

Exoplanet

United States. Congress. House. Committee on Science, Space, and Technology (2011). Subcommittee on Space,United States. Congress. House. Committee on Science, Space, and Technology (2011). Subcommittee on Research

Exoplanets Karen Latchana Kenney,2017 Learn about the planets that exist outside of our solar system, and the actions scientists are taking to learn more about them. --

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.

Exoplanets 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.

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.

How Do You Find an Exoplanet? John Asher Johnson,2015-12-29 An authoritative primer on the cutting-edge science of planet hunting Alien worlds have long been a staple of science fiction. But today, thanks to modern astronomical instrumentation and the achievements of many enterprising observational astronomers, the existence of planets outside our solar system—also known as exoplanets—has moved into the realm of science fact. With planet hunters finding ever smaller, more Earth-like worlds, our understanding of the cosmos is forever changed, yet the question of how astronomers make these discoveries often goes unanswered. How Do You Find an Exoplanet? is an authoritative primer on the four key techniques that today's planet hunters use to detect the feeble signals of planets orbiting distant stars. John Johnson provides you with an insider's perspective on this exciting cutting-edge science, showing how astronomers detect the wobble of stars caused by the gravitational tug of an orbiting planet, the slight diminution of light caused by a planet eclipsing its star, and the bending of space-time by stars and their planets, and how astronomers even directly take pictures of planets next to their bright central stars. Accessible to anyone with a basic foundation in college-level physics, How Do You Find an Exoplanet? sheds new light on the prospect of finding life outside our solar system, how surprising new observations suggest that we may not fully understand how planets form, and much more.

The Little Book of Exoplanets Joshua N. Winn,2023-07-11 A concise and accessible introduction to exoplanets that explains the cutting-edge science behind recent discoveries For centuries, people have speculated about the possibility of planets orbiting distant stars, but only since the 1990s has technology allowed astronomers to detect them. At this point, more than five thousand such exoplanets have been identified, with the pace of discovery accelerating after the launch of NASA's Transiting Exoplanet Survey Satellite and the Webb Space Telescope. In The Little Book of Exoplanets, Princeton astrophysicist Joshua Winn offers a brief and engaging introduction to the search for exoplanets and the cutting-edge science behind recent findings. In doing so, he chronicles the dawn of a new age of discovery—one that has rapidly transformed astronomy and our broader understanding of the universe. Scientists now know that many Sun-like stars host their own systems of planets, some of which may resemble our solar system and include planets similar to the Earth. But, Winn tells us, the most remarkable discoveries so far have been of planets with unexpected and decidedly un-Earth-like properties, which have upended what we thought we knew about the origins of planetary systems. Winn provides an inside view of the sophisticated detective work astronomers perform as they find and study exoplanets and describes the surprising—sometimes downright bizarre—planets and systems they have found. He explains how these discoveries are revolutionizing astronomy, and he explores the current status and possible future of the search for another Earth. Finally, drawing on his own and other scientists' work, he considers how the discovery of exoplanets and their faraway solar systems changes our perspectives on the universe and our place in it.

Exoplanets and Alien Solar Systems Tahir Yaqoob,2011-11 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.

Exoplanets C. R. Kitchin,2011-12-02 Exoplanets: Finding, Exploring, and Understanding Alien Worlds probes the basis for possible answers to the fundamentals questions asked about these planets orbiting stars other than our Sun. This book examines what such planets might be like, where they are, and how we find them. Until around ten years ago, the only planets that we knew about were within the Solar System. The first genuine planet beyond the confines of the Solar System was discovered only 1988. Since then another 350 or so exoplanets have been detected by various methods, and most of these haven been found in the last ten years. Although many more exoplanets discoveries may be expected to occur even as this book is being read, a large enough data set is now available to form the basis for an informed general account of exoplanets. The topic hence is an extremely hot one - all the more so because the recently launched Kepler spacecraft should soon start uncovering many more exoplanets, some perhaps comparable with the Earth (and therefore possibly alternative homes for mankind, if we could ever reach them). Exoplanets: Finding, Exploring, and Understanding Alien Life gives a comprehensive, balances, and above all accurate account of exoplanets.

Envisioning Exoplanets Michael Carroll,2020-10-13 Come along for the captivating hunt for planets like our own Envisioning Exoplanets traces the journey of astronomers and researchers on their quest to explore the universe for a planet like Earth. Exoplanets--worlds beyond our solar system--were once dismissed as science fiction. But now, with more than 4,000 confirmed exoplanets, countless possibilities exist for what remains to be uncovered in the universe. This book follows the exhilarating progression of exoplanet research from its earliest stages operating on the fringes of scientific research to the newest developments of renowned agencies around the world searching for planets capable of hosting life. Featuring provocative questions about the universe and more than 200 remarkable illustrations from Michael Carroll, Ron Miller, and other key members of the International Association of Astronomical Artists, Envisioning Exoplanets is an intergalactic visual voyage.

Worlds Without End Chris Impey,2023-04-25 The science of finding habitable planets beyond our solar system and the prospects for establishing human civilization away from our ever-less-habitable planetary home. Planet Earth, it turns out, may not be the best of all possible worlds—and lately humanity has been carelessly depleting resources, decimating species, and degrading everything needed for life. Meanwhile, human ingenuity has opened up a vista of habitable worlds well beyond our wildest dreams of outposts on Mars. Worlds without End is an expertly guided tour of this thrilling frontier in astronomy: the search for planets with the potential to host life. With the approachable style that has made him a leading interpreter of astronomy and space science, Chris Impey conducts readers across the vast, fast-developing field of astrobiology, surveying the dizzying advances carrying us ever closer to the discovery of life beyond Earth—and the prospect of humans living on another planet. Since the first exoplanet, or planet beyond our solar system, was

discovered in 1995, over 4,000 more have been pinpointed, including hundreds of Earth-like planets, many of them habitable, detected by the Kepler satellite. With a view spanning astronomy, planetary science, geology, chemistry, and biology, Impey provides a state-of-the-art account of what's behind this accelerating progress, what's next, and what it might mean for humanity's future. The existential threats that we face here on Earth lend urgency to this search, raising the question: Could space be our salvation? From the definition of habitability to the changing shape of space exploration—as it expands beyond the interests of government to the pursuits of private industry—Worlds without End shows us the science, on horizons near and far, that may hold the answers.

Exoplanet Atmospheres Sara Seager,2010-08-22 Describes 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.

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.

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.

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.

The Lost Planets John Wenz,2019-10-08 A fascinating account of the pioneering astronomer who claimed (erroneously) to have discovered a planet outside the solar system. There are innumerable planets revolving around innumerable stars across our galaxy. Between 2009 and 2018, NASA's Kepler space telescope discovered thousands of them. But exoplanets—planets outside the solar system—appeared in science fiction before they appeared in telescopes. Astronomers in the early decades of the twentieth century spent entire careers searching for planets in other stellar systems. In *The Lost Planets*, John Wenz offers an account of the pioneering astronomer Peter van de Kamp, who was one of the first to claim discovery of exoplanets. Van de Kamp, working at Swarthmore College's observatory, announced in 1963 that he had identified a planet around Barnard's Star, the second-closest star system to the Sun. He cited the deviations in Barnard's star's path—"wobbles" that suggested a large object was lurching around the star. Van de Kamp became something of a celebrity (appearing on a television show with "Mr. Wizard," Don Henry), but subsequent research did not support his claims. Wenz describes van de Kamp's stubborn refusal to accept that he was wrong, discusses the evidence found by other researchers, and explains recent advances in exoplanet detection, including transit, radial velocity, direct imaging, and microlensing. Van de Kamp retired from Swarthmore in 1972, and died in 1995 at 93. In 2009, Swarthmore named its new observatory the Peter van de Kamp Observatory. In the 1990s, astronomers discovered and confirmed the first planet outside our solar system. In 2018, an exoplanet was detected around Barnard's Star—not, however, the one van de Kamp thought he had discovered in 1963.

Exoplanets Seymour Simon,2018-03-27 Award-winning science writer Seymour Simon explores the farthest reaches of space in the brand-new *Exoplanets!* This nonfiction picture book is an excellent choice to share during homeschooling, in particular for children ages 6 to 8. It's a fun way to learn to read and as a supplement for activity books for children. There are thousands of exoplanets scattered throughout the Milky Way galaxy, and scientists are on a constant quest to find one just like Earth. In *Exoplanets*, Simon examines the planets outside of our solar system and uncovers what makes them habitable, our efforts to discover new life, and more. With clear, simple text and stunning full-color photographs, readers will explore the farthest reaches of space and explore the answer to the question: do aliens exist? This book includes an author's note, a glossary, an index, and supports the Common Core State Standards.

Host Stars and their Effects on Exoplanet Atmospheres Jeffrey Linsky,2019-05-23 Like planets in our solar system, exoplanets form, evolve, and interact with their host stars in many ways. As exoplanets acquire material and grow to the final size, their atmospheres are subjected to intense UV and X-radiation and high-energy particle bombardment from the young host star. Whether a planet can retain its atmosphere and the conditions for significant mass loss both depend upon the strength of the host star's high-energy radiation and wind, the distance of the exoplanet from its host star, the gravitational potential of the exoplanet, and the initial chemical composition of the exoplanet atmosphere. This introductory overview describes the physical processes responsible for the emission of radiation and acceleration of winds of host stars that together control the environment of an exoplanet, focusing on topics that are critically important for understanding exoplanetary atmospheres but are usually not posed from the perspective of host stars. Accordingly, both host stars and exoplanets are not studied in isolation but are treated as integrated systems. Stellar magnetic fields, which are the energy source for activity phenomena including high-energy radiation and winds, play a critical role in determining whether exoplanets are habitable. This text is primarily for researchers and graduate students who are studying exoplanet atmospheres and habitability, but who may not have a background in the physics and phenomenology of host stars that provide the environment in which exoplanets evolve. It provides a comprehensive overview of this broad topic rather than going deeply into many technical aspects but includes a large list of references to guide those interested in pursuing these questions. Nonspecialists with a scientific background should also find this text a valuable resource for understanding the critical issues of contemporary exoplanet research.

Exoplanet Discoveries United States. Congress. House. Committee on Science, Space, and Technology (2011). Subcommittee on Space,United States. Congress. House. Committee on Science, Space, and Technology (2011). Subcommittee on Research,2013

Exploring Exoplanets Deborah Kops,2017-08-01 Audisee® eBooks with Audio combine professional narration and text highlighting for an engaging read aloud experience! Could there be other planets in the universe similar to those in our solar system? Yes! Scientists have discovered worlds circling distant stars. They call these objects exoplanets. In this book, you'll learn how scientists detect these faraway worlds. As part of the Searchlight Books™ collection, this series explores outer space and sheds light on the question What's Amazing about Space? Fantastic photos, kid-friendly explanations of science concepts, and useful diagrams will help you discover the answers!

New Worlds in the Cosmos Michel Mayor,Pierre-Yves Frei,2003-09-25 Table of contents

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also forms from microtubules the nucleolus disappears and the nuclear

membrane breaks down name the stages of mitosis from longest to

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anaphase how does the timing of the complete cell cycle differ in

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diagram prophase during this phase the chromatids and the set of

replicated chromosomes are lines up beside each other horizontally

the sister chromatids have 20 beads each 5 beads on each of the four

strands the replicated chromosomes had 12 beads each 3 beads on

each

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new cells come from living cells new cells are formed by the process of

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divisions are used by organisms to repair tissue growth and

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major phases interphase and mitosis or the mitotic m phase interphase

is the longest part of the cell cycle this is when the cell grows and

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will align separate and move into new daughter cells

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web mitosis consists of four basic phases prophase metaphase

anaphase and telophase some textbooks list five breaking prophase

into an early phase called prophase and a late phase called

prometaphase these phases occur in strict sequential order and

cytokinesis the process of dividing the cell contents to make two new

cells starts

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web during this phase chromosomes line up in the middle mitosis

worksheet the diagram below shows six cells in various phases of the

cell cycle note the cells are not arranged in the order in which mitosis

occurs and one of the phases of mitosis occurs twice use the diagram

to answer questions 1 7 1 cells a and d show an early and a late stage

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sample answer the root tip of a plant contains actively dividing cells

making root tips excellent observation points for mitosis

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interphase will take the longest time of the cell cycle for approximately

20 hours and mitotic phase will take 4 hours supporting evidence my

supporting evidence for this claim is that interphase is the longest

phase and can take up to 18 20 hours

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mitosis cancer cells produce 117 minutes faster than regular cells how

do cancer cells differ from normal cells in time spent for each phase

normal cells require 640 minutes during interphase cancer cells only

need 380 for prophase cancerous cells need 15 minutes less than

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spindle starts to form the chromosomes start to condense and the

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mitosis is the division of the nucleus time for mitosis lab 16 answer key

time for metaphase 109 980 720 minutes 80 minutes time for mitosis

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cells

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