

PLANETARY SCIENCE: A LUNAR PERSPECTIVE

by STUART ROSS TAYLOR



Planetary Science A Lunar Perspective

S. Ross Taylor, Scott McLennan



Planetary Science A Lunar Perspective:

Planetary Science Stuart Ross Taylor, 1982 **Planetary Science**, *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.

Advances In Geosciences (A 5-volume Set) - Volume 3: Planetary Science (Ps) Anil Bhardwaj, 2006-05-22 *Advances in Geosciences* is the result of a concerted effort in bringing 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 five sections: Solid Earth (SE), Solar Terrestrial (ST), Planetary Science (PS), Hydrological Science (HS) and Oceans and Atmospheres (OA). The main purpose is to highlight the scientific issues essential to the study of earthquakes, tsunamis, climate change, drought, flood, typhoons, space weathers and planetary exploration. This volume is abstracted in NASA's Astrophysics Data System and ads.harvard.edu.

Planetary Crusts S. Ross Taylor, Scott McLennan, 2009 *Planetary Crusts* explains how and why solid planets and satellites develop crusts. Extensively referenced and annotated, it presents a geochemical and geological survey of the crusts of the Moon, Mercury, Venus, Earth and Mars, the asteroid Vesta and several satellites like Io, Europa, Ganymede, Titan and Callisto. After describing the nature and formation of solar system bodies, the book presents a comparative investigation of different planetary crusts and discusses many crustal controversies. The authors propose the theory of stochastic processes dominating crustal development and debate the possibility of Earth-like planets existing elsewhere in the cosmos. Written by two leading authorities on the subject, this book presents an extensive survey of the scientific problems of crustal development and is a key reference for researchers and students in geology, geochemistry, planetary science, astrobiology and astronomy.

Rare Earth Element Geochemistry P. Henderson, 2013-10-22 *Developments in Geochemistry Volume 2: Rare Earth Element Geochemistry* presents the remarkable developments in the chemistry and geochemistry of the rare earth elements. This book discusses the analytical techniques and the recognition that rare earth fractionation occurs naturally in different ways. Organized into 13 chapters, this volume begins with an overview of the wide array of types and sizes of the cation coordination polyhedral in rock-forming minerals.

This text then examines the application of rare earth element abundances to petrogenetic problems that has centered on the evolution of igneous rocks Other chapters consider the matching of observed rare earth element abundances with those provided by the theoretical modeling of petrogenetic processes This book discusses as well the hypotheses on the genesis of a rock or mineral suite The final chapter deals with the principal analytical methods This book is a valuable resource for undergraduates lecturers and researchers who study petrology and geochemistry **The Planetary Scientist's**

Companion Katharina Lodders, Bruce Fegley, 1998 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 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 *The Century of Space Science* J.A. Bleeker, Johannes Geiss, M. Huber, 2012-12-06 One of the most attractive features of the young discipline of Space Science is that many of the original pioneers and key players involved are still available to describe their field Hence at this point in

history we are in a unique position to gain first hand insight into the field and its development To this end The Century of Space Science a scholarly authoritative reference book presents a chapter by chapter retrospective of space science as studied in the 20th century The level is academic and focuses on key discoveries how these were arrived at their scientific consequences and how these discoveries advanced the thoughts of the key players involved With over 90 world class contributors such as James Van Allen Cornelis de Jager Eugene Parker Reimar L st and Ernst Stuhlinger and with a Foreword by Lodewijk Woltjer past ESO Director General this book will be immensely useful to readers in the fields of space science astronomy and the history of science Both academic institutions and researchers will find that this major reference work makes an invaluable addition to their collection

Planetary Materials James J. Papike, 2018-12-17 Volume 36 of Reviews in Mineralogy presents a comprehensive coverage of the mineralogy and petrology of planetary materials The book is organized with an introductory chapter that introduces the reader to the nature of the planetary sample suite and provides some insights into the diverse environments from which they come Chapter 2 on Interplanetary Dust Particles IDPs and Chapter 3 on Chondritic Meteorites deal with the most primitive and unevolved materials we have to work with It is these materials that hold the clues to the nature of the solar nebula and the processes that led to the initial stages of planetary formation Chapter 4 5 and 6 consider samples from evolved asteroids the Moon and Mars respectively Chapter 7 is a brief summary chapter that compares aspects of melt derived minerals from differing planetary environments

Chronology and Evolution of Mars R. Kallenbach, Johannes Geiss, W.K. Hartmann, 2013-11-11 Mars is about one eighth the mass of the Earth and it may provide an analogue of what the Earth was like when it was at such an early stage of accretion The further growth of the Earth was sustained by major collisions with planetesimals and planets such as that which resulted in the formation of the Earth's moon Hartmann and Davis 1975 Cameron and Ward 1976 Wetherill 1986 Cameron and Benz 1991 This late accretionary history which lasted more than 50 Myr in the case of the Earth Halliday 2000a b appears to have been shorter and less catastrophic in the case of Mars Harper et al 1995 Lee and Halliday 1997 In this article we review the basic differences between the bulk composition of Mars and the Earth and the manner in which this plays into our understanding of the timing and mechanisms of accretion and core formation We highlight some of the evidence for early cessation of major collisional growth on Mars Finally we reevaluate the isotopic evidence that Mars differentiated quickly Fundamental differences between the composition of Mars and that of other terrestrial planets are apparent from the planet's slightly lower density and from the compositions of Martian meteorites The low density is partially explicable if there is a greater proportion of more volatile elements

Anorthosites Lewis D. Ashwal, 2013-03-12 The idea for a book on anorthosites came to me in January of 1986 while returning to Houston after holiday festivities in Dallas The original idea was a review paper on anorthosites but by the time I reached Houston the subject material I contemplated including was obviously too extensive for a single paper The Director of the Lunar and Planetary Institute Kevin Burke was receptive to the idea of a book and

suggested that I contact Peter Wyllie who serves as Editor of the Springer Verlag series Minerals and Rocks This effort which I originally expected would take about a year has taken nearly 6 I have many excuses indolence moving to another continent other commitments etc but the basic truth is that writing a book is much larger an undertaking than can be anticipated Many people are aware of this and I was duly forewarned But why write a book on anorthosites This is a very good question which I have considered from many angles One rationale can be expressed in terms of a comparison between anorthosite and basalt A first order understanding of basalt genesis has been extant for many years By contrast there is little agreement about the origin of anorthosite There are good reasons for studying and writing about basalt it is the most abundant rock type on the Earth's surface and is also plentiful on the surfaces of the other terrestrial planets

Fundamentals of Adhesion and Interfaces D. S. Rimai, L. P. DeMejo, K. L. Mittal, 2020-05-18 No detailed description available for Fundamentals of Adhesion and Interfaces

Magma, Rocks and Planetary Development Eric A. K. Middlemost, 2014-06-03 The variety of volcanic activity in the Solar System is widely recognised yet the majestic sequences of magmatic processes that operate within an active planet are much less well known Providing an exposition of igneous rocks, magmas and volcanic eruptions this book brings together magnetic and volcanic data from different tectonic settings and planets with explanations of how they fit together It systematically examines composition, origin and evolution of common igneous rocks yet also examines a variety of rare magnetic rocks that play a crucial role in the global magma igneous rock system

Earth as an Evolving Planetary System Kent C. Condie, 2011-08-11 Kent C Condie

Large Meteorite Impacts and Planetary Evolution B. O. Dressier, R.A.F. Grieve, V. L. Sharpton, 1994-01-01 Comprises 28 papers which grew out of the International Conference on Large Meteorite Impacts and Planetary Evolution August-September 1992 in Sudbury Ontario The interdisciplinary papers encompassing diverse studies from trace element geochemistry to planetary exploration are arranged into five parts

Absolute Age Determination Mebus A. Geyh, Helmut Schleicher, 2012-12-06 With the growing recognition during the last two centuries that the Earth has an immense age and processes over long periods of time have changed the morphology and composition of the Earth's crust geologists have become increasingly interested in determination of absolute ages A relative geochronology was established on the basis of the lithostratigraphic and biostratigraphic principles developed during the last century With the discovery of radioactivity the basis for a new geoscientific discipline geochronology was established Rutherford 1906 It is the study of geological time based mainly on the time signatures provided by the isotopic composition in geologic materials The isotopic signature in a rock yields more information than that provided by the geochemical signature alone because it reflects the origin and history of the element in the rock The aim of geochronology is to calibrate and standardize chronostratigraphic scales to develop geological time scales that have a sensitive or at least useful resolution in order to place the geological events in the correct chronological order and to assign their proper time spans In practice the application of geochronology is much wider because the data in the natural archives often provide information on the origin

genesis and history of the materials This of course requires an understanding of the geochemical behavior of the substances involved

Environmental Effects on Volcanic Eruptions James R. Zimbelman, Tracey K.P. Gregg, 2000-10-31 The book presents current research into the effect that environmental conditions have on volcanic eruptions and the subsequent emplacement of volcanic products This is accomplished through a series of chapters that investigate specific environments both terrestrial and extraterrestrial and the expression of volcanic materials found within those settings Current state of the art numerical analytical and computer models are used in most chapters to provide robust quantitative insights into how volcanoes behave in different environmental settings Readership Upper level undergraduates and new graduates The book is primarily a presentation of research results rather than a tutorial for the general public Textbook or supplementary reading for courses in volcanology or comparative planetology at college university level

Geophysical Exploration of the Solar System Cedric Schmelzbach, Simon Christian Stahler, 2022-08-20 Advances in Geophysics serial highlights new advances in the field with this new volume presenting interesting chapters Each chapter is written by an international board of authors Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in Advances in Geophysics serials Updated release includes the latest information on geophysical exploration of the solar system

Evolving Theories on the Origin of the Moon Warren D. Cummings, 2019-09-25 This book follows the development of research on the origin of the Moon from the late 18th century to the present By gathering together the major texts papers and events of the time it provides a thorough chronicle of the paradigmatic shift in planetary science that arose from the notion that the Earth Moon system was formed from two colliding planetary bodies The book covers pre Apollo ideas the conceptual evolution during and subsequent to the Apollo explorations of the Moon and the development of the Earth Moon system consensus A plethora of excerpts from key publications are included to demonstrate the shift in scientific focus over the centuries Through its comprehensive review of lunar science research and literature this book shows how new technologies and discoveries catalyzed the community and revolutionized our understanding of the Moon s formation

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