



Mathematics and Astronomy from Ancient Greece to Newton Volume 2 Chapters 28-47

By Charles E. Holmburg MD

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 Description: 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 Brahe's data, discovered the theory of the elliptical orbits for the planets. The work of Galileo on the acceleration of gravity, the pendulum, and projectiles is discussed and demonstrated. The details of Galileo's 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...



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