

Comets II: The University Of Arizona Space Science Series - Exploring the Mysteries of the Cosmos

Comets have always fascinated and intrigued scientists and astronomers. These celestial bodies, often referred to as "dirty snowballs," hold valuable information about the early solar system and the formation of planets. In this article, we will explore the incredible research and discoveries presented in the University of Arizona Space Science Series - Comets II.

The University of Arizona has long been a hub for space exploration and scientific research. The Comets II series is a part of the Space Science Series, a collection of books that delve into various aspects of space science and astronomy. Comets II specifically focuses on the study of comets and aims to extend our understanding of these enigmatic objects.

The Importance of Comets

Comets are icy bodies that originate from the outer regions of our solar system, specifically the Kuiper Belt and the Oort Cloud. As they approach the Sun, the heat causes the ice to vaporize, producing a glowing coma and a tail that can extend for millions of miles. These tails are what make comets so visually stunning and captivating.

Comets II (The University of Arizona Space Science Series) by Joel Salatin(Kindle Edition)

★★★★☆ 4.6 out of 5

Language : English

File size : 87585 KB

Screen Reader : Supported

Print length : 780 pages



Hardcover : 330 pages
Item Weight : 1.5 pounds
Dimensions : 6 x 0.75 x 9 inches



Comets are thought to be remnants from the early stages of our solar system's formation, carrying the building blocks of life and crucial information about the conditions that led to the creation of our planet. Studying comets can provide valuable insights into the origins of Earth and the development of life as we know it.

Exploring Comets with The University of Arizona

The University of Arizona has been at the forefront of cometary research for many years. In *Comets II*, leading experts share their knowledge and discoveries, shedding light on the complex nature of these celestial bodies.

The book is divided into several sections, covering topics such as the physical characteristics of comets, their composition, the evolution of comets over time, and their interactions with the Sun and other celestial bodies.

One of the key highlights of *Comets II* is the discussion on the Rosetta mission, a groundbreaking space exploration endeavor led by the European Space Agency. The Rosetta spacecraft orbited Comet 67P/Churyumov-Gerasimenko, providing scientists with unprecedented data and images of a comet's nucleus.

Comets II also explores the role of comets in delivering water and organic compounds to Earth, offering insights into the possibility of extraterrestrial life. The book dives into the study of spectra, which helps identify the elements and molecules present in cometary plasmas.

Contributions to Scientific Knowledge

Comets II provides a comprehensive overview of the state of cometary research, outlining the significant advancements made in the field. It showcases the University of Arizona's contributions to scientific knowledge, highlighting the importance of continued exploration and understanding of comets.

By studying comets, scientists can gain a better understanding of the early solar system and the conditions that allowed life to thrive on Earth. This knowledge not only expands our understanding of our own planet but also carries implications for the search for extraterrestrial life on other worlds.

The University of Arizona Space Science Series - Comets II is a valuable resource for anyone interested in comets and the mysteries of the cosmos. It offers a comprehensive exploration of cometary research and highlights the importance of these celestial objects in unraveling the secrets of our existence.

Comets II reminds us of the continuous pursuit of knowledge that drives scientists and astronomers. It invites readers to join the journey of exploration and discovery as we uncover the wonders of the universe.

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The study of comets is a field that has seen tremendous advances in recent years, far surpassing the knowledge reflected in the original Comets volume published as part of the Space Science Series in 1982. This new volume, with more than seventy contributing authors, represents the first complete overview of comet science in more than a decade and contains the most extensive collection of knowledge yet assembled in the field.

Comets II situates comet science in the global context of astrophysics for the first time by beginning with a series of chapters that describe the connection between stars and planets. It continues with a presentation of the formation and evolution of planetary systems, enabling the reader to clearly see the key role played in our own solar system by the icy planetesimals that were the seeds of the giant planets and transneptunian objects.

The book presents the key results obtained during the 1990s, in particular those collected during the apparition of the exceptional comets C/Hyakutake and C/Hale-Bopp in 1996-1997. The latest results obtained from the in situ exploration of comets P/Borrelly and P/Wild 2 are also discussed in detail.

Each topic of is designed to be accessible to students or young researchers looking for basic, yet detailed, complete and accurate, information on comet science. With its emphasis on the origin of theories and the future of research, Comets II will enable scientists to make connections across disciplinary boundaries and will set the stage for discovery and new understanding in the coming years.



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