

Theory And Observation In Ancient And Medieval Astronomy

Theory and Observation in Ancient and Medieval Astronomy Astronomies and Cultures in Early Medieval Europe A Survey of European Astronomical Tables in the Late Middle Ages Studies in Medieval Astronomy and Optics Islamic Astronomy and Medieval Spain The Role of Observations in Ancient and Medieval Astronomy On Both Sides of the Strait of Gibraltar The Stars in the Classical and Medieval Traditions The Transmission of Planetary Theories in Ancient and Medieval Astronomy Studies on the Transmission of Medieval Mathematical Astronomy Essays on Medieval Computational Astronomy Astronomy and Astrology in the Medieval Islamic World A Survey of European Astronomical Tables in the Late Middle Ages Planetary Diagrams for Roman Astronomy in Medieval Europe, CA 800–1500 Astronomy Across Cultures Planets, Stars, and Orbs Toward Modern Science: Studies in ancient and medieval science Schemata Of The Stars, The, Byzantine Astronomy From 1300 A.d. History of Oriental Astronomy Encyclopaedia of the History of Science, Technology, and Medicine in Non-Western Cultures Bernard R. Goldstein Stephen C. McCluskey Jos Chabos J.L. Mancha Julio Sams Willy Hartner Julio Sams Alena Hadrovov Otto Neugebauer Raymond Mercier Jos Chabos Bergon Edward S. Kennedy Jos Chabos Bruce Eastwood Helaine Selin Edward Grant Robert Palter Emmanuel Paschos S.M. Ansari Helaine Selin

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science Schemata Of The Stars, The, Byzantine Astronomy From 1300 A.d. History of Oriental Astronomy Encyclopaedia of the History of Science, Technology, and Medicine in Non-Western Cultures *Bernard R. Goldstein Stephen C. McCluskey Jos□ Chab□s J.L. Mancha Julio Sams□ Willy Hartner Julio Sams□ Alena Hadravov□ Otto Neugebauer Raymond Mercier Jos□ Chab□s Berg□n Edward S. Kennedy Jos□ Chab□s Bruce Eastwood Helaine Selin Edward Grant Robert Palter Emmanuel Paschos S.M. Ansari Helaine Selin*

this book provides an overview of the astronomical practices that continued through the so called dark ages like the astronomies of traditional societies early medieval astronomies established a religious framework of sacred time and ritual calendar here christian feasts tied to a pre christian ritual solar calendar the date of easter tied to the hebrew lunar calendar and the timing of monastic prayers in terms of the course of the stars coupled with the remnants of ancient geometrical astronomy these provided the framework for the rebirth of astronomy with the rise of the medieval universities

this is a survey of the numerous astronomical tables compiled in the late middle ages which represent a major intellectual enterprise such tables were often the best way available at the time for transmitting precise information to the reader

in this selection of studies j l mancha explores aspects of the development of medieval optics and astronomy including some medieval antecedents of the work of early modern astronomers the articles deal with latin hebrew and arabic texts and the process of translation and transmission of knowledge and focus on three main themes first the theory and astronomical use of the pinhole camera in the 12th and 13th centuries the texts edited here contain a solution to the problem of the formation of images cast by light through triangular apertures equivalent to kepler s a description of the correct procedure for measuring solar apparent diameters using finite apertures and a derivation of the sun s eccentricity from its apparent diameters at apogee and perigee second the characteristics of the latin and proven□al versions of levi ben gerson s astronomical work composed in collaboration with the author as well as his tables and canons for finding syzygies and the mathematical methods used in the derivation of parameters third different aspects of the survival of homocentric astronomy in the middle ages especially al bitruji s model for trepidation and the technique for calculating the hippopede resulting from eudoxan couples

this volume focuses on the development of astronomy in al andalus islamic spain relating it to the astronomical science of the latin west both islamic and european science survived the latin astronomical tradition after the arab conquest of 711 and then the influence of arabic science in christian spain

in on both sides of the strait of gibraltar julio samsó studies astronomy in al andalus muslim spain the maghrib and the christian kingdoms of the iberian peninsula he proves that the arabic latin hebrew castilian and catalan sources belong to the same tradition whose origin can be dated in the 11th century due to the changes in ptolemy's astronomical theory introduced by the toledan astronomer ibn al zarqalluh azarquiel the book also analyses the role of al andalus and the iberian peninsula in the transmission of islamic astronomy to europe and justifies the fact that eastern islamic works published after ca 950 ce were not accessible to medieval european scholars because they had not reached al andalus

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

during the middle ages and early modern times tables were a most successful and economical

way to present mathematical procedures and astronomical models and to facilitate computations before the sixteenth century astronomical models introduced by ptolemy in antiquity were rarely challenged and innovation consisted in elaborating new methods for calculating planetary positions and other celestial phenomena essays on medieval computational astronomy includes twelve articles that focus on astronomical tables offering many examples where the meaning and purpose of such tables has been determined by careful analysis in evaluating the work of medieval scholars we are mindful of the importance of applying criteria consistent with their own time which may be different from those appropriate for other periods

this collection of studies by edward kennedy looks first at questions of spherical astronomy celestial mapping and planetary models and then deals with astrological calculations throughout the author emphasises the importance of advances in mathematics for understanding the development of medieval arabic sciences this collection of studies based on previously unexploited manuscript sources in arabic and persian they were written by authors from the 9th through the 15th centuries whose locations reached from south china in the east through central asia the middle and near east and north africa to spain in the west the topics are predominately astronomical rather than astrological the former include eclipse predictions problems in spherical astronomy non ptolemaic planetary theory and the achievements of ulugh beg and his observatory astrological subjects treated are the method of calculating the ascendant and how to determine astrological houses and lots an astrological history of the career of genghis khan is also described

a survey of european astronomical tables in the late middle ages is a first attempt to classify and illustrate the numerous astronomical tables compiled from about the 10th century to the early 16th century in the latin west the compilation of astronomical tables was a major and dynamic intellectual enterprise these tables respond to a wide variety of astronomical problems and computational needs and contain a large number of ingenious solutions proposed by astronomers over the centuries in the absence of algebraic notation and mathematical graphing techniques a table was often the best way to transmit precise information to the reader indeed an astronomical table is not a just a list of data but a structured way to present numerical information of astronomical interest the whole book which is an excellent guide for all those who are interested in the history of medieval european astronomy and especially in

medieval astronomical tables julio sams□ university of barcelona

early medieval astronomy esp in the era of charlemagne his successors consisted of texts that went far beyond the boundaries of computus which modern scholars have long believed to be the only significant context for astronomical studies of that time the texts contained innovative diagrams where no other sign of divergence from the text could be seen such diagrams were found to provide an indication of understandings of the texts which were different from those of modern scholars contents astronomy its teaching in carolingian europe functions locations of planetary diagrams sources topics of planetary diagrams plinian diagrams macrobian diagrams calcidian diagrams capellan diagrams illus this is a print on demand publication

astronomy across cultures a history of non western astronomy consists of essays dealing with the astronomical knowledge and beliefs of cultures outside the united states and europe in addition to articles surveying islamic chinese native american aboriginal australian polynesian egyptian and tibetan astronomy among others the book includes essays on sky tales and why we tell them and astronomy and prehistory and astronomy and astrology the essays address the connections between science and culture and relate astronomical 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

edward grant describes the extraordinary range of themes ideas and arguments that constituted scholastic cosmology for approximately five hundred years from around 1200 to 1700 primary emphasis is placed on the world as a whole what might lie beyond it and the celestial region which extended from the moon to the outermost convex surface of the cosmos

most of the knowledge of ancient greek science survived through byzantine codices a short byzantine article extant in three manuscripts contains advanced astronomical ideas and pre copernican diagrams it presents improvements on ancient and medieval astronomy this important book includes the edited version and translation of the text and analyzes its content it surveys the development of astronomical models from ptolemy to byzantium and compares them mathematically with several works of arab astronomers as well as with the heliocentric

system of copernicus and newton

proceedings of the joint discussion 17 at the 23rd iau general assembly organised by the commission 41 held in kyoto japan august 25 26 1997

the encyclopaedia fills a gap in both the history of science and in cultural studies reference works on other cultures tend either to omit science completely or pay little attention to it and those on the history of science almost always start with the greeks with perhaps a mention of the islamic world as a translator of greek scientific works the purpose of the encyclopaedia is to bring together knowledge of many disparate fields in one place and to legitimize the study of other cultures science our aim is not to claim the superiority of other cultures but to engage in a mutual exchange of ideas the western academic divisions of science technology and medicine have been united in the encyclopaedia because in ancient cultures these disciplines were connected this work contributes to redressing the balance in the number of reference works devoted to the study of western science and encourages awareness of cultural diversity the encyclopaedia is the first compilation of this sort and it is testimony both to the earlier eurocentric view of academia as well as to the widened vision of today there is nothing that crosses disciplinary and geographic boundaries dealing with both scientific and philosophical issues to the extent that this work does xi personal note from the editor many years ago i taught african history at a secondary school in central africa

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