The Exoplanet Handbook

Barbara Ryden, Bradley M. Peterson

The Exoplanet Handbook Michael Perryman, 2018-08-30 A complete and in-depth review of exoplanet research, covering the discovery methods, physics and theoretical background.

The Exoplanet Handbook Michael Perryman,2018-08-30 With the discovery of planets beyond our solar system 25 years ago, exoplanet research has expanded dramatically, with new state-of-the-art ground-based and space-based missions dedicated to their discovery and characterisation. With more than 3,500 exoplanets now known, the complexity of the discovery techniques, observations and physical characterisation have grown exponentially. This Handbook ties all these avenues of research together across a broad range of exoplanet science. Planet formation, exoplanet interiors and atmospheres, and habitability are discussed, providing in-depth coverage of our knowledge to date. Comprehensively updated from the first edition, it includes instrumental and observational developments, in-depth treatment of the new Kepler mission results and hot Jupiter atmospheric studies, and major updates on models of exoplanet formation. With extensive references to the research literature and appendices covering all individual exoplanet discoveries, it is a valuable reference to this exciting field for both incoming and established researchers.

The Exoplanet Handbook Research Scientist Michael Perryman, 2014-05-14 Comprehensive, up-to-date overview of all important topics in exoplanet research, ideal for astronomy and planetary science researchers entering the field.

The Exoplanet Handbook Michael Perryman,2011-05-26 Exoplanet research is one of the most explosive subjects in astronomy today. More than 500 exoplanets are now known, and groups world-wide are actively involved in a broad range of observational and theoretical efforts. This book ties together these many avenues of investigation - from the perspectives of observation, technology and theory - to give a comprehensive, up-to-date review of the entire field. All areas of exoplanet investigation are covered, making it a unique and valuable guide for researchers in astronomy and planetary science, including those new to the field. It treats the many different techniques now available for exoplanet detection and characterisation, the broad range of underlying physics, the overlap with related topics in solar system and Earth sciences, and the concepts underpinning future developments. It emphasises the interconnection between the various fields and provides extensive references to more in-depth treatments and reviews.

Handbook of Exoplanets Hans J. Deeg, Juan Antonio Belmonte, 2018-06-15 This state-of-the-art reference work includes

over 15 sections dealing with all aspects of exoplanets and exobiology research, including historic aspects, the Solar System as a template, objects at the planet-to-star transition, exoplanet detection and characterization with related instrumentation, technology and software tools, planet and planet-system statistics with recent and planned surveys, their atmosphere and formation and evolution processes, habitability and exobiology implications, and outlooks for future exploration and science development, including visionary contributions. Each section has 10-20 contributions written by the top experts in their subject, including both senior researchers as well as young, smart researchers who represent the future of the discipline. All in all, this handbook comprehensively tackles one of the most challenging and dynamic fields of modern astronomy and astrophysics.

Exoplanet Atmospheres Sara Seager,2010-08-02 Over the past twenty years, astronomers have identified hundreds of extrasolar planets--planets orbiting stars other than the sun. Recent research in this burgeoning field has made it possible to observe and measure the atmospheres of these exoplanets. This is the first textbook to describe the basic physical processes-including radiative transfer, molecular absorption, and chemical processes--common to all planetary atmospheres, as well as the transit, eclipse, and thermal phase variation observations that are unique to exoplanets. In each chapter, Sara Seager offers a conceptual introduction, examples that combine the relevant physics equations with real data, and exercises. Topics range from foundational knowledge, such as the origin of atmospheric composition and planetary spectra, to more advanced concepts, such as solutions to the radiative transfer equation, polarization, and molecular and condensate opacities. Since planets vary widely in their atmospheric properties, Seager emphasizes the major physical processes that govern all planetary atmospheres in astronomy and earth sciences, one that will help prepare them for the next generation of planetary science. The first textbook to describe exoplanet atmospheres Illustrates concepts using examples grounded in real data Provides a step-by-step guide to understanding the structure and emergent spectrum of a planetary atmosphere Includes exercises for students

Exoplanets Sara Seager,2011-01-15 For the first time in human history, we know for certain the existence of planets around other stars. Now the fastest-growing field in space science, the time is right for this fundamental source book on the topic which will lay the foundation for its continued growth. Exoplanets serves as both an introduction for the non-specialist and a foundation for the techniques and equations used in exoplanet observation by those dedicated to the field.

Fundamental Planetary Science Jack J. Lissauer, Imke de Pater, 2013-09-09 A quantitative introduction to the Solar System and planetary systems science for advanced undergraduate students, this engaging new textbook explains the wide variety of physical, chemical and geological processes that govern the motions and properties of planets. The authors provide an overview of our current knowledge and discuss some of the unanswered questions at the forefront of research in planetary

science and astrobiology today. They combine knowledge of the Solar System and the properties of extrasolar planets with astrophysical observations of ongoing star and planet formation, offering a comprehensive model for understanding the origin of planetary systems. The book concludes with an introduction to the fundamental properties of living organisms and the relationship that life has to its host planet. With more than 200 exercises to help students learn how to apply the concepts covered, this textbook is ideal for a one-semester or two-quarter course for undergraduate students.

Exoplanet Science Strategy National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Space Studies Board, Committee on Exoplanet Science Strategy, 2019-01-17 The past decade has delivered remarkable discoveries in the study of exoplanets. Hand-in-hand with these advances, a theoretical understanding of the myriad of processes that dictate the formation and evolution of planets has matured, spurred on by the avalanche of unexpected discoveries. Appreciation of the factors that make a planet hospitable to life has grown in sophistication, as has understanding of the context for biosignatures, the remotely detectable aspects of a planet's atmosphere or surface that reveal the presence of life. Exoplanet Science Strategy highlights strategic priorities for large, coordinated efforts that will support the scientific goals of the broad exoplanet science community. This report outlines a strategic plan that will answer lingering questions through a combination of large, ambitious community-supported efforts and support for diverse, creative, community-driven investigator research.

Exoplanet Observing for Amateurs Bruce L. Gary, 2007-08

<u>Transiting Exoplanets</u> Carole A. Haswell,2010-07-29 The methods used in the detection and characterisation of exoplanets are presented in this unique textbook for advanced undergraduates.

Fundamentals of Astrophysics Stan Owocki,2021-06-03 Introduces students with calculus-based physics, to fundamental astrophysical concepts, for a one-semester introduction to astrophysics.

Principles of Planetary Climate Raymond T. Pierrehumbert,2010-12-02 This book introduces the reader to all the basic physical building blocks of climate needed to understand the present and past climate of Earth, the climates of Solar System planets, and the climates of extrasolar planets. These building blocks include thermodynamics, infrared radiative transfer, scattering, surface heat transfer and various processes governing the evolution of atmospheric composition. Nearly four hundred problems are supplied to help consolidate the reader's understanding, and to lead the reader towards original research on planetary climate. This textbook is invaluable for advanced undergraduate or beginning graduate students in atmospheric science, Earth and planetary science, astrobiology, and physics. It also provides a superb reference text for researchers in these subjects, and is very suitable for academic researchers trained in physics or chemistry who wish to rapidly gain enough background to participate in the excitement of the new research opportunities opening in planetary climate.

Finding Our Place in the Solar System Todd Timberlake, Paul Wallace, 2019-03-28 Details the science behind the Copernican Revolution, the transition from the Earth-centered cosmos to a modern understanding of planetary orbits.

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

Astronomy: A Physical Perspective Marc L. Kutner,2003-07-31 This fully revised and updated text is a comprehensive introduction to astronomical objects and phenomena. By applying some basic physical principles to a variety of situations, students will learn how to relate everyday physics to the astronomical world. Starting with the simplest objects, the text contains explanations of how and why astronomical phenomena occur, and how astronomers collect and interpret information about stars, galaxies and the solar system. The text looks at the properties of stars, star formation and evolution; neutron stars and black holes; the nature of galaxies; and the structure of the universe. It examines the past, present and future states of the universe; and final chapters use the concepts that have been developed to study the solar system, its formation; the possibility of finding other planetary systems; and the search for extraterrestrial life. This comprehensive text contains useful equations, chapter summaries, worked examples and end-of-chapter problem sets.

An Introduction to Astrobiology David A. Rothery, Jain Gilmour, Mark A. Sephton, 2018-03-01 How did life on Earth begin? How common is it elsewhere in the Universe? Written and edited by planetary scientists and astrobiologists, this undergraduate-level textbook provides an introduction to the origin and nature of life, the habitable environments in our solar system and the techniques most successfully used for discovery and characterisation of exoplanets. This third edition has been thoroughly revised to embrace the latest developments in this field. Updated topics include the origins of water on Earth, the exploration of habitable environments on Mars, Europa and Enceladus, and the burgeoning discoveries in exoplanetary systems. Ideal for introductory courses on the subject, the textbook is also well-suited for self-study. It highlights important concepts and techniques in boxed summaries, with questions and exercises throughout the text, with full solutions provided. Online resources, hosted at www.cambridge.org/features/planets, include selected figures from the book, self-assessment questions and sample tutor assignments.

<u>Exoplanets</u> Michael E. Summers, James Trefil, 2017-03-14 The past few years have seen an incredible explosion in our knowledge of the universe. Since its 2009 launch, the Kepler satellite has discovered more than two thousand exoplanets, or planets outside our solar system. More exoplanets are being discovered all the time, and even more remarkable than the sheer number of exoplanets is their variety. In Exoplanets, astronomer Michael Summers and physicist James Trefil explore these remarkable recent discoveries: planets revolving around pulsars, planets made of diamond, planets that are mostly water, and numerous rogue planets wandering through the emptiness of space. This captivating book reveals the latest discoveries and argues that the incredible richness and complexity we are finding necessitates a change in our questions and

mental paradigms. In short, we have to change how we think about the universe and our place in it, because it is stranger and more interesting than we could have imagined.

Foundations of Astrophysics Barbara Ryden, Bradley M. Peterson, 2020-08-27 A contemporary and complete introduction to astrophysics for astronomy and physics majors taking a two-semester survey course.

The Origins of Modern Science Ofer Gal,2021-02-04 This book attempts to introduce to its readers major chapters in the history of science. It tries to present science as a human endeavor - a great achievement, and all the more human for it. In place of the story of progress and its obstacles or a parade of truths revealed, this book stresses the contingent and historical nature of scientific knowledge. Knowledge, science included, is always developed by real people, within communities, answering immediate needs and challenges shaped by place, culture, and historical events with resources drawn from their present and past. Chronologically, this book spans from Pythagorean mathematics to Newton's Principle. The book starts in the high Middle Ages and proceeds to introduce the readers to the historian's way of inquiry. At the center of this introduction is the Gothic Cathedral - a grand achievement of human knowledge, rooted in a complex cultural context, and a powerful metaphor for science. The book alternates thematic chapters with chapters concentrating on an era. Yet it attempts to integrate discussion of all different aspects of the making of knowledge: social and cultural settings, challenges and opportunities; intellectual motivations and worries; epistemological assumptions and technical ideas; instruments and procedures. The cathedral metaphor is evoked intermittently throughout, to tie the many themes discussed to the main lesson: that the complex set of beliefs, practices, and institutions we call science is a particular, contingent human phenomenon--

The Exoplanet Handbook Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**The Exoplanet Handbook**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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