

The Half Life Of Planets

Stephen J. Mackwell, Amy A. Simon-Miller, Jerald W. Harder, Mark A. Bullock

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The Half-Life of Planets Emily Franklin, Brendan Halpin, 2015-04-07 A smart and unusual romance just about right for fans of John Green Booklist Liana's decided to boycott kissing this summer hoping to lose her reputation and focus on planetary science Hank has near encyclopedic knowledge of music and Asperger's syndrome When they meet by chance in a hospital restroom neither one realizes that their friendship will change everything If Liana's experiment goes as planned she ll learn to open up using her mouth for talking instead of kissing But Hank's never been kissed and thinks Liana might be the On the Origin of Planets M. M. Woolfson, 2011 one to show him if he can stop spewing music trivia long enough to let her The book begins with a historical review of four major theories for the origin of the Solar System in particular or of planets in general which highlight the major problems that need to be solved by any plausible theory In many theories including that which form the major theme of this book the formation of planets and stars is intimately linked so four chapters are devoted to the processes that can be described as the birth life and death of stars Recent observations that have revealed the existence of planets around many Sun like stars are described in detail followed by a clear exposition of the Capture Theory for the origin of planets Many aspects of this theory are illustrated with sophisticated computer modelling that convincingly demonstrates the plausibility of the theory The Capture Theory is in complete accord with all observations including the estimate it gives for the proportion of Sun like stars with planets It is the only theory that sits comfortably with all present observational and theoretical constraints The general theory of planet formation does not explain the detailed structure of the Solar System An early postulated collision of two major planets is shown to explain many disparate features of the Solar System the nature of the terrestrial planets surface features of the Moon and its relationship with Earth asteroids comets and dwarf planets the relationship between Neptune Triton and Pluto and the characteristics of meteorites including the isotopic anomalies found in them The postulate of a planetary collision is given support by a 2009 NASA observation of the residue of such an event around a distant young star *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 An Introduction to Our Dynamic Planet Stephen Blake, 2008-02-14 At last an undergraduate textbook integrating the geophysics geochemistry and petrology of the Earth to explain plate tectonics and geodynamics Systems Raymond T. Pierrehumbert, 2021 For many decades we were only familiar with our own system of planets the Solar System orbiting our Sun Now we know that it is just one among a vast range of planetary systems around distant stars This book explores the nature and variety of planetary systems how they are formed and how they die Thermodynamics of the Earth and Planets Alberto Patiño Douce, 2011-08-25 This textbook provides an intuitive yet mathematically rigorous introduction to the thermodynamics and thermal physics of planetary processes It demonstrates how the workings of planetary bodies can be understood in depth by reducing them to fundamental physics and chemistry The book is based on two courses taught by the author for many years at the University of Georgia It includes Guided Exercise boxes end of chapter problems worked solutions provided online and software boxes Maple code provided online As well as being an ideal textbook on planetary thermodynamics for advanced students in the Earth and planetary sciences it also provides an innovative and quantitative complement to more traditional courses in geological thermodynamics petrology chemical oceanography and planetary science In addition to its use as a textbook it is also of great interest to researchers looking for a one stop source of concepts and techniques that they can apply to their research problems Planetary Astrobiology Victoria Meadows, Giada Arney, Britney Schmidt, David J. Des Marais, 2020-07-07 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 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 Geosciences—1988 Maria T. Zuber, 1989

Planetary Geology Dominic Fortes, Claudio Vita-Finzi, 2025-02-17 Planetary geology today extends far beyond the study of rocks encompassing planetary origins interiors tectonics atmospheres oceans and biology It is not limited to the planets within our own solar system either The past decade has witnessed groundbreaking missions to asteroids and comets as well as the discovery of thousands of exoplanets orbiting distant stars This book offers a comprehensive exploration of the intricate geological processes shaping planets both within and beyond our solar system It introduces fundamental concepts while framing the latest developments in planetary science With over 1 000 references from more than 170 journals this fully updated 3rd edition Focuses on geological processes rather than a planet by planet approach essential for understanding the common mechanisms linking planetary bodies across the universe Explains complex concepts in an accessible manner avoiding undue reliance on mathematical formulas and equations Takes into account the increasing globalisation and commercialisation of space exploration and planetary science A best selling student text Planetary Geology serves as an approachable yet in depth introduction to a field that can seem overwhelming in its scope Throughout authors Dominic Fortes and Claudio Vita Finzi foster curiosity and critical thinking driven by the belief that a deeper understanding of planetary processes will ultimately help us better understand Earth's place in the universe **Lunar and Planetary** Science XXVII ,1996 An Introduction to the Solar System Mahesh Anand, 2018-01-11 Updated third edition introduces undergraduates to the Solar System's bodies the processes upon and within them and their origins and evolution Life in the Universe James Newsome Pierce, 2008 This book explores the science of extraterrestrial life with a particular emphasis

on the existence of intelligent alien civilizations It introduces the reader to the basic chemistry associated with life on Earth and describes the planetary and stellar environments that allow us to exist It also discusses the likelihood of alien life developing at other locations in our galaxy along with the possibility that we will meet or communicate with them This book is suitable for use as a text in an introductory Life in the Universe course REVIEWS Blog Critics Magazine written by Regis Schilken http blogcritics org archives 2009 03 16 082715 php Time In Powers Of Ten: Natural Phenomena And Their Timescales Gerard 'T Hooft, Stefan Vandoren, 2014-05-12 With a Foreword by Steven Weinberg In this richly illustrated book Nobel Laureate Gerard t Hooft and Theoretical Physicist Stefan Vandoren describe the enormous diversity of natural phenomena that take place at different time scales In the tradition of the bestseller Powers of Ten the authors zoom in and out in time each step with a factor of ten Starting from one second time scales are enlarged until processes are reached that take much longer than the age of the universe After the largest possible eternities the reader is treated to the shortest and fastest phenomena known Then the authors increase with powers of ten until again the second is reached at the end of the book At each time scale interesting natural phenomena occur spread over all scientific disciplines orbital and rotation periods of planets and stars decay times of elementary particles and atoms biological rhythms and evolution processes but also the different geological time scales remove Planetary Sciences Imke de Pater, Jack J. Lissauer, 2010-07-15 An authoritative introduction for graduate students in astronomy planetary science and earth science

The Physics of the Planets S. K. Runcorn, 1988-03-24 Very Good No Highlights or Markup all pages are intact Origin of the Earth and Moon Robin M. Canup, Kevin Righter, 2000-11 The age old question of how our home planet and its satellite originated has in recent times undergone a minor revolution. The emergence of the giant impact theory as the most successful model for the origin of the Moon has been difficult to reconcile with some aspects of the Earth and the development of an integrated model for the origin of the Earth Moon system has been difficult for this reason However recent technical advances in experimental and isotopic work together with intensified interest in the modeling of planetary dynamics have produced a wealth of new results requiring a rethinking of models for the origin of the Earth and Moon This book is intended to serve as a resource for those scientists working closely in this field while at the same time it provides enough balance and depth to offer an introduction for students or technically minded general readers Its thirty chapters address isotopic and chemical constraints on accretion the dynamics of terrestrial planet formation the impact triggered formation of the Earth Moon system differentiation of the Earth and Moon the origin of terrestrial volatiles and conditions on the young Earth and Moon Covering such subjects as the history and origin of the Moon's orbit water on the Earth and the implications of Earth Moon interactions for terrestrial climate and life the book constitutes a state of the art overview of the most recent investigations in the field Although many advances have been made in our ability to evaluate competing models of the formation of the Earth Moon system there are still many gaps in our understanding This book makes great strides

Planetary Geology Claudio Vita-Finzi, Andrew Dominic Fortes, 2013-06-20 In a dynamic treatment of planets of the Solar System from a unified perspective Planetary Geology deals with the origin of planetary bodies the forces that fashion their surfaces the rise and fall of icecaps and oceans and the role of life in planetary history Comparative Climatology of Terrestrial Planets Stephen J. Mackwell, Amy A. Simon-Miller, Jerald W. Harder, Mark A. Bullock, 2014-01-30 Through the contributions of more than sixty leading experts in the field Comparative Climatology of Terrestrial Planets sets forth the foundations for this emerging new science and brings the reader to the forefront of our current understanding of atmospheric formation and climate evolution Provided by publisher Planetary Geosciences--1988 Maria Zuber, 1989

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