

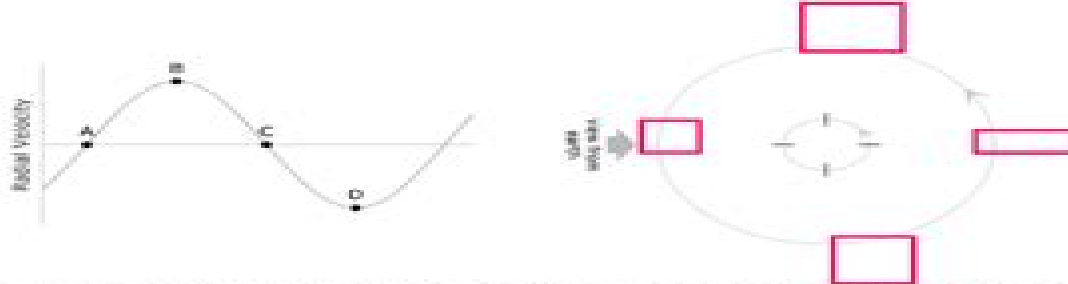
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ExtraSolar Planets – Student Guide

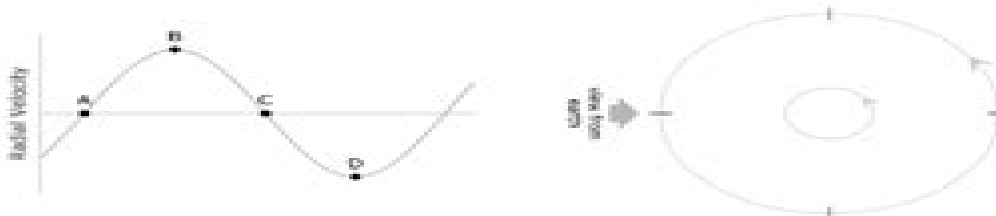
Background Material

Complete the following sections after reviewing the background pages entitled Introduction, Doppler Shift, Center of Mass, and ExtraSolar Planet Detection.

Question 1: Label the positions on the star's orbit with the letters corresponding to the labeled positions of the radial velocity curve. Remember, the radial velocity is positive when the star is moving away from the earth and negative when the star is moving towards the earth.



Question 2: Label the positions on the planet's orbit with the letters corresponding to the labeled positions of the radial velocity curve. Hint: the radial velocity in the plot is still that of the star, so for each of the planet positions determine where the star would be and in which direction it would be moving.



Extrasolar Planets Naap Answers

Jin-Ying Zhang



Extrasolar Planets Naap Answers:

Planetary Systems Marc Ollivier,Thérèse Encrenaz,Francoise Roques,Franck Selsis,Fabienne Casoli,2008-11-27 Over the past ten years the discovery of extrasolar planets has opened a new field of astronomy and this area of research is rapidly growing from both the observational and theoretical point of view The presence of many giant exoplanets in the close vicinity of their star shows that these newly discovered planetary systems are very different from the solar system New theoretical models are being developed in order to understand their formation scenarios and new observational methods are being implemented to increase the sensitivity of exoplanet detections In the present book the authors address the question of planetary systems from all aspects Starting from the facts the detection of more than 300 extraterrestrial planets they first describe the various methods used for these discoveries and propose a synthetic analysis of their global properties They then consider the observations of young stars and circumstellar disks and address the case of the solar system as a specific example different from the newly discovered systems Then the study of planetary systems and of exoplanets is presented from a more theoretical point of view The book ends with an outlook to future astronomical projects and a description of the search for life on exoplanets This book addresses students and researchers who wish to better understand this newly expanding field of research

Extrasolar Planets Stuart G. Clark,1998-11-24 Provides an overview of the developments in the search for planetary sized bodies orbiting Sun like stars Discusses the formation and evolution of stars and the processes leading to the formation of protoplanetary discs planetesimals embryonic planets and complete planetary systems Also examined are the techniques currently being employed for the detection of extrasolar planets and the results of those searches as well as the theoretical problems posed by giant planets with small orbital radii and those in eccentric orbits brown dwarfs and the possible planets around pulsars The final chapter speculates on finding habitable and inhabited worlds Annotation copyrighted by Book News Inc Portland OR

Exoplanets and Alien Solar Systems Tahir Yaqoob,2011 An unprecedented number of planets outside of the solar system have been found with an explosion in the number of discoveries in recent years Find out what has been happening in this rapidly advancing arena of human exploration what these extrasolar planets are like and why some traditional ideas face being thrown out

Extrasolar Planets Patrick Cassen,Tristan Guillot,A. Quirrenbach,2007-05-17 Research on extrasolar planets is one of the most exciting fields of activity in astrophysics In a decade only a huge step forward has been made from the early speculations on the existence of planets orbiting other stars to the first discoveries and to the characterization of extrasolar planets This breakthrough is the result of a growing interest of a large community of researchers as well as the development of a wide range of new observational techniques and facilities Based on their lectures given at the 31st Saas Fee Advanced Course Andreas Quirrenbach Tristan Guillot and Pat Cassen have written up up to date comprehensive lecture notes on the Detection and Characterization of Extrasolar Planets Physics of Substellar Objects Interiors Atmospheres Evolution and Protostellar Disks and Planet Formation This book will

serve graduate students lecturers and scientists entering the field of extrasolar planets as detailed and comprehensive introduction

Extrasolar Planets Hans Deeg, Juan Antonio Belmonte, Antonio Aparicio, 2007-10-18 This 2007 volume presents the lectures from the sixteenth Winter School of the Instituto de Astrofísica de Canarias which was dedicated to extrasolar planets Research into extrasolar planets is one of the most exciting fields of astrophysics and the past decade has seen a research leap from speculations on the existence of planets orbiting other stars to the discovery of around 200 planets to date The book covers a wide range of issues from the state of the art observational techniques used to detect extrasolar planets to the characterizations of these planets and the techniques used in the remote detection of life It also looks at the insights we can gain from our own Solar System and how we can apply them The contributors all of high standing in the field provide a balanced and varied introduction to extrasolar planets for research astronomers and graduate students bridging theoretical developments and observational advances

Extrasolar Planets and Their Host Stars Kaspar von Braun, Tabet Boyajian, 2017-07-18 This book explores the relations between physical parameters of extrasolar planets and their respective parent stars Planetary parameters are often directly dependent upon their stellar counterparts In addition the star is almost always the only visible component of the system and contains most of the system mass Consequently the parent star heavily influences every aspect of planetary physics and astrophysics Drs Kaspar von Braun and Tabet Boyajian use direct methods to characterize exoplanet host stars that minimize the number of assumptions needed to be made in the process The book provides a background on interferometric techniques for stellar diameter measurements illustrates the authors approach on using additional data to fully characterize the stars provides a comprehensive update on the current state of the field and examines in detail a number of historically significant and well studied exoplanetary systems

Exoplanets: Detection, Formation and Dynamics (IAU S249) International Astronomical Union. Symposium, 2008-07-10 In the 12 years since the first discovery of an exoplanet around a main sequence star 51 Peg more than 270 exoplanets have been detected The proceedings of IAU Symposium 249 present the latest theoretical and observational advances in the field of exoplanet research including the ongoing and future projects such as CoRoT and Kepler The volume opens with a review of exoplanet detection and orbital determination techniques before looking at the physics of gas giant atmospheres and close in stars The topics of planet formation migration and the dynamical evolution of protoplanetary disks and multi planet systems are also covered in detail IAU S249 is a useful reference for the graduate students and researchers working in the exciting field of exoplanet study

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

Extrasolar Planets Rudolf Dvorak, 2008-06-25 This latest up to date resource for research on extrasolar planets covers formation dynamics atmospheres and detection After a look at the formation of giant planets the book goes on to discuss the formation and dynamics of planets in resonances planets in double stars atmospheres and habitable zones detection via spectra and transits and the history and prospects of ESPs as well as satellite projects Edited by a renowned expert in solar system dynamics with chapters written by the leading experts in the method described from the US and Europe this is an ideal textbook for graduate students in astronomy and astronomers

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

The New Worlds Fabienne Casoli, Therese Encrenaz, 2007-04-25 Offering an engaging and complete story of the hunt for new worlds this volume fully details the detection and exploration of extrasolar planets It examines the very wide range of extrasolar planets that have been discovered during the past ten years and looks at what can be learned about such planets by studying the bodies in our own solar system It also discusses the formation of planetary systems the way in which such systems may evolve and the final systems of planets that result In addition the authors demonstrate how life might evolve on an extrasolar planet and how such life might be detected

Planetary Systems Marc Ollivier, Therese Encrenaz, Françoise Roques, Franck Selsis, Fabienne Casoli, 2008-12-17 Over the past ten years the discovery of extrasolar planets has opened a new field of astronomy and this area of research is rapidly growing from both the observational and theoretical point of view The presence of many giant exoplanets in the close vicinity of their star shows that these newly discovered planetary systems are very different from the solar system New theoretical models are being developed in order to understand their formation scenarios and new observational methods are being implemented to increase the sensitivity of exoplanet detections In the present book the authors address the question of planetary systems from all aspects Starting from the facts the detection of more than 300 extraterrestrial planets they first describe the various methods used for these discoveries and propose a synthetic analysis of their global properties They then consider the observations of young stars and circumstellar disks and address the case of the solar system as a specific example different from the newly discovered systems Then the study of planetary systems and of exoplanets is presented from a more

theoretical point of view The book ends with an outlook to future astronomical projects and a description of the search for life on exoplanets This book addresses students and researchers who wish to better understand this newly expanding field of research

The Planet Factory Elizabeth Tasker, 2017-09-07 Forget about rockets to Mars the future of space science lies with the search for exoplanets Twenty years ago the search for planets outside the Solar System was the preserve of science fiction writers Now it is one of the fastest growing fields in astronomy with thousands of exoplanets discovered to date and the number rising fast These new found worlds are more alien than anything in fiction Planets larger than Jupiter with years lasting a week others with two suns lighting their skies or with no sun at all Planets with diamond mantles supporting oceans of tar possible Earth sized worlds with split hemispheres of perpetual day and night waterworlds drowning under global oceans and volcanic lava planets awash with seas of magma The discovery of this diversity is just the beginning There is a whole galaxy of possibilities The Planet Factory tells the story of these exoplanets What can we learn about these faraway surface environments and planetary atmospheres And do the results hint at the tantalising possibility of alien life

Methods of Detecting Exoplanets Valerio Bozza, Luigi Mancini, Alessandro Sozzetti, 2018-04-22 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

Exoplanets John Mason, 2008-08-29 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

Distant Wanderers Bruce Dorminey, 2002 Recent discoveries of planet like objects circling other sun like stars have stirred enormous interest in what other planets may exist in the universe and whether they could support intelligent life This book takes us into the midst of this search for extrasolar planets Unlike other books it focuses on the people behind the searches many known personally by the author and the extraordinary technology that is currently on the drawing boards The author is an experienced award winning science journalist who was previously technology correspondent for the Financial Times of London He has written on

many topics in astronomy and astrobiology in over 35 different newspapers and magazines worldwide *Extrasolar Planets and Astrobiology* Caleb A. Scharf, 2009 This book offers an advanced introduction to the increasingly robust fields of extrasolar planets and astrobiology This book offers an advanced introduction to the increasingly robust fields of extrasolar planets and astrobiology No other text currently available applies this level of mathematics and physics while also providing an extensive grounding in key issues of chemistry biology and geophysics With extensive references to the literature and chapter ending exercises this book can be used as the core text for teaching undergraduate or introductory graduate level courses The text will also provide astrobiologists with an indispensable User's Manual when quick reference to key mathematical and physical techniques is needed A continually updated online component fully cross referenced with the text is also available Foreword by Geoff Marcy **City of Palo Alto Golf Course Corporation, \$1,800,000 Lease Revenue Bonds, Series 1978**, 1978 Introductory Notes on Planetary Science Colette Salyk, Kevin Lewis, 2020 Planets come in many different sizes and with many different compositions orbiting our Sun and countless other stars Understanding their properties and interactions requires an understanding of a diverse set of sub fields including orbital and atmospheric dynamics geology geophysics and chemistry This textbook provides a physics based tour of introductory planetary science concepts for undergraduate students majoring in astronomy planetary science or related fields It shows how principles and equations learned in introductory physics classes can be applied to study many aspects of planets including dynamics surfaces interiors and atmospheres It also includes chapters on the discovery and characterization of extrasolar planets and the physics of planet formation Key Features Covers a wide range of planetary science topics at an introductory level Coherently links the fields of solar system science exoplanetary science and planet formation Each chapter includes homework questions Includes python templates for reproducing and customizing the figures in the book **The Search for Extrasolar Planets** Volker Neise, 2009

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