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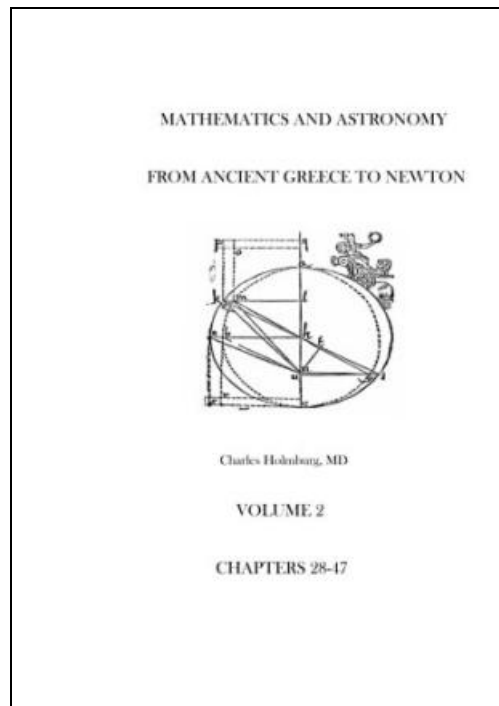

MATHEMATICS AND ASTRONOMY

FROM ANCIENT GREECE TO NEWTON

Charles Holmburg, MD

VOLUME 2

CHAPTERS 28-47

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Reviews

It is an awesome book that we have possibly go through. It is actually writter in straightforward words and phrases and not confusing. It is extremely difficult to leave it before concluding, once you begin to read the book.
(Tierra Kunde)

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CreateSpace Independent Publishing Platform. Paperback. Condition: New. This item is printed on demand. 814 pages. Dimensions: 10.0in. x 7.0in. x 1.8in.Book Discription: This is a three volume book on the history of astronomy and the development of mathematics to solve the problems of planetary motion as observed from the earth from the time of ancient Greece to Isaac Newton in the 17th century. It shows how the ancient Greek mathematicians used propositions from Euclid , Archimedes, Aristarchus, and Ptolemy to determine how an earth centered universe worked. Several chapters explain how Ptolemy developed a table of chords and arcs and invented trigonometry and spherical trigonometry. Then the book discusses the details of the Copernican system of a sun centered universe published in 1543, the data of Tycho Brahe, and how Kepler, using Tycho Brahes data, discovered the theory of the elliptical orbits for the planets. The work of Gallileo on the acceleration of gravity, the pendulum, and projectiles is discussed and demonstrated. The details of Gallileos experiments and methods, and how he supported the Copernican system is given. The last chapters are a description of the work of Isaac Newton and the development of the infinitesimal calculus, and how Newton used calculus to describe his laws of motion and universal gravitation. Descriptions of the work of Newtons contemporaries, Descartes, Barrow and Wallis are given, and how their work influenced Newton. A detailed mathematical discussion of how Newtons laws led to a demonstration of why the planets can orbit in ellipses. The book contains numerous geometrical drawings and demonstrations used by these mathematicians. In addition the modern notations used in algebra, analytic geometry, and calculus are presented so the reader can see and compare the modern expressions of mathematics to the way the earlier mathematicians expressed their work. The arguments in...

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