Five Millennium Catalog of Solar Eclipses: -1999 to +3000 (2000 Bce to 3000 Ce) - Revised (Paperback)

By National Aeronautics and Administration

Createspace, United States, 2014. Paperback. Condition: New. Revised. Language: English . Brand New Book ***** Print on Demand *****. Solar eclipse canons have traditionally been publications offering maps of past and future eclipse paths using the best ephemerides of their day for calculating the positions of the Sun and Moon. The first major work of this kind was Theodor von Oppolzer s 1887 Canon der Finsternisse (Translated as Canon of Eclipses, Gingerich, 1962). It stands as one of the greatest achievements in computational astronomy of the 19th century and contains the elements of all 8,000 solar eclipses (and 5,200 lunar eclipses) occurring between the years -1207 and +2161 (1208 BCE and 2161 CE, respectively), together with maps showing the approximate positions of the central lines. The recently published Five Millennium Canon of Solar Eclipses: -1999 to +3000 (Espenak and Meeus, 2007) con-tains individual maps for each of the 11,898 solar eclipses occurring over this period. The following points highlight the features and characteristics of this work. Based on modern theories of the Sun and the Moon constructed at the Bureau des Longitudes of Paris rather than the older Newcomb and Brown ephemerides; Ephemerides and eclipse predictions performed in Terrestrial Dynamical...

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