



**MATHEMATICAL  
ASTRONOMY**

**MORSELS**

JEAN MEEUS

# More Mathematical Astronomy Morsels

**Jean Meeus, J. M. A. Danby**



## **More Mathematical Astronomy Morsels:**

More Mathematical Astronomy Morsels Jean Meeus, 2002      More Mathematical Astronomy Morsels IV Jean Meeus, 2007      **Mathematical Astronomy Morsels** Jean Meeus, J. M. A. Danby, 1997      *Reflections on Observational Astronomy in the Medieval Islamic Period* S. Mohammad Mozaffari, 2024-12-13 This volume presents comprehensive investigations into various facets of observational astronomy during the medieval Islamic period spanning from the ninth to the seventeenth centuries The chapters compiled here originally published between 2012 and 2018 have undergone significant revisions to enhance their accuracy and explore a broad spectrum of topics organized into five main sections *Reflections on Observational Astronomy in the Medieval Islamic Period* begins with solar astronomy providing a detailed evaluation of Islamic astronomers determinations of fundamental solar parameters In the realm of lunar astronomy it examines the gradual endorsement and rationalization of annular solar eclipses along with an exclusive historical account of predicting and observing such an event in 1283 CE The section on planetary astronomy scrutinizes empirical discoveries that distinguish between the precession of equinoxes and the motion of apogees as well as significant enhancements to Ptolemy's parameters for planetary latitudes Stellar astronomy is explored through a non Ptolemaic star table that encompasses observations from ninth century Baghdad to thirteenth century Mar gha The final section examines observational instruments focusing on those constructed during the second period of activities at the Mar gha observatory A critical analysis of astronomical observations conducted at the Mar gha and Istanbul observatories is a key focus of this work This book will be invaluable to those interested in the historical progression of exact sciences the scope distinctive aspects and caliber of experimental activities in medieval times and the interplay between theory and observation throughout history It is intended for historians scientists including astronomers and physicists and particularly historians of astronomy      *Lunar and Planetary Webcam User's Guide* Martin Mobberley, 2006-08-03 In the last few years cheap webcams have revolutionized amateur astronomy by providing a very inexpensive alternative to purpose made astronomical CCD cameras which use refrigerated imaging chips and are thus extremely expensive Webcams are capable of more advanced work than normal digital cameras because their simple construction makes it easy to remove the webcam's lens allowing it to be interfaced directly to a telescope Using a webcam is not difficult but most amateur astronomers who have tried to do this do not achieve the finest results despite the webcam's potential There are numerous imaging and image processing tricks and techniques and all of them are needed to get the best results Along with webcam technology has come simple to use image processing and enhancement using a PC the most powerful technique is stacking in which the best images out of hundreds are selected and summed automatically to provide startlingly good results *Lunar and Planetary Webcam User's Guide* de mystifies the jargon of webcams and computer processing and provides detailed hints and tips for imaging the Sun Moon and planets with a webcam He looks at each observing target separately describing and explaining all specialised techniques in context

Glance through the images in this book to see just how much you can easily achieve by using a webcam with your telescope

**Venus in Transit** Eli Maor, 2021-02-09 In 2004 Venus crossed the sun's face for the first time since 1882. Some did not bother to step outside. Others planned for years, reserving tickets to see the transit in its entirety. But even this group of astronomers and experience seekers were attracted not by scientific purpose but by the event's beauty, rarity, and perhaps after this book's history. For previous sky watchers, though, transits afforded the only chance to determine the all-important astronomical unit, the mean distance between earth and sun. Eli Maor tells the intriguing tale of the five Venus transits previously observed and the fantastic efforts made to record them. This is a story of heroes and cowards, of reputations earned and squandered, all told against a backdrop of phenomenal geopolitical and scientific change. With a novelist's talent for the details that keep readers reading late, Maor tells the stories of how Kepler's misguided theology led him to the laws of planetary motion, of obscure Jeremiah Horrocks who predicted the 1639 transit only to die at age 22 a day before he was to discuss the event with the only other human known to have seen it, of the unfortunate Le Gentil whose decade of labor was rewarded with obscuring clouds, shipwreck, and the plundering of his estate by relatives who prematurely declared him dead, of David Rittenhouse, Father of American Astronomy, who was overcome by the 1769 transit's onset and failed to record its beginning, and of Maximilian Hell whose good name long suffered from the perusal of his transit notes by a color-blind critic. Moving beyond individual fates, Maor chronicles how governments' participation in the first international scientific effort, the observation of the 1761 transit from seventy stations, yielding a surprisingly accurate calculation of the astronomical unit, using Edmund Halley's posthumous directions, intersected with the Seven Years War, British South Seas expansion, and growing American scientific prominence. Throughout, Maor guides readers to the upcoming Venus transits in 2004 and 2012, opportunities to witness a phenomenon seen by no living person and not to be repeated until 2117. **Sky Guide Africa**

**South - 2019** Astronomical Handbook for South Africa, 2018-11-01 **Sky Guide Africa South 2019** is a practical resource for all astronomers, whether they be novice amateur or professional. It covers the upcoming year's planetary movements, predicted eclipses, meteor showers, any events, and facets of the night sky that change annually. Star charts plot the evening sky for each season, facilitating the identification of stars and constellations. The guide contains a wealth of information about the Sun, Moon, planets, comets, meteors, and bright stars, with photos, diagrams, charts, and images. There's also an excellent list of useful websites and a comprehensive glossary. This annual publication is an invaluable guide for anyone who has even a passing interest in the night skies of southern Africa and is an absolute must for first-time star gazers and professional astronomers alike. Sales points: Contains the latest, most up-to-date information, packed with charts, illustrations, images, tables, etc. for quick reference. Will appeal to a wide audience, from beginners to professionals. Includes tips on basic night sky gazing. Excellent value for money. **New Scientist**, 2002. *Journal de la Société Royale D'astronomie Du Canada* Royal Astronomical Society of Canada, 2009. Library catalogue in 1911. 31 p. appended to v 4. *Astronomy as a Model for the*

*Sciences in Early Modern Times* Menso Folkerts, Andreas Kühne, 2006      *Mathematical Reviews* ,2003      Norton's Star Atlas and Reference Handbook, Epoch 2000.0 Ian Ridpath, 2004 The most famous guide to the stars is now the most accessible Generations of amateur astronomers have called it simply Norton's the most famous star atlas in the world Now in a beautifully redesigned two color landmark 20th edition this combination star atlas and reference guide has no match in the field First published in 1910 coinciding with the first of two appearances by Halley's Comet last century Norton's owes much of its legendary success to its unique maps arranged in slices or gores each covering approximately one fifth of the sky Apart from being presented more accessibly than ever before the text and tables have been revised and updated to account for the new and exciting developments in our observation of the cosmos The star maps themselves were plotted using advanced computer techniques yielding outstanding accuracy and legibility Every heavenly object visible to the naked eye is included stars to magnitude 6 star clusters and galaxies as well as other celestial objects Presented with an authority that has stood for generations observation hints technical explanations and pointers to specialized information sources make this the only essential guide to the night sky The updated and revised hardcover 20th edition also has new moon maps clearer tables new diagrams and a section on the latest computer driven telescopes today's perfect home reference for curious minds from beginners to dedicated star gazers What are people saying The unique and time honored projection used in the Norton's star charts is particularly handy and has always been my favorite Professor Owen Gingerich Harvard Smithsonian Center for Astrophysics Once in a blue moon a book appears to dramatically and forever change its subject in short the work becomes an indispensable resource for generations Norton's Star Atlas is such a work Leif J Robinson Editor Emeritus Sky and Telescope Ian Ridpath is one of the most dedicated and prolific writers on astronomy His works all have clarity and authority and he is ideally suited to infuse new life into a classic Martin Rees Astronomer Royal University of Cambridge author of *Our Final Hour*      **Astronomical Calendar 2006** ,2005      Books In Print 2004-2005 Ed Bowker Staff, Staff Bowker, Ed, 2004      Astronomy Now ,1999      **Index de Périodiques Canadiens** ,2002      **Book Review Index - 2009 Cumulation** Dana Ferguson, 2009-08 Book Review Index provides quick access to reviews of books periodicals books on tape and electronic media representing a wide range of popular academic and professional interests The up to date coverage wide scope and inclusion of citations for both newly published and older materials make Book Review Index an exceptionally useful reference tool More than 600 publications are indexed including journals and national general interest publications and newspapers Book Review Index is available in a three issue subscription covering the current year or as an annual cumulation covering the past year      2005, □□□□      The Best Books for Academic Libraries: Science, technology, and agriculture ,2002      *Mathematical Astronomical Morsels* 4 Jean Meeus, 2007

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