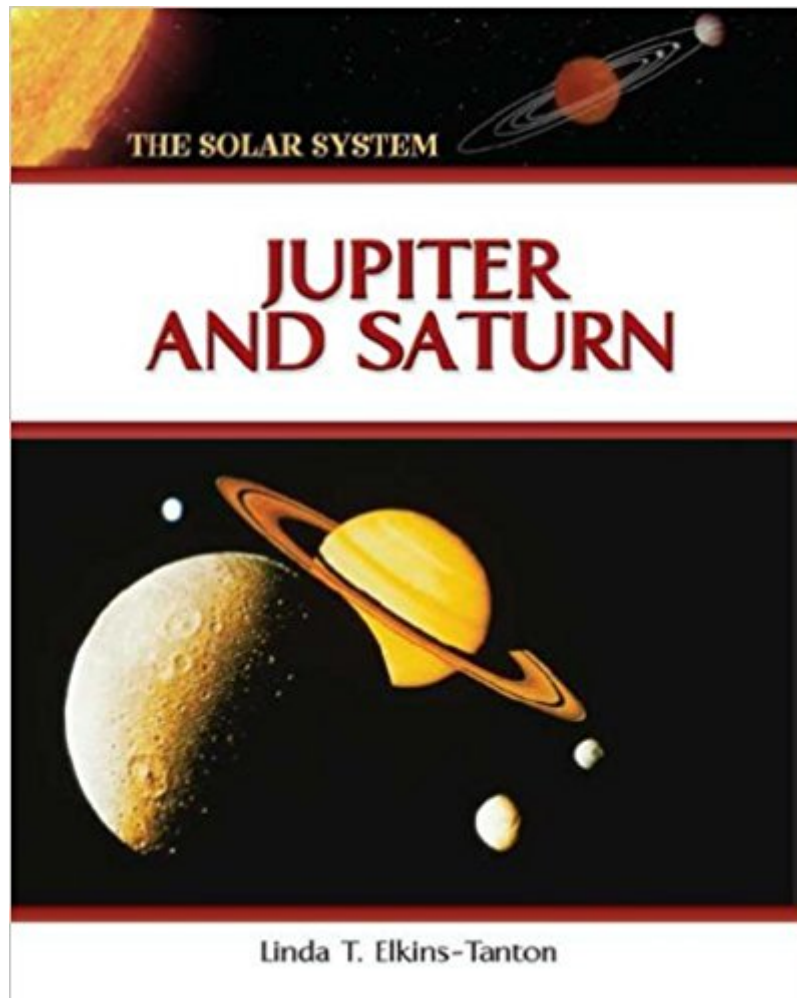




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Jupiter And Saturn (The Solar System)



Synopsis

In antiquity, Jupiter and Saturn formed a part of mankind's understanding of the gods, but toward the end of the Renaissance in the 17th century, the invention of the telescope allowed scientists to reform their ideas about these orbital bodies in the solar system. Because of their immense size and prominence, Jupiter and Saturn were immediate targets for observation by early astronomers. In a single, informative reference, "Jupiter and Saturn" discusses what is known and still unknown about Jupiter 200 years later in the development of telescopes and astronomy, as well as Saturn's interior structure, heat production, and magnetic field. This volume also explores the orbital movements of Jupiter in the solar system and its internal and external composition, movements, and temperatures, as well as Saturn's extensive ring system. Perfect for those interested in understanding the science and history behind the exploration of Jupiter and Saturn, this volume provides a detailed look into the geological profiles of these planets as they relate to the rest of the solar system.

Book Information

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Customer Reviews

Linda T. Elkins-Tanton, Ph.D., has a doctorate in geology and geophysics from the Massachusetts Institute of Technology (MIT). She is an expert on volcanic processes in terrestrial planets, effects of meteorite impacts, early lunar evolution, and the connections between meteorite impacts, flood basalts, and global extinction events. She has been published in the journals *Geology*, *Earth*, and *Planetary Science Letters*; *Geophysical Research Letters*; and *Geochimica et Cosmochimica*.

Although this book is stated to be for middle and high schoolers, it is the only work of its kind on Jupiter out there (and that's possibly true for Saturn as well, but can't say). That in itself makes it valuable, but the quality of the writing and clarity of the presentation hits it out of the park for all ages. Moreover, the sidebars on tangential topics -- explanations of key equations, rheology, inertia, etc are beautifully and clearly written. The only downside to the book's presentation is that it's mostly in black and white, which for space enthusiasts might be a minus. Also, based on the way it's marketed I'm sure most people would look at this as simply a reference for a school library, but it ought to be seriously considered for anyone interested in Jupiter, Saturn, planetology, and astronomy in general. For a future project perhaps Dr. Elikins-Tanton will turn it into a full-color book for a mass audience, which I'm sure exists.

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