

STUDIES ON THE TRANSMISSION OF MEDIEVAL MATHEMATICAL ASTRONOMY

Raymond Mercier

VARIORUM COLLECTED STUDIES
SERIES

An **Ashgate** Book

Studies On The Transmission Of Medieval Mathematical Astronomy

David A. King



Studies On The Transmission Of Medieval Mathematical Astronomy:

Studies on the Transmission of Medieval Mathematical Astronomy Raymond Mercier, 2004 **Astrolabes from Medieval Europe** David A. King, 2024-10-28 This is the fourth set of studies in the Variorum series by David King a leading authority on the history of astronomy in Islamic civilization and on medieval astronomical instruments European as well as Islamic The first of the eleven studies collected here deals with medieval instruments in general as precious historical sources The following papers focus on individual astrolabes from the European Middle Ages and early Renaissance that are of singular historical importance Two look at the origins of the simple universal horary quadrant and the complicated universal horary dial navicula The collection concludes with a list of all known medieval European astrolabes ordered chronologically by region Three landmark astrolabes are discussed 1 the earliest known European astrolabe from 10th century Catalonia that milieu in which the astrolabe first became known to Europeans 2 an astrolabe from 14th century Picardy bearing numerals written in monastic ciphers as well as a later dedication mentioning two friends of Erasmus 3 the splendid astrolabe presented in 1462 by the German astronomer Regiomontanus to his patron Cardinal Bessarion with its enigmatic angel and Latin dedication here presented in the context of other astrolabes of similar design from 15th century Vienna

Astronomy and Astrology in al-Andalus and the Maghrib Julio Samsó, 2023-05-31 This new volume of papers by Julio Sams deals with the development of astronomy and astrology in al Andalus and the Maghrib between the 10th and the 19th centuries Opening with a survey of the social history of the exact sciences in al Andalus the book then looks at astronomical tables the first stages of the introduction of al Khwarizmi s and al Battani s tables through the school of Maslama al Majriti the development of Ibn al Zarqalluh Azarquiel s theories in Maghribi zijes Ibn al Banna and Ibn Azzuz and the abandonment of this tradition towards the end of the 14th century From this period onwards new Eastern zijes Muhyi al Din al Maghribi Ibn al Shatir Ulugh Beg are introduced in the Maghrib and towards the beginning of the 17th century a translation of Abraham Zacut and Jos Vizinho s Almanach Perpetuum end of the 15th century becomes well known in the whole Islamic world from Morocco to the Yemen As well as zijes themselves the author also deals with theoretical astronomy the use of an elliptical deferent for Mercury in Ibn al Zarqalluh s equatorium and the criticisms of Ibn al Haytham and Jabir b Aflah on Ptolemy s determination of the parameters of the same planet and with the use of zijes for the calculation of horoscopes and an experimental astrological method for the correction of mean motion planetary tables Ibn Azzuz

Numerals and Arithmetic in the Middle Ages Charles Burnett, 2024-10-28 This volume the third by Charles Burnett in the Variorum series brings together articles on the different numeral forms used in the Middle Ages and their use in mathematical and other contexts Some pieces study the introduction of Hindu Arabic numerals into Western Europe documenting in more detail than anywhere else the different forms in which they are found before they acquired the standard shapes with which we are familiar today Others deal with experiments with other forms of numeration within Latin

script e.g. using the first nine Roman numerals as symbols with place value abbreviating the Roman numerals and using the Latin letters as numerals. The author discusses how different types of numerals are used for different purposes and the application of numerals to the abacus and to calculation with pen and ink. The studies include the critical edition of several Latin texts.

Islamic Astronomy and Geography David A. King, 2022-02-13. This volume of 12 studies mainly published during the past 15 years begins with an overview of the Islamic astronomy covering not only sophisticated mathematical astronomy and instrumentation but also simple folk astronomy and the ways in which astronomy was used in the service of religion. It continues with discussions of the importance of Islamic instruments and scientific manuscript illustrations. Three studies deal with the regional schools that developed in Islamic astronomy in this case Egypt and the Maghrib. Another focuses on a curious astrological table for calculating the length of life of any individual. The notion of the world centred on the sacred Kaaba in Mecca inspired both astronomers and proponents of folk astronomy to propose methods for finding the qibla or sacred direction towards the Kaaba; their activities are surveyed here. The interaction between the mathematical and folk traditions in astronomy is then illustrated by an 11th century text on the qibla in Transoxania. The last three studies deal with an account of the geodetic measurements sponsored by the Caliph al Ma'mun in the 9th century, a world map in the tradition of the 11th century polymath al-Biruni, alas corrupted by careless copying, and a table of geographical coordinates from 15th century Egypt.

Graeco-Arabic Astronomy for Twelfth-Century Latin Readers C. Philipp E. Nothaft, 2022-11-21. This volume makes available two little known twelfth century Latin sources on mathematical astronomy: the anonymous *Ptolomeus et multi sapientum* c. 1145, which is attributable to the famous Jewish astrologer Abraham Ibn Ezra, and the surviving second part of Robert of Chester's *Liber canonum*, which accompanied the Tables of London c. 1150. Both texts are introductory level works originally written to educate a Latin Christian audience in the concepts and techniques involved in computing with astronomical tables. They are here presented in critical editions with facing English translations. The accompanying introductions and in-depth commentaries elucidate their significance in the context of twelfth century Latin astronomy.

Islamic Astronomical Tables Benno van Dalen, 2023-05-31. This volume comprises nine articles on Islamic astronomy published since 1989 by Benno van Dalen. Van Dalen was the first historian of Islamic astronomy who made full use of the new possibilities of computers in the early 1990s. He implemented various statistical and numerical methods that can be used to determine the mathematical properties of medieval astronomical tables and utilized these to obtain entirely new until then unattainable historical results concerning the interdependence of individual tables and hence of entire astronomical works. His programmes for analysing tables, making sexagesimal calculations and converting calendar dates continue to be widely used. The five articles in the first part of this collection explain the principles of a range of statistical methods for determining unknown parameter values underlying astronomical tables and present extensive step by step examples for their use. The four articles in the second part provide extensive studies of materials in unpublished primary

sources on Islamic astronomy that heavily depend on these methods The volume is completed with a detailed index

Cosmos John North, 2008-07-15 The definitive history of humanity's search to find its place within the universe North charts the history of astronomy and cosmology from the Paleolithic period to the present day

Historiography of the History of Science in Islamicate Societies Sonja Brentjes, 2023-09-05 This book presents eight papers about important historiographical issues as debated in the history of science in Islamicate societies the history of science and philosophy of medieval Latin Europe and the history of mathematics as an academic discipline Six papers deal with themes about the sciences in Islamicate societies from the ninth to the seventeenth centuries among them novelty context and decline Two other papers discuss the historiographical practices of historians of mathematics and other disciplines in the nineteenth and twentieth centuries The central argument of the collected papers is that in addition and beyond the study of scientific texts and instruments historians of science in Islamicate societies need to pay attention to cultural material and social aspects that shaped the scientific activities of the authors and makers of such texts and instruments It is pointed out that the diachronic de contextualized comparison between methods and results of scholars from different centuries regions and cultures often leads to serious distortions of the historical record and is responsible for the long term neglect of scholarly activities after the so called Golden Age The book will appeal in particular to teachers of history of science in Islamicate societies to graduate students interested in issues of methodology and to historians of science grappling with the unresolved problems of how think and write about the sciences in concrete societies of the past instead of subsuming all extant texts instruments maps and other objects related to the sciences under macro level concepts like Islam or Latin Europe CS 1114

The Crest of the Peacock George Gheverghese Joseph, 2011 The contents of this book cover the history of mathematics the beginnings of written mathematics Egyptian and Mesopotamian mathematics special topics in Chinese mathematics and much more

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