields of structural mechanics civil engineering and materials it offers a forum for participants from around the world to review discuss and present the latest developments in the broad discipline of mechanics and materials in civil engineering

Encyclopedia of Astrobiology Muriel Gargaud,William M. Irvine,Ricardo Amils,Philippe Claeys,Henderson James Cleaves,Maryvonne Gerin,Daniel Rouan,Tilman Spohn,Stéphane Tirard,Michel Viso,2023-07-27 Now in its third edition the Encyclopedia of Astrobiology serves as the key to a common understanding in the extremely interdisciplinary community of astrobiologists Each new or experienced researcher and graduate student in adjacent fields of astrobiology will appreciate this reference work in the quest to understand the big picture The carefully selected group of active researchers contributing to this work are aiming to give a comprehensive international perspective on and to accelerate the interdisciplinary advance of astrobiology The interdisciplinary field of astrobiology constitutes a joint arena where provocative discoveries are coalescing concerning e g the prevalence of exoplanets the diversity and hardiness of life and its chances for emergence Biologists astrophysicists bio chemists geoscientists and space scientists share this exciting mission of revealing the origin and commonality of life in the Universe With its overview articles and its definitions the Encyclopedia of Astrobiology not only provides a common language and understanding for the members of the different disciplines but also serves for educating a new generation of young astrobiologists who are no longer separated by the jargon of individual scientific disciplines This new edition offers 170 new entries More than half of the existing entries were updated

expanded or supplemented with figures supporting the understanding of the text Especially in the fields of astrochemistry and terrestrial extremophiles but also in exoplanets and space sciences in general there is a huge body of new results that have been taken into account in this new edition Because the entries in the Encyclopedia are in alphabetical order without regard for scientific field this edition includes a section Astrobiology by Discipline which lists the entries by scientific field and subfield This should be particularly helpful to those enquiring about astrobiology as it illustrates the broad and detailed nature of the field

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

Cosmochemistry Harry McSween, Jr,Gary Huss,2022-03-03 Cosmochemistry is a rapidly evolving field of planetary science and the second edition of this classic text reflects the exciting discoveries made over the past decade from new spacecraft missions Topics covered include the synthesis of elements in stars behaviour of elements and isotopes in the early solar nebula and planetary bodies and compositions of extra terrestrial materials Radioisotope chronology of the early Solar System is also discussed as well as geochemical exploration of planets by spacecraft and cosmochemical constraints on the formation of solar systems Thoroughly updated throughout this new edition features significantly expanded coverage of chemical fractionation and isotopic analyses focus boxes covering basic definitions and essential background material on mineralogy organic chemistry and quantitative topics and a comprehensive glossary An appendix of analytical techniques and end of chapter review questions with solutions available at www.cambridge.org/cosmochemistry2e also contribute to making this the ideal teaching resource for courses on the Solar System s composition as well as a valuable reference for early career researchers

Advances in Extraterrestrial Drilling: Yoseph Bar-Cohen,Kris Zacny,2020-12-23 Advances in Extraterrestrial Drilling Ground Ice and Underwater includes the latest advances that have been made in recent years in developing drilling and excavation mechanisms for extraterrestrial bodies The chapters cover drill types drilling techniques and their advantages and associated issues rock coring including acquisition damage control caching and transport and data interpretation as well as unconsolidated soil drilling and borehole stability This book includes a description of the basic

science of the drilling process associated processes of breaking and penetrating various media the required hardware and the process of excavation and analysis of the sampled media Covers the most recent advances in extraterrestrial drilling Discusses drilling in the broadest range of media including ground ice underwater and planetary surfaces from shallow to very deep Provides a comprehensive description of key drilling techniques and the efforts to develop unified approach to assessing the required tools for given drilling requirements Discusses how environment affects drilling and approaches to addressing the effects and current challenges of drilling and excavation on other planets Examines novel drilling and excavation approaches Dr Yoseph Bar Cohen is the Supervisor of the Electroactive Technologies Group <http://ndeaa.jpl.nasa.gov> and a Senior Research Scientist at the Jet Propulsion Lab Caltech Pasadena CA His research is focused on electro mechanics including planetary sample handling mechanisms novel actuators that are driven by materials such as piezoelectric and EAP also known as artificial muscles and biomimetics Dr Kris Zacny is a Senior Scientist and Vice President of Exploration Systems at Honeybee Robotics Altadena CA His expertise includes space mining sample handling soil and rock mechanics extraterrestrial drilling and In Situ Resource Utilization ISRU

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

Mercury Sean C. Solomon, Larry R. Nittler, Brian J. Anderson, 2018-12-20 Observations from the first spacecraft to orbit the planet Mercury have transformed our understanding of the origin and evolution of rocky planets This volume is the definitive resource about Mercury for planetary scientists from students to senior researchers Topics treated in depth include Mercury's chemical composition the structure of its crust lithosphere mantle and core Mercury's modern and ancient magnetic field Mercury's geology including the planet's major geological units and their surface chemistry and mineralogy its spectral reflectance characteristics its craters and cratering

history its tectonic features and deformational history its volcanic features and magmatic history its distinctive hollows and the frozen ices in its polar deposits Mercury's exosphere and magnetosphere and the processes that govern their dynamics and their interaction with the solar wind and interplanetary magnetic field the formation and large scale evolution of the planet and current plans and needed capabilities to explore Mercury further in the future

Advances in Terrestrial and Extraterrestrial Drilling: Yoseph Bar-Cohen, Kris Zacny, 2021-08-26 This two volume set includes the latest principles behind the processes of drilling and excavation on Earth and other planets It covers the categories of drills the history of drilling and excavation various drilling techniques and associated issues rock coring acquisition damage control caching and transport restoration of in situ conditions and data interpretation as well as unconsolidated soil drilling and borehole stability It describes the drilling process from basic science and associated process of breaking and penetrating various media and the required hardware and the process of excavation and analysis of the sampled media

The New Solar System J. Kelly Beatty, Carolyn Collins Petersen, Andrew Chaikin, 1999-01-28 The New Solar System now in its fourth edition is firmly established as the leading text on planetary science and solar system studies A distinguished team of researchers many of the Principal Investigators on NASA missions has carried out a complete revision of the text illustrations and tables The book has been completely redesigned to display hundreds of new images to best advantage and to make the reference data and tables easier to use New to this edition are descriptions of collisions in the solar system full scientific results from Galileo's mission to Jupiter and its moons and the Mars Pathfinder mission Sections on comets the search for other worlds and the search for life take into account the latest discoveries

Encyclopedia of Glass Science, Technology, History, and Culture Pascal Richet, 2021-02-05 A comprehensive and up to date encyclopedia to the fabrication nature properties uses and history of glass The Encyclopedia of Glass Science Technology History and Culture has been designed to satisfy the needs and curiosity of a broad audience interested in the most varied aspects of material that is as old as the universe As described in over 100 chapters and illustrated with 1100 figures the practical importance of glass has increased over the ages since it was first made four millennia ago The old age glass vessels and window and stained glass now coexist with new high tech products that include for example optical fibers thin films metallic bioactive and hybrid organic inorganic glasses amorphous ices or all solid state batteries In the form of scholarly introductions the Encyclopedia chapters have been written by 151 noted experts working in 23 countries They present at a consistent level and in a self consistent manner these industrial technological scientific historical and cultural aspects Addressing the most recent fundamental advances in glass science and technology as well as rapidly developing topics such as extra terrestrial or biogenic glasses this important guide Begins with industrial glassmaking Turns to glass structure and to physical transport and chemical properties Deals with interactions with light inorganic glass families and organically related glasses Considers a variety of environmental and energy issues And concludes with a long section on the history of glass as a material from Prehistory to modern glass science The Encyclopedia

of Glass Science Technology History and Culture has been written not only for glass scientists and engineers in academia and industry but also for material scientists as well as for art and industry historians It represents a must have comprehensive guide to the myriad aspects this truly outstanding state of matter

Venus II Steven W. Bougher, Donald M. Hunten, Roger J. Phillips, 2022-02-08 The final orbit of Venus by the Magellan spacecraft in October 1994 brought to a close an exciting period of Venus reconnaissance and exploration The scientific studies resulting from data collected by the Magellan Galileo and Pioneer missions are unprecedented in their detail for any planet except Earth Venus II re evaluates initial assessments of Venus in light of these and other spacecraft missions and ground based observations conducted over the past 30 years More than a hundred contributors summarize our current knowledge of the planet consider points of disagreement in interpretation and identify priorities for future research Topics addressed include geology surface processes volcanism tectonism impact cratering geodynamics upper and lower atmospheres and solar wind environment The diversity of the coverage reflects the interdisciplinary nature of Venus science and the breadth of knowledge that has contributed to it A CD ROM developed by the Jet Propulsion Laboratory accompanies the book and incorporates text graphics video software and various digital products from selected contributors to the text A multimedia interface allows users to navigate the text and the extensive databases included on the disk Venus II is the most authoritative single volume available on the second planet Its contents will not only help shape the goals of future Venus missions but will also enhance our understanding of current Mars explorations

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

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