



Math in astronomy

by Rodrigo Diez Borque

Mathematical Astronomy

Jean Meeus, J. M. A. Danby



Mathematical Astronomy:

Elementary Mathematical Astronomy Crossley William Crosby Barlow, George Hartley Bryan, 1893 *Elementary Mathematical Astronomy* Crossley William Crosby Barlow, George Hartley Bryan, 1923 *From Eudoxus to Einstein* C. M. Linton, 2004-08-12 Since man first looked towards the heavens a great deal of effort has been put into trying to predict and explain the motions of the sun moon and planets Developments in man's understanding have been closely linked to progress in the mathematical sciences Whole new areas of mathematics such as trigonometry were developed to aid astronomical calculations and on numerous occasions throughout history breakthroughs in astronomy have only been possible because of progress in mathematics This book describes the theories of planetary motion that have been developed through the ages beginning with the homocentric spheres of Eudoxus and ending with Einstein's general theory of relativity It emphasizes the interaction between progress in astronomy and in mathematics showing how the two have been inextricably linked since Babylonian times This valuable text is accessible to a wide audience from amateur astronomers to professional historians of astronomy *A History of Ancient Mathematical Astronomy* O. Neugebauer, 2004-09-17 From the reviews This monumental work will henceforth be the standard interpretation of ancient mathematical astronomy It is easy to point out its many virtues comprehensiveness and common sense are two of the most important Neugebauer has studied profoundly every relevant text in Akkadian Egyptian Greek and Latin no matter how fragmentary With the combination of mathematical rigor and a sober sense of the true nature of the evidence he has penetrated the astronomical and the historical significance of his material His work has been and will remain the most admired model for those working with mathematical and astronomical texts D Pingree in *Bibliotheca Orientalis* 1977 a work that is a landmark not only for the history of science but for the history of scholarship HAMA *History of Ancient Mathematical Astronomy* places the history of ancient Astronomy on an entirely new foundation We shall not soon see its equal N M Swerdlow in *Historia Mathematica* 1979 *Mathematical Astronomy in Copernicus' De Revolutionibus* N.M. Swerdlow, O. Neugebauer, 2012-12-06 When I first laid out the framework for *A History of Ancient Mathematical Astronomy* I intended to carry the discussion down to the last applications of Greek astronomical methodology i.e. Copernicus Brahe and Kepler But as the work proceeded it became evident that this plan was much too ambitious and so I decided to terminate my History with late antiquity well before Islam Nevertheless I did not discard the running commentary that I had prepared when studying *De revolutionibus* in its relation to the methodology of the *Almagest* Only recently E S Kennedy and his collaborators had opened access to the Maragha School mainly Ibn ash Shalir revealing close parallels to Copernicus's procedures Accordingly it seemed useful to make available a modern analysis of *De revolutionibus* and thus in 1975 I prepared for publication *Notes on Copernicus* In the meantime however Noel Swerdlow also starting from Greek astronomy not only extended his work into a deep analysis of *De revolutionibus* but also systematically investigated its sources and predecessors Peurbach Regiomontanus etc I was aware of these studies through

his publications as well as from numerous conversations on the subject at The Institute for Advanced Study and at Brown University It became clear to me that my own investigations lay at too superficial a level and I therefore withdrew my manuscript and suggested to Swerdlow that he undertake a thoroughgoing revision and amplification of my Notes His acceptance of my proposal initiated the present publication

Mathematical Astronomy Morsels Jean Meeus, J. M. A. Danby, 1997

Studies on the Transmission of Medieval Mathematical Astronomy Raymond Mercier, 2024-12-11

Studies on the Transmission of Medieval Mathematical Astronomy opens with a new survey of the transmission of Hellenistic astronomy followed by two studies on how the notion of precession was treated by Babylonian Greek Indian Arabic and Latin hands Next is a survey of the astronomical tables that appeared in Latin during the 12th century drawn mainly from Arabic and to some extent from Hebrew as well as a special study of the Latin tables for London and Pisa drawn originally from the 10th century Islamic astronomer al Sufi For the Sanskrit texts the focus is on the demonstration that the systems were founded on observations made in India even though much of the theory was Greek in origin On Byzantine material there are studies of the Persian Syntaxis whose source lay in the Persian Zij i Ilkhani and of the diverse materials drawn on by Gemistus Plethon Mercier's work shows that there is a unity in medieval astronomy in spite of the great diversity in cultural settings which included South and Central Asia the Middle East Byzantium and Europe The texts were recorded in all the major languages of this great region from Sanskrit to Latin over a period of time stretching from the late classical world to late medieval Europe Yet these astronomical texts have much in common drawn from the whole apparatus of Ptolemaic or rather more inclusively Greek astronomy Transmission is demonstrated partly by the continuity of technical terms and partly by the conservation and development of numerical parameters

History of Ancient Mathematical Astronomy: Otto Neugebauer, 1976-08

Mathematical Astronomy with a Pocket Calculator Aubrey Jones, 1978

A History of Ancient Mathematical Astronomy O. Neugebauer, 2004-09-17

From the reviews This monumental work will henceforth be the standard interpretation of ancient mathematical astronomy It is easy to point out its many virtues comprehensiveness and common sense are two of the most important Neugebauer has studied profoundly every relevant text in Akkadian Egyptian Greek and Latin no matter how fragmentary With the combination of mathematical rigor and a sober sense of the true nature of the evidence he has penetrated the astronomical and the historical significance of his material His work has been and will remain the most admired model for those working with mathematical and astronomical texts D Pingree in *Bibliotheca Orientalis* 1977 a work that is a landmark not only for the history of science but for the history of scholarship HAMA History of Ancient Mathematical Astronomy places the history of ancient Astronomy on a entirely new foundation We shall not soon see its equal N M Swerdlow in *Historia Mathematica* 1979

Elementary Mathematical Astronomy Crossley William Crosby Barlow, George Hartley Bryan, 1944

Mathematical Astronomy in Copernicus' De Revolutionibus N.M. Swerdlow, O. Neugebauer, 1984-07-02

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carry the discussion down to the last applications of Greek astronomical methodology i.e Copernicus Brahe and Kepler But as the work proceeded it became evident that this plan was much too ambitious and so I decided to terminate my History with late antiquity well before Islam Nevertheless I did not discard the running commentary that I had prepared when studying De revolutionibus in its relation to the methodology of the Almagest Only recently E S Kennedy and his collaborators had opened access to the Maragha School mainly Ibn ash Shalir revealing close parallels to Copernicus's procedures Accordingly it seemed useful to make available a modern analysis of De revolutionibus and thus in 1975 I prepared for publication Notes on Copernicus In the meantime however Noel Swerdlow also starting from Greek astronomy not only extended his work into a deep analysis of De revolutionibus but also systematically investigated its sources and predecessors Peurbach Regiomontanus etc I was aware of these studies through his publications as well as from numerous conversations on the subject at The Institute for Advanced Study and at Brown University It became clear to me that my own investigations lay at too superficial a level and I therefore withdrew my manuscript and suggested to Swerdlow that he undertake a thoroughgoing revision and amplification of my Notes His acceptance of my proposal initiated the present publication

Mathematical Astronomy for Amateurs E. A. Beet, 1972-05 This is a clear and simple introduction to the calculations that form the basis of all astronomical laws and observations Most elementary astronomy books are purely descriptive while textbooks of mathematical astronomy assume a considerable knowledge of mathematics Here the author relies only on simple school maths to help the amateur widen his horizons and interpret his observations

Mathematics Across Cultures Helaine Selin, 2012-12-06 Mathematics Across Cultures A History of Non Western Mathematics consists of essays dealing with the mathematical knowledge and beliefs of cultures outside the United States and Europe In addition to articles surveying Islamic Chinese Native American Aboriginal Australian Inca Egyptian and African mathematics among others the book includes essays on Rationality Logic and Mathematics and the transfer of knowledge from East to West The essays address the connections between science and culture and relate the mathematical practices to the cultures which produced them Each essay is well illustrated and contains an extensive bibliography Because the geographic range is global the book fills a gap in both the history of science and in cultural studies It should find a place on the bookshelves of advanced undergraduate students graduate students and scholars as well as in libraries serving those groups

A History of

Ancient Mathematical Astronomy, 1975 Mathematics in India Kim Plofker, 2009-01-18 Based on extensive research in Sanskrit sources Mathematics in India chronicles the development of mathematical techniques and texts in South Asia from antiquity to the early modern period Kim Plofker reexamines the few facts about Indian mathematics that have become common knowledge such as the Indian origin of Arabic numerals and she sets them in a larger textual and cultural framework The book details aspects of the subject that have been largely passed over in the past including the relationships between Indian mathematics and astronomy and their cross fertilizations with Islamic scientific traditions Plofker shows that

Indian mathematics appears not as a disconnected set of discoveries but as a lively diverse yet strongly unified discipline intimately linked to other Indian forms of learning Far more than in other areas of the history of mathematics the literature on Indian mathematics reveals huge discrepancies between what researchers generally agree on and what general readers pick up from popular ideas This book explains with candor the chief controversies causing these discrepancies both the flaws in many popular claims and the uncertainties underlying many scholarly conclusions Supplementing the main narrative are biographical resources for dozens of Indian mathematicians a guide to key features of Sanskrit for the non Indologist and illustrations of manuscripts inscriptions and artifacts Mathematics in India provides a rich and complex understanding of the Indian mathematical tradition Author s note The concept of computational positivism in Indian mathematical science mentioned on p 120 is due to Prof Roddam Narasimha and is explored in more detail in some of his works including The Indian half of Needham s question some thoughts on axioms models algorithms and computational positivism

Interdisciplinary Science Reviews 28 2003 1 13 **Mathematical Instrumentation in Fourteenth-Century Egypt and Syria** François Charette, 2003-06-01 This volume contains the critical edition with English translation of a richly illustrated Arabic treatise on the construction of over one hundred various astronomical instruments many of which are otherwise unknown to specialists It was composed by Najm al D n al Misr a rather shadowy figure in Cairo ca 1330 The edition is accompanied by a detailed technical and historical commentary which is framed as a self standing essay on Islamic mathematical instrumentation While this essay commentary is mainly based on Najm al D n s treatise it also benefits from the consultation of a large number of previously unstudied manuscripts and includes a discussion of all relevant sources from the period 800 1500 *Babylonian Mathematical Astronomy: Procedure Texts* Mathieu Ossendrijver, 2012-04-24 This book contains new translations and a new analysis of the procedure texts of Babylonian mathematical astronomy the earliest known form of mathematical astronomy of the ancient world The translations are based on a modern approach incorporating recent insights from Assyriology and translation science The work contains updated and expanded interpretations of the astronomical algorithms and investigations of previously ignored linguistic mathematical and other aspects of the procedure texts Special attention is paid to issues of mathematical representation and over 100 photos of cuneiform tablets dating from 350 50 BCE are presented In 2 3 years the author intends to continue his study of Babylonian mathematical astronomy with a new publication which will contain new editions and reconstructions of approx 250 tabular texts and a new philological astronomical and mathematical analysis of these texts Tabular texts are end products of Babylonian math astronomy computed with algorithms that are formulated in the present volume Procedure Texts [A History of Chinese Mathematics](#) Jean-Claude Martzloff, 2007-08-17 Since the end of the 19th century a number of specialised journals albeit with a large audience have regularly included articles on the history of Chinese mathematics while a number of books on the history of mathematics include a chapter on the subject Thus the progressive increase in our knowledge of the content of Chinese

mathematics has been accompanied by the realisation that as far as results are concerned there are numerous similarities between Chinese mathematics and other ancient and medieval mathematics. For example, Pythagoras' theorem, the double false position, Heron's formulae, and Ruffini-Horner's method are found almost everywhere. As far as the reasoning used to obtain these results is concerned, the fact that it is difficult to find rational justifications in the original texts has led to the reconstitution of proofs using appropriate tools of present-day elementary algebra. Consequently, the conclusion that Chinese mathematics is of a fundamentally algebraic nature has been ventured. However, in recent decades, new studies, particularly in China and Japan, have adopted a different approach to the original texts in that they have considered the Chinese modes of reasoning as these can be deduced from the rare texts which contain justifications. By studying the results and the methods explicitly mentioned in these texts, hand in hand, this Chinese and Japanese research has attempted to reconstruct the conceptions of ancient authors within a given culture and period without necessarily involving the convenient but often distorting social and conceptual framework of present-day mathematics.

Astronomy and Calendars - The Other Chinese Mathematics Jean-Claude Martzloff, 2016-09-01. Presented from the viewpoint of the history of mathematics, this book explores both epistemological aspects of Chinese traditional mathematical astronomy and lunisolar calendrical calculations. The following issues are addressed: 1. connections with non-Chinese cultural areas; 2. the possibility or impossibility of using mathematics to predict astronomical phenomena, a question that was constantly raised by the Chinese from antiquity through medieval times; 3. the modes of representation of numbers and, in particular, the zero found in the context of Chinese calendrical calculations; and 4. a detailed analysis of lunisolar calendrical calculations. Fully worked-out examples and comparisons between the results of calculations and the content of Chinese historical calendars from various periods are provided. Traditional Chinese calendrical and mathematical astronomy consists of permanently reformed mathematical procedures designed to predict but not explain phenomena pertaining to astronomy and related areas. Yet, despite appearances, models of the mathematical techniques hidden behind this voluminous corpus reveal that they depend on a limited number of clear-cut mathematical structures. Although only a small fraction of these techniques have been fully studied, what is known surprisingly broadens our knowledge of the history of Chinese mathematics. Sinologists interested in the history of Chinese science and anyone interested in the history of Chinese mathematics, the Chinese calendar, and the history of Chinese mathematical astronomy from its origin 104 BC to its European reform AD 1644 will find this book very useful. The present English language edition is a fully revised and updated version of the French original. Even though this is a research monograph in sinology, no particular sinological background is required, although a basic understanding of concrete mathematics is needed. From the reviews of the French edition: This is a demanding, rigorous book to read, worth the concentrated study it requires. The rewards are not only in the details but in the general overview that it provides. Joseph Dauben, EASTM 2011. First work in a Western language to turn to for anyone interested in the details of Chinese calendrical

computations Benno Van Dalen ISIS 2011 Martzloff's careful scholarship and his overall look at the calendar beyond astronomical calculations make this book a most valuable contribution to a field of increasing interest U D Ambrosio Mathematical Reviews 2013

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