

# Theory And Observation In Ancient And Medieval Astronomy

**Olaf Pedersen**

**Theory and Observation in Ancient and Medieval Astronomy** Bernard R. Goldstein, 1985

Encyclopaedia of the History of Science, Technology, and Medicine in Non-Western Cultures Helaine Selin, 2013-11-11

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.

*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.

**Ancient Astronomical Observations and the Study of the Moon's Motion (1691-1757)** John M. Steele, 2012-02-17  
The discovery of a gradual acceleration in the moon's mean motion by Edmond Halley in the last decade of the seventeenth century led to a revival of interest in reports of astronomical observations from antiquity. These observations provided the only means to study the moon's 'secular acceleration', as this newly-discovered acceleration became known. This book contains the first detailed study of the use of ancient and medieval astronomical observations in order to investigate the moon's secular acceleration from its discovery by Halley to the establishment of the magnitude of the acceleration by Richard Dunthorne, Tobias Mayer and Jérôme Lalande in the 1740s and 1750s. Making extensive use of previously unstudied manuscripts, this work shows how different astronomers used the same small body of preserved ancient observations in different ways in their work on the secular acceleration. In addition, this work looks at the wider context of the study of the moon's secular acceleration, including its use in debates of biblical chronology, whether the heavens were made up of æther, and the use of astronomy in determining geographical longitude. It also discusses wider issues of the perceptions and knowledge of ancient and medieval astronomy in the early-modern period. This book will be of interest to historians of astronomy, astronomers and historians of the ancient world.

*Between Copernicus and Galileo* James M. Lattis, 2010-12-15  
*Between Copernicus and Galileo* is the story of Christoph Clavius, the Jesuit astronomer and teacher whose work helped set the standards by which Galileo's famous claims appeared so radical, and whose teachings guided the intellectual and scientific agenda of the Church in the central years of the Scientific Revolution. Though relatively unknown today, Clavius was enormously influential throughout Europe in the late sixteenth and early seventeenth centuries through his astronomy books—the standard texts used in many colleges and universities, and the tools with which Descartes, Gassendi, and Mersenne, among many others, learned their astronomy. James Lattis uses Clavius's own publications as well as archival materials to trace the central role Clavius played in integrating traditional Ptolemaic astronomy and Aristotelian natural philosophy into an orthodox cosmology. Although Clavius strongly resisted the new cosmologies of Copernicus and Tycho, Galileo's invention of the telescope ultimately eroded the Ptolemaic world view. By tracing Clavius's views from medieval cosmology the seventeenth century, Lattis illuminates the conceptual shift from Ptolemaic to Copernican astronomy and the social, intellectual, and theological impact of the Scientific Revolution.

**Early Physics and Astronomy** Olaf Pedersen, 1993-03-11  
The book describes how the scientific account of the world arose among the Greeks and developed in the Middle Ages.

**Observations and Predictions of Eclipse Times by Early Astronomers** J.M. Steele, 2013-04-17  
Eclipses have long been seen as important celestial phenomena, whether as omens affecting the future of kingdoms, or as useful astronomical

events to help in deriving essential parameters for theories of the motion of the moon and sun. This is the first book to collect together all presently known records of timed eclipse observations and predictions from antiquity to the time of the invention of the telescope. In addition to cataloguing and assessing the accuracy of the various records, which come from regions as diverse as Ancient Mesopotamia, China, and Europe, the sources in which they are found are described in detail. Related questions such as what type of clocks were used to time the observations, how the eclipse predictions were made, and how these prediction schemes were derived from the available observations are also considered. The results of this investigation have important consequences for how we understand the relationship between observation and theory in early science and the role of astronomy in early cultures, and will be of interest to historians of science, astronomers, and ancient and medieval historians.

**Literature 1987, Part 1** S. Böhme,U. Esser,H. Hefele,I. Heinrich,W. Hofmann,D. Krahn,V. R. Matas,L. D. Schmadel,G. Zech,2013-11-11 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of the literature concerning all aspects of astronomy, astrophysics, and their border fields. It is devoted to the recording, summarizing, and indexing of the relevant publications throughout the world. Astronomy and Astrophysics Abstracts is prepared by a special department of the Astronomisches Rechen-Institut under the auspices of the International Astronomical Union. Volume 43 records literature published in 1987 and received before August 15, 1987. Some older documents which we received late and which are not surveyed in earlier volumes are included too. We acknowledge with thanks contributions of our colleagues all over the world. We also express our gratitude to all organizations, observatories, and publishers which provide us with complimentary copies of their publications. Starting with Volume 33, all the recording, correction, and data processing work was done by means of computers. The recording was done by our technical staff members Ms. Helga Ballmann, Ms. Beate Gobel, Ms. Monika Kohl, Ms. Sylvia Matyssek, Ms. Doris Schmitz-Braunstein, Ms. Uta-Barbara Stegemann. Mr. Jochen Heidt and Mr. Kristopher Polzine supported our task by careful proof reading. It is a pleasure to thank them all for their encouragement. Heidelberg, October 1987 The Editors Contents Introduction . . . . . 1 Concordance Relation: PHYS-AAA 3 Abbreviations 5 Periodicals, Proceedings, Books, Activities 001 Periodicals . . . . . 10 002 Bibliographical Publications, Documentation, Catalogues, Data Bases 50 003 Books . . . . .

**Studies on Gersonides** Gad Freudenthal,2023-11-27 R. Levi ben Gershon (Gersonides, 1288-1344) is one of the greatest and most original figures of Medieval Jewish thought. He wrote numerous works in philosophy, science and biblical exegesis. Some of his scientific works, most notably his highly innovative Astronomy, were translated from Hebrew into Latin and could thus reach non-Jewish scholars. The twelve studies collected in this bilingual volume (English and French in equal parts) offer for the first time a comprehensive overview and assessment of Gersonides' work in astronomy, mathematics, logic, natural science, and psychology. Gersonides' contributions are analyzed within the context of contemporary philosophy

and science in Hebrew, Arabic, and Latin. New light is also shed on the reception of Gersonides' work within European science. The volume includes a very extensive bibliography of writings by and about Gersonides. From the contents: Part I: Gersonides' Astronomy: Bernard R. Goldstein, José Luis Mancha, José Chabas, Henri Hugonnard-Roche, Guy Beaujouan. Part II: Gersonides' Work in Mathematics: Tony Lévy, Karine Chemla, Serge Pahaut. Part III: Gersonides' Science in Its Relations to His Philosophy and Theology: Herbert A. Davidson, Tzvi Y. Langermann, Charles H. Manekin, Amos Funkenstein, Gad Freudenthal.

*A Survey of European Astronomical Tables in the Late Middle Ages* José Chabás, Bernard R. Goldstein, 2012-05-31 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.

**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 Marāgha. The final section examines observational instruments, focusing on those constructed during the second period of activities at the Marāgha observatory. A critical analysis of astronomical observations conducted at the Marāgha 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.

Jewish Translation History Robert Singerman, 2002-11-29 A classified bibliographic resource for tracing the history of Jewish translation activity from the Middle Ages to the present day, providing the researcher with over a thousand entries devoted solely to the Jewish role in the east-to-west transmission of Greek and Arab learning and science into Latin or Hebrew. Other major sections extend the coverage to modern times, taking special note of the absorption of European

literature into the Jewish cultural orbit via Hebrew, Yiddish, or Judezmo translations, for instance, or the translation and reception of Jewish literature written in Jewish languages into other languages such as Arabic, English, French, German, or Russian. This polyglot bibliography, the first of its kind, contains over 2,600 entries, is enhanced by a vast number of additional bibliographic notes leading to reviews and related resources, and is accompanied by both an author and a subject index.

*Transactions of the International Astronomical Union* E.A. Müller, A. Jappel, 2012-12-06 The General Assemblies of the International Astronomical Union are landmarks in the life of the world-wide astronomical community, as they review, at triennial intervals, the progress made in this scientific field, promulgate the most spectacular astronomical achievements, formulate scientific programmes for the years to come and, last but not least, deal with the administration and finances of the IAU. The Reports on Astronomy 1976, published as Transactions XVIIA (in 3 volumes) before the XVIth General Assembly, are a synopsis of the work done in astronomy from 1973 to 1975. The volume Highlights of Astronomy, as presented at the XVIth General Assembly of the IAU in Grenoble, 1976 includes some selected scientific topics, and will appear in the first half of 1977. Apart from the Invited Discourses and the Proceedings of the seven Joint Discussions, the Highlights volume No.4 contains the proceedings of two Joint Commissions Meetings.

**The Astronomy of Levi ben Gerson (1288-1344)** Bernard R. Goldstein, 2012-12-06 It would seem that S. Munk was the first modern scholar to draw attention to the significance of Levi ben Gerson's Astronomy, surely the most original work on astronomy written in Hebrew in the Middle Ages. Munk (1859, p. 500) called for a specialist to undertake a serious study of this work, but there was little response to his plea in the succeeding century. Indeed, this is the first edition of the Hebrew text of any part of Levi's Astronomy but for the table of contents (Renan, 1893, pp. 624-32), and the poems celebrating the invention of the Jacob Staff that appear in chapter 9 (Carlebach, 1910a, pp. 152-53). The text of Levi's Astronomy is written in a ponderous Hebrew style but the content sparkles with originality. The Ptolemaic tradition is subjected to a profound critique based on the idea that the planetary models must conform both to Levi's own observations as well as those of the ancients, and the claim that astronomical theory must be philosophically sound. The enduring vigor of the Ptolemaic tradition has been characterized by O. Neugebauer as follows: There is no better way to convince oneself of the inner coherence of ancient and medieval astronomy than to place side by side the Almagest, al-Battani's Opus astronomicum and Copernicus's De Revolutionibus. Chapter by chapter, theorem by theorem, table by table, these works run parallel (1957, pp. 205-6).

**Judaism and the Doctrine of Creation** Norbert M. Samuelson, 1994-11-24 The topic of this book is 'creation'. It breaks down into discussions of two distinct, but interrelated, questions: what does the universe look like, and what is its origin? The opinions about creation considered by Norbert Samuelson come from the Hebrew scriptures, Greek philosophy, Jewish philosophy and contemporary physics. His perspective is Jewish, liberal and philosophical. It is 'Jewish' because the

foundation of the discussion is biblical texts interpreted in the light of traditional rabbinic texts. It is 'philosophical' because the subject matter is important in both past and present philosophical texts, and to Jewish philosophy in particular. Finally, it is 'liberal' because the authorities consulted include heterodox as well as orthodox Jewish sources. The ensuing discussion leads to original conclusions about a diversity of topics, including the limits of human reason and religious faith, and the relevance of scientific models to religious doctrine.

The Alfonsine Tables of Toledo José Chabás, Bernard R. Goldstein, 2003-09-30 The Alfonsine Tables of Toledo is for historians working in the fields of astronomy, science, the Middle Ages, Spanish and other Romance languages. It is also of interest to scholars interested in the history of Castile, in Castilian-French relations in the Middle Ages and in the history of patronage. It explores the Castilian canons of the Alfonsine Tables and offers a study of their context, language, astronomical content, and diffusion. The Alfonsine Tables of Toledo is unique in that it: includes an edition of a crucial text in history of science; provides an explanation of astronomy as it was practiced in the Middle Ages; presents abundant material on early scientific language in Castilian; presents new material on the diffusion of Alfonsine astronomy in Europe; describes the role of royal patronage of science in a medieval context.

**Knowledge in Translation** Patrick Manning, Abigail Owen, 2018-09-19 In the second millennium CE, long before English became the language of science in the twentieth century, the act of translation was crucial for understanding and disseminating knowledge and information across linguistic and geographic boundaries. This volume considers the complexities of knowledge exchange through the practice of translation over the course of a millennium, across fields of knowledge—cartography, health and medicine, material construction, astronomy—and a wide geographical range, from Eurasia to Africa and the Americas. Contributors literate in Arabic, Catalan, Chinese, Greek, Hebrew, Italian, Japanese, Latin, Minnan, Ottoman, and Persian explore the history of science in the context of world and global history, investigating global patterns and implications in a multilingual and increasingly interconnected world. Chapters reveal cosmopolitan networks of shared practice and knowledge about the natural world from 1000 to 1800 CE, emphasizing both evolving scientific exchange and the emergence of innovative science. By unraveling the role of translation in cross-cultural communication, *Knowledge in Translation* highlights key moments of transmission, insight, and critical interpretation across linguistic and faith communities.

The History and Practice of Ancient Astronomy James Evans, 1998-10-01 The History and Practice of Ancient Astronomy combines new scholarship with hands-on science to bring readers into direct contact with the work of ancient astronomers. While tracing ideas from ancient Babylon to sixteenth-century Europe, the book places its greatest emphasis on the Greek period, when astronomers developed the geometric and philosophical ideas that have determined the subsequent character of Western astronomy. The author approaches this history through the concrete details of ancient astronomical practice.

Carefully organized and generously illustrated, the book can teach readers how to do real astronomy using the methods of ancient astronomers. For example, readers will learn to predict the next retrograde motion of Jupiter using either the arithmetical methods of the Babylonians or the geometric methods of Ptolemy. They will learn how to use an astrolabe and how to design sundials using Greek and Roman techniques. The book also contains supplementary exercises and patterns for making some working astronomical instruments, including an astrolabe and an equatorium. More than a presentation of astronomical methods, the book provides a critical look at the evidence used to reconstruct ancient astronomy. It includes extensive excerpts from ancient texts, meticulous documentation, and lively discussions of the role of astronomy in the various cultures. Accessible to a wide audience, this book will appeal to anyone interested in how our understanding of our place in the universe has changed and developed, from ancient times through the Renaissance.

**History of Jewish Philosophy** Daniel Frank, Oliver Leaman, 2005-10-20 Jewish philosophy is often presented as an addendum to Jewish religion rather than as a rich and varied tradition in its own right, but the History of Jewish Philosophy explores the entire scope and variety of Jewish philosophy from philosophical interpretations of the Bible right up to contemporary Jewish feminist and postmodernist thought. The links between Jewish philosophy and its wider cultural context are stressed, building up a comprehensive and historically sensitive view of Jewish philosophy and its place in the development of philosophy as a whole. Includes: · Detailed discussions of the most important Jewish philosophers and philosophical movements · Descriptions of the social and cultural contexts in which Jewish philosophical thought developed throughout the centuries · Contributions by 35 leading scholars in the field, from Britain, Canada, Israel and the US · Detailed and extensive bibliographies

[Jews and Blacks in the Early Modern World](#) Jonathan Schorsch, 2004-04-12 This book offers the first in-depth treatment of Jewish images of and behavior toward Blacks during the period of peak Jewish involvement in Atlantic slave-holding.

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