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[The Little Book of Exoplanets](#) Joshua N. Winn, 2023-07-11 The first detection in 1995 of a planet orbiting a sun like star outside our solar system marked the dawn of a new age of discovery one that has rapidly transformed astronomy and our broader understanding of our place in the universe Nearly five thousand exoplanets have been identified since then with the pace of discovery only accelerating following the launch of missions like NASA's Transiting Exoplanet Satellite Survey and others to come We now know that most sun like stars host their own systems of planets analogous to our solar system and a few of these planets may potentially be like Earth But arguably the most remarkable discoveries so far have been of planets with unexpected decidedly un Earth like properties which have upended what we thought we knew about the origins of planets and planetary systems The Little Book of Exoplanets provides a concise cutting edge introduction to this field for general readers written by leading Princeton exoplanet scientist Josh Winn It offers an accessible view into the sophisticated detective work astronomers perform to detect and characterize exoplanets and describes the surprising sometimes downright bizarre planets and systems we have found Winn explains how these discoveries are revolutionizing astronomy and explores the current status and future of our search for another Earth He concludes with a reflection on how our discovery of exoplanets changes our perspective on the universe

[Exoplanetary Atmospheres](#) Kevin Heng, 2017-01-10 An essential introduction to the theory of exoplanetary atmospheres The study of exoplanetary atmospheres that is of planets orbiting stars beyond our solar system may be our best hope for discovering life elsewhere in the universe This dynamic interdisciplinary field requires practitioners to apply knowledge from atmospheric and climate science astronomy and astrophysics chemistry geology and geophysics planetary science and even biology Exoplanetary Atmospheres provides an essential introduction to the theoretical foundations of this cutting edge new science Exoplanetary Atmospheres covers the physics of radiation fluid dynamics atmospheric chemistry and atmospheric escape It draws on simple analytical models to aid learning and features a wealth of problem sets some of which are open ended This authoritative and accessible graduate textbook uses a coherent and self consistent set of notation and definitions throughout and also includes appendixes containing useful formulae in thermodynamics and vector calculus as well as selected Python scripts Exoplanetary Atmospheres prepares PhD students for research careers in the field and is ideal for self study as well as for use in a course setting The first graduate textbook on the theory of exoplanetary atmospheres Unifies knowledge from atmospheric and climate science astronomy and astrophysics chemistry planetary science and more Covers radiative transfer fluid dynamics atmospheric chemistry and atmospheric escape Provides simple analytical models and a wealth of problem sets Includes appendixes on thermodynamics vector calculus tabulated Gibbs free energies and Python scripts Solutions

manual available only to professors *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 *Methods of Detecting Exoplanets* Valerio Bozza, Luigi Mancini, Alessandro Sozzetti, 2016-04-12 In this book renowned scientists describe the various techniques used to detect and characterize extrasolar planets or exoplanets with a view to unveiling the tricks of the trade of planet detection to a wider community The radial velocity method transit method microlensing method and direct imaging method are all clearly explained drawing attention to their advantages and limitations and highlighting the complementary roles that they can play in improving the characterization of exoplanets physical and orbital properties By probing the planetary frequency at different distances and in different conditions these techniques are helping astrophysicists to reconstruct the scenarios of planetary formation and to give robust scientific answers to questions regarding the frequency of potentially habitable worlds Twenty years have passed since the discovery of a Jupiter mass companion to a main sequence star other than the Sun heralding the birth of extrasolar planetary research this book fully conveys the exciting progress that has been achieved during the intervening period 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 Astrophysics of Exoplanetary Atmospheres Valerio Bozza, Luigi Mancini, Alessandro Sozzetti, 2018-07-05 In this book renowned scientists describe the complexity of exoplanetary atmospheres and all of the observational techniques that are employed to probe them Readers will also find a panoramic description of the atmospheres of the planets within the Solar System with explanation of considerations especially relevant to exoplanets Over the past few years thousands of exoplanets have been discovered orbiting around stars relatively close to the Solar System Astronomers have revealed how varied these exoplanets are rocky icy giant and how diverse their architecture can be confirming science fiction images in several cases and extending beyond the human imagination in others The natural next step is to study their atmospheres and to understand their chemical composition and the physical processes taking place in their interiors with the aim of detecting biomarkers This book will appeal to all who seek a comprehensive state of the art account of the latest knowledge in the rapidly developing and highly interdisciplinary field of exoplanet research **Transiting Exoplanets** 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 **The Exoplanet Handbook** M. A. C. Perryman, 2014 Exoplanets John Mason, 2008-01-31 This is the first collection of review articles in one volume covering the very latest developments in exoplanet research This edited multi author volume will be an invaluable introduction and reference to all key aspects in the field this field The reviews cover topics such as the properties of known exoplanets and searching for exoplanets in the stellar graveyard The book provides an easily accessible point of reference in a fast moving and exciting field Handbook of Exoplanets Hans J. Deeg, Juan Antonio Belmonte, 2018

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

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