

THE PHYSICS OF THE PLANETS

Their Origin, Evolution
and Structure



Edited by

S. K. RUNCORN

Physics Of The Planets Their Origin Evolution And Structure

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Physics Of The Planets Their Origin Evolution And Structure:

The Physics of the Planets S. K. Runcorn, **Formation Of The Solar System, The: Theories Old And New (2nd Edition)** Michael Mark Woolfson, 2014-09-11 This fully updated second edition remains the only truly detailed exploration of the origins of our Solar System written by an authority in the field Unlike other authors Michael Woolfson focuses on the formation of the solar system engaging the reader in an intelligent yet accessible discussion of the development of ideas about how the Solar System formed from ancient times to the present Within the last five decades new observations and new theoretical advances have transformed the way scientists think about the problem of finding a plausible theory Spacecraft and landers have explored the planets of the Solar System observations have been made of Solar System bodies outside the region of the planets and planets have been detected and observed around many solar type stars This new edition brings in the most recent discoveries including the establishment of dwarf planets and challenges to the standard model of planet formation the Solar Nebula Theory While presenting the most up to date material and the underlying science of the theories described the book avoids technical jargon and terminology It thus remains a digestible read for the non expert interested reader whilst being detailed and comprehensive enough to be used as an undergraduate physics and astronomy textbook where the formation of the solar system is a key part of the course Michael Woolfson is Emeritus Professor of Theoretical Physics at University of York and is an award winning crystallographer and astronomer **Mantle Convection in the Earth and Planets** Gerald Schubert, Donald Lawson Turcotte, Peter Olson, 2001 Comprehensive and up to date synthesis of all aspects of mantle convection for advanced students and researchers **Literature 1988, Part 1** U. Esser, H. Hefele, Inge Heinrich, W. Hofmann, D. Krahn, V. R. Matas, Dr. Lutz D. Schmadel, G. Zech, 2013-11-11 From the reviews *Astronomy and Astrophysics Abstracts* has appeared in semi annual volumes since 1969 and it has already become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring sciences It is the most important English language abstracting journal in the mentioned branches The abstracts are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world *Space Science Reviews* 1 Dividing the whole field plus related subjects into 108 categories each work is numbered and most are accompanied by brief abstracts Fairly comprehensive cross referencing links relevant papers to more than one category and exhaustive author and subject indices are to be found at the back making the catalogues easy to use The series appears to be so complete in its coverage and always less than a year out of date that I shall certainly have to make a little more space on those shelves for future volumes *The Observatory Magazine* 2

Helioseismic Diagnostics of Solar Convection and Activity Zdenek Svestka, John W. Harvey, 2012-12-06 Most papers in this book were presented at the SOHO 9 Workshop Helioseismic Diagnostics of Solar Convection and Activity held on 12

15 July 1999 at Stanford University California U S A Some papers which were not presented at the work shop have been added after authors had been invited in Solar News to contribute to this book All papers submitted to this book have been refereed and only those of high scientific quality were accepted for publication The book focuses on the recent advances in our understanding of solar convection and activity and on methods and results of helioseismic diagnostics of the internal structures and dynamics of solar convection and active regions The methods of local helioseismology time distance tomography ring diagram analysis acoustic imaging and holography intensively developed in the past few years have provided promising results on the deep structure of large scale convection and flows emerging active regions and sunspots Along with the traditional global helioseismology based on frequencies of resonant oscillation modes the local area techniques have become increasingly important for studying the solar interior and the mechanisms of solar activity The new high resolution helioseismology projects Solar Oscillation Investigation Michelson Doppler Imager SOI/MDI on board SOHO and ground based Global Oscillation Network Group GONG have provided a tremendous amount of solar oscillation data Extracting from these data the information about the internal properties and dynamics of the Sun and using this information in theoretical models and space weather forecasts are new challenges in solar physics

International Aerospace

Abstracts, 1988 **Magnetic Fields of Celestial Bodies** Ye Shi-hui, 2012-12-06 Magnetism is one of the basic properties of matter Mankind has travelled a long road in discovering and utilizing magnetism and in this respect the ancient Chinese people have made outstanding contributions In the book *Lu's Spring and Autumn* written near the end of the Warring States Period i.e. in the third century B.C. there is a statement on the attraction of iron by lodestones So at that time it was known that magnets can attract ferromagnetic material At the beginning of the first century A.D. viz. in the early years of the East Han Dynasty the famous scholar Wang Chong wrote in his masterpiece *Len Hien* that the handle of a magnetic dipper pointed to the south It was thus discovered at the time that magnets can point to the poles of the geomagnetic field At the beginning of the twelfth century during the reign of Emperor Hui of the Sung Dynasty in the two books written by Zhu Yo and Xu Jin respectively there are descriptions of the compass used in navigation This tells us that the application of compasses was rather widespread at that time The distinguished scientist Shen Kuo 1031-1085 discovered the declination of the terrestrial magnetic field This is four hundred and more years earlier than its discovery by Christopher Columbus in 1492 during his voyage across the Atlantic Ocean Such facts as these manifest the important contributions of ancient China to global civilization

Wanderers in Space Kenneth R. Lang, Charles A. Whitney, 1991-03-21 How were the features on the Moon created What is the evidence for past or future life on Mars What might cause the Earth to become as hot and steamy as Venus Why do some say that a colliding asteroid wiped out the dinosaurs 65 million years ago From the earliest of times the human race has pondered upon the nature of the Heavens The moons and planets have changed from mere points of light to fascinating diverse worlds Spacecraft have visited all the planets known to ancient people Human beings have visited the

Moon and robot spacecraft have landed on Venus and Mars This book presents the result of this captivating voyage of discovery recording more than two decades of extraordinary accomplishments The voyage starts with the still silent and lifeless Moon Then on to the contrasting world of Mars with its towering volcanoes and deep canyons The exploration continues across asteroid belts and icy comets to the outer planets where Voyager II revealed cyclonic storms liquid hydrogen and helium rain and the beautiful pink and blue dynamic world of Neptune This book includes numerous photos from spacecraft as well as a few works of modern art They provide the best available metaphors and images of the previously invisible worlds

The Earth as a Distant Planet M. Vázquez,E. Pallé,P. Montañés Rodríguez,2010-03-12 In *The Earth as a Distant Planet* the authors become external observers of our solar system from a distance and try to determine how one can understand how Earth the third in distance to the central star is essentially unique and capable of sustaining life The knowledge gained from this original perspective is then applied to the search for other planets outside the solar system or exoplanets Since the discovery in 1992 of the first exoplanet the number of planet detections has increased exponentially and ambitious missions are already being planned for the future The exploration of Earth and the rest of the rocky planets are Rosetta stones in classifying and understanding the multiplicity of planetary systems that exist in our galaxy In time statistics on the formation and evolution of exoplanets will be available and will provide vital information for solving some of the unanswered questions about the formation as well as evolution of our own world and solar system Special attention is paid to the biosignatures signs of life detectable in the Earth's reflected spectra and the search for life in the universe The authors are experts on the subject of extrasolar planets They provide an introductory but also very much up to date text making this book suitable for researchers and for advanced students in astronomy and astrophysics

Light Years Away Sudhir Routray,2004-12 *Light Years Away* covers the wonderful things of our universe and the possibilities beyond our visible range As the name suggests most of the subject matters of the book are of distant objects like our neighbouring stars star clusters nebulae galaxies galaxy clusters and superclusters In the final chapters the possibilities beyond the observable limit and beyond our universe have been looked at carefully But the facts of solar system and earth have not been ignored The whole view of the creation has been presented in a lucid format The basic questions that we encounter like where is the end boundary of the universe what can be the nature of the extra universal things is light the fastest why we are unable to explain the universe etc have been addressed in a scientific and logical but unsophisticated way Of course some back ground in the subjects like physics and astronomy can help in the better understanding into the matter But for any enthusiast of space and cosmos irrespective of the back ground and age *Light Years Away* will be a satisfactory text

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