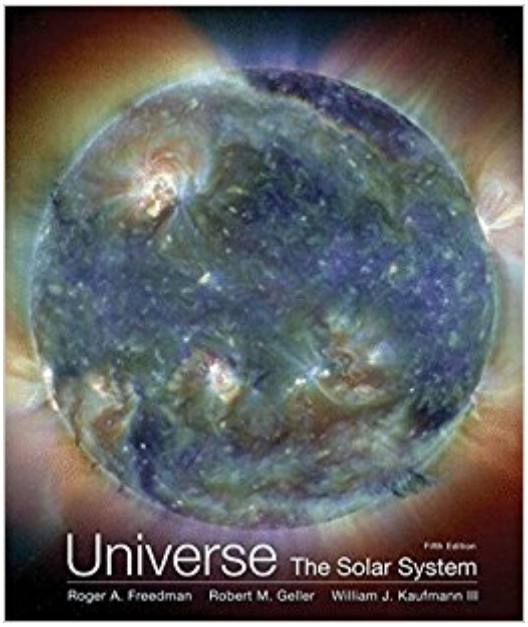
Universe: The Solar System



Synopsis

This is an abbreviated volume of Universe, focusing on the Solar System. The various Universe books place the basics of astronomy and the process of science within the grasp of introductory students. The 5th edition has been updated with new material and new discoveries.

Book Information

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Customer Reviews

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Roger A. Freedman is a Lecturer in Physics at the University of California, Santa Barbara, USA. At UCSB, Dr. Freedman has taught in both the Department of Physics and the College of Creative Studies, a branch of the university intended for highly gifted and motivated undergraduates. He has published research in nuclear physics, elementary particle physics, and laser physics. In recent years, he has helped to develop computer-based tools for learning introductory physics and astronomy and helped pioneer the use of classroom response systems and the "flipped" classroom model at UCSB. He is co-author of three introductory textbooks: University Physics (Pearson), Universe (Freeman), and Investigating Astronomy (Freeman). Robert M. Geller teaches and conducts research in astrophysics at the University of California, Santa Barbara, USA. Using data from the Hubble Space Telescope, he is currently involved in a search for bursts of lights that are predicted to occur when a supermassive black hole consumes a star. Dr. Gellar als has a strong emphasis on education, and he received the Distinguished Teaching Award at UCSB in 2003. William J. Kaufman III (deceased) was the author of the first four editions of Universe. During his

career he held positions at the Griffith Observatory in Los Angeles, San Diego State University, UCLA, Caltech, and the University of Illinois, USA. A prolific author, his many books include Black Holes and Warped Spacetime, Relativity and Cosmology, The Cosmic Frontiers of General Relativity, Exploration of the Solar System, Planets and Moons, Stars and Nebulas, Galaxies and Quasars, and Supercomputing and the Transformation of Science. Dr. Kaufmann died in 1994.

Very amusing to see an author reviewing his own book and two other "reviewers" putting in comments that should be directed to a customer feedback department rather than a book review! I wish to redress a wrong. My father did a university intro astronomy course in the 70s and the standard textbook then was "Exploration of the Universe", which I still have. "Universe" is light years ahead in presentation with magnificent illustrations, "Starry Night Enthusiast" planetarium software and other internet accessible items which graphically illustrate key concepts so beautifully. For example, supernova explosions, but there are dozens of things. I'm also a big fan of Dr Alex Filippenko who has done a DVD astronomy course and is co-author of "The Cosmos", a very similar book. As with "Exploration of the Universe" all of these books start with explanations of "local" phenomena, proceed logically to planets, stars, galaxies and finally cosmology, the biggest picture. However I think "Universe" is the best I've seen because of the accompanying CD and extras, and because it is written very clearly and lucidly. It's not at all dry like "Exploration of the Universe". Also very detailed. And apparently I'm not alone because I notice "Universe" is a mandatory textbook for some of the online "Astronomy Masters" courses, such as that at James Cook University. There are review questions at the end of each chapter for those seeking mathematical or problematic challenges, but the text is complete in itself. My interest in astronomy is at the level of enthusiastic amateur astronomer, and this book gives a thorough and well balanced background, something that increases the "wow" factor as you gaze through your telescope at the amazing, vast wonders of our universe, making me perceive the trivial pettiness of my own problems. Astronomy is a "cerebral" interest, you have to think about it to really appreciate it. Finally thanks to Dr Freedman for his review of his own book! I wish more authors would be involved in the promotion of their products, and customer responses. He shouldn't feel immodest at promoting it with five stars. The book deserves them!

It was for class. It's a book. It got damaged easily. But what can you expect putting it in and taking it out of your bag everyday?

Use this book for a course I teach in a college-level course in astronomy of the solar system for non-science majors. It's OK, but not great. It lacks some basic physics that I add on my own, for example, the equation for calculating ideal planet temperature based on simple radiation heat transfer. This is something that should be included in a college-level astronomy course. There are a few other tings like this as well that should be in the book but are not.

Most introductory astronomy texts take the descriptive approach and subject the student to very little mathematics. Such tomes assume that the student is taking the course to fulfill a core science requirement or to satiate non-technical interest. This text is a rare exception to this rule.Throughout the book simple explanations of the scientific phenomena discussed are detailed using algebra and trigonometry. Basic formulas are illustrated and ample problems are given to drive home the mathematical nature of astronomy. This text is perfect for the freshman or sophomore science major who requires a deeper knowledge of astronomy than a non-mathematical text could provide.Make no mistake, the text can be used easily in a general astronomy class that requires no math prerequisites. However, for the physics or astronomy major who is just starting her study of the subject, this text is the perfect blend of description and mathematics. It would also make a fine introductory graduate text for elementary and high-school teachers who wish to pursue a master's degree.The software on the enclosed CD-ROM disks makes visualizing the concepts presented within the text much easier. If one's physics department doesn't have access to a planetarium the software offered remedies the problem quite nicely.

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The universe with William Shatner. I saw this program once in maybe 1975. It was on tv at 6 am in the morning. I looked for this for many years. Was happy to finally find a copy of VHS. Interesting program about the Universe narrated by William Shatner. A little dated but most of the information is still very current. Well done program and interesting to have it narrated by William Shatner.

Astronomy from A-Z and everything in between. Although, as an Aussie, I found the constant Northern Hemisphere bias a little tiresome - but I us southerners did get a mention here and there. It's a really thorough introduction to the Universe and (almost) everything in it. It's not too complex for the uninitiated, but not too simple for those looking for more depth.This is a fabulous introduction....

Good book

Solar Power: The Ultimate Guide to Solar Power Energy and Lower Bills: (Off Grid Solar Power Systems, Home Solar Power System) (Living Off Grid, Wind And Solar Power Systems) DARK ENERGY: The Biggest Mystery In The Universe (dark matter, how the universe works, holographic universe, quantum physics) (black holes, parallel universe, the string theory) Uranus, Neptune, Pluto, and the Outer Solar System (The Solar System) Solar Cooking: Different Types of Solar Cookers: The Pros and Cons of Different Types of Solar Cookers and What Will Work Best For You Solar Electricity Handbook: 2017 Edition: A simple, practical guide to solar energy ? designing and installing solar photovoltaic systems. Solar Electricity Handbook - 2015 Edition: A simple, practical guide to solar energy - designing and installing solar PV systems. Solar Electricity Handbook - 2013 Edition: A Simple Practical Guide to Solar Energy - Designing and Installing Photovoltaic Solar Electric Systems Solar Electricity Handbook - 2014 Edition: A Simple Practical Guide to Solar Energy - Designing and Installing Photovoltaic Solar Electric Systems DIY: How to make solar cell panels easily with no experience!: Master Making Solar Panels Faster! (Master Solar Faster Book 1) Solar Electricity Handbook - 2012 Edition: A Simple Practical Guide to Solar Energy - Designing and Installing Photovoltaic Solar Electric Systems Mobile Solar Power Made Easy!: Mobile 12 volt off grid solar system design and installation. RV's, Vans, Cars and boats! Do-it-yourself step by step instructions Solar System for Kids: The Planets and Their Moons: Universe for Kids (Children's Astronomy & Space Books) Solar System for Kids : The Sun and Moon: Universe for Kids (Children's Astronomy & Space Books) Universe: Solar System, Stars, and Galaxies Universe: The Solar System Solar Eclipse 2017: The Complete Kids' Guide and Activity Book for the Great American Solar Eclipse How to Photograph the Solar Eclipse: An EASY Guide to Capturing the 2017 Total Eclipse of the Sun: An astrophotography beginner's guide to capturing solar eclipse Solar Eclipse Road Trip: The Complete Kids' Guide and Activity Book for the Great American Solar Eclipse of 2017 Solar Cooking for Home & Camp: How to Make and Use a Solar Cooker The Passive Solar House: Using Solar Design to Heat and Cool Your Home (Real Goods Independent Living Book)

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