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Research Interests: Professor Sasselov studies, among other things, extrasolar planets, and he's a co-investigator on NASA's Kepler mission, which is monitoring 100,000 stars in a three-year hunt for exoplanets -- including Jupiter-sized giants.

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The innermost planet, with 14.2 Earth masses and a 2.8 day orbit, was discovered in 2004. The next planet out, the first known in this system and found in 1996, has a 14.7-day orbit. Then comes planet "c", with an orbit of 44.3 days. The fourth world is the newest discovery, having 45 Earth masses and an orbit of 260 days.

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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.

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.

This symposium was dedicated to science opportunities with the VLT. All major areas of astronomical research were discussed in the plenary sessions, ranging from where we stand in cosmology to the new frontiers in the solar system. The workshops published in this volume focussed on different ways of finding clusters of galaxies at high redshift, on gravitational lensing by distant compact clusters, on the use of stellar populations as distance, age or abundance indicators, and on the extraordinary progress made in the discovery of extrasolar planets. This book affords a glimpse of what will be at the center of astrophysical research in the forthcoming decade. It is addressed to researchers and graduate students.

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.

"Envisioning Exoplanets traces the journey of astronomers and researchers on their quest to explore the universe for a planet like Earth"--

This 2006 book acknowledges the importance of identifying the most crucial science to be performed by the superb Hubble Telescope. With this goal in mind, the book presents a review of some of the most important open questions in astronomy. World experts examine topics ranging from extrasolar planets and star formation to supermassive black holes and the reionization of the universe. Special emphasis is placed on what astronomical observations should be carried out during the next few years to enable breakthroughs in our understanding of a complex and dynamic universe. In particular, the reviewers attempt to identify those topics to which the Hubble Space Telescope can uniquely contribute. The special emphasis on future research makes this book an essential resource for both professional researchers and graduate students in astronomy and astrophysics.

In this highly accessible book, leading scientists from around the world give a general overview of research advances in their subject areas within the field of Astronomy. They describe some of their own cutting-edge research and give their visions of the future. Re-written in a popular and well-illustrated style, the articles are mainly derived from scholarly and authoritative papers published in special issues of the Royal SocietyOCOs Philosophical Transactions, the worldOCOs longest running scientific journal. Carefully selected by the journalOCOs editor, topics include the Big Bang creation of the universe, the formation and evolution of the stars and galaxies, cold dark matter, explosive sun-spot events, and humankindOCOs exploration of the solar system. The book conveys the excitement and enthusiasm of the authors for their work at the frontiers of astronomy. All are definitive reviews for people with a general interest in the future directions of science."

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.

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.