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Ptolemy's Star Catalogue



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THE HISTORY OF PTOLEMY'S STAR CATALOGUE



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Marcel A. Müller



The History Of Ptolemy's Star Catalogue:

The History of Ptolemy's Star Catalogue Gerd Graßhoff, 2013-03-07 Ptolemy's Almagest shares with Euclid's Elements the glory of being the scientific text longest in use. From its conception in the second century up to the late Renaissance this work determined astronomy as a science. During this time the Almagest was not only a work on astronomy; the subject was defined as what is described in the Almagest. The cautious emancipation of the late middle ages and the revolutionary creation of the new science in the 16th century are not conceivable without reference to the Almagest. This text lifted European astronomy to the high standard of knowledge on which the new science flourished. Before the Ptolemaic models of the orbits of the sun, the moon, and the planets had been refined by Arabic astronomers. They provided the structural elements with which Copernicus and Kepler ushered in the era of modern astronomy. The Almagest survived the destruction of its epicyclic representation of the planetary orbits in the conceptual traces left behind in the theories of its successors. The clear separation of the sidereal from the tropical year, the celestial coordinate systems, the concepts of time, the forms of the constellations, and brightness classifications of celestial objects are among many other things still part of the astronomical canon even today.

The History of Ptolemy's Star Catalogue Gerd Grasshoff, 1990-01-01 *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.

Geometrical and Statistical Methods of Analysis of Star Configurations Dating Ptolemy's Almagest A.T. Fomenko, 2018-01-31 This easy-to-follow book offers a statistical-geometrical approach for dating ancient star catalogs. The author's scientific methods reveal statistical properties of ancient catalogs and overcome the difficulties of their dating, originated by the low accuracy of these catalogs. Methods are tested on reliably dated

medieval star catalogs and applied to the star catalog of the Almagest Here the dating of Ptolemy's famous star catalog is reconsidered and recalculated using modern mathematical techniques The text provides necessary information from astronomy and astrometry It also covers the history of observational equipment and methods for measuring coordinates of stars Many chapters are devoted to the Almagest from a preliminary analysis to a global statistical processing of the catalog and its basic parts Mathematics are simplified in this book for easy reading This book will prove invaluable for mathematicians astronomers astrophysicists specialists in natural sciences historians interested in mathematical and statistical methods and second year mathematics students Features Ptolemy's Almagest Ptolemy, 2020-05-05 Ptolemy's Almagest is one of the most influential scientific works in history A masterpiece of technical exposition it was the basic textbook of astronomy for more than a thousand years and still is the main source for our knowledge of ancient astronomy This translation based on the standard Greek text of Heiberg makes the work accessible to English readers in an intelligible and reliable form It contains numerous corrections derived from medieval Arabic translations and extensive footnotes that take account of the great progress in understanding the work made in this century due to the discovery of Babylonian records and other researches It is designed to stand by itself as an interpretation of the original but it will also be useful as an aid to reading the Greek text *Encyclopedia of Cosmology (Routledge Revivals)* Norriss S. Hetherington, 2014-04-08 The Encyclopedia of Cosmology first published in 1993 recounts the history philosophical assumptions methodological ambiguities and human struggles that have influenced the various responses to the basic questions of cosmology through the ages as well as referencing important scientific theories Just as the recognition of social conventions in other cultures can lead to a more productive perspective on our own behaviour so too a study of the cosmologies of other times and places can enable us recognise elements of our own cosmology that might otherwise pass as inevitable developments Apart from modern natural science therefore this volume incorporates brief treatments of Native American Cave Dweller Chinese Egyptian Islamic Megalithic Mesopotamian Greek Medieval and Copernican cosmology leading to an appreciation of cosmology as an intellectual creation not merely a collection of facts It is a valuable reference tool for any student or academic with an interest in the history of science and cosmology specifically Ptolemy's Philosophy Jacqueline Feke, 2020-10-13 A stimulating intellectual history of Ptolemy's philosophy and his conception of a world in which mathematics reigns supreme The Greco Roman mathematician Claudius Ptolemy is one of the most significant figures in the history of science He is remembered today for his astronomy but his philosophy is almost entirely lost to history This groundbreaking book is the first to reconstruct Ptolemy's general philosophical system including his metaphysics epistemology and ethics and to explore its relationship to astronomy harmonics element theory astrology cosmology psychology and theology In this stimulating intellectual history Jacqueline Feke uncovers references to a complex and sophisticated philosophical agenda scattered among Ptolemy's technical studies in the physical and mathematical sciences

She shows how he developed a philosophy that was radical and even subversive appropriating ideas and turning them against the very philosophers from whom he drew influence Feke reveals how Ptolemy's unique system is at once a critique of prevailing philosophical trends and a conception of the world in which mathematics reigns supreme A compelling work of scholarship Ptolemy's Philosophy demonstrates how Ptolemy situated mathematics at the very foundation of all philosophy theoretical and practical and advanced the mathematical way of life as the true path to human perfection

New Insights From Recent Studies in Historical Astronomy: Following in the Footsteps of F. Richard Stephenson Wayne Orchiston, David A. Green, Richard Strom, 2014-11-24 This book contains papers from a conference held to celebrate the 70th birthday of one of the world's foremost astronomical historians Professor F Richard Stephenson the latest recipient of the American Astronomical Society's highest award for research in astronomical history the LeRoy Doggett Prize Reflecting Professor Stephenson's extensive research portfolio this book brings together under one cover papers on four different areas of scholarship applied historical astronomy which Stephenson founded Islamic astronomy Oriental astronomy and amateur astronomy These papers are penned by astronomers from Canada China England France Georgia Iran Japan Lebanon the Netherlands Portugal Thailand and the USA Its diverse coverage represents a wide cross section of the history of astronomy community Under discussion are ways in which recent research using historical data has provided new insights into auroral and solar activity supernovae and changes in the rotation rate of the Earth It also presents readers with results of recent research on leading historical figures in Islamic and Oriental astronomy and aspects of eighteenth and nineteenth century Australian British German and Portuguese amateur astronomy including the fascinating amateur turned professional syndrome

Probing The Past With Data Analytics And Ai Marc Thuillard, 2025-06-13 This comprehensive compendium explains the technical challenges and opportunities behind the most recent and successful applications in artificial intelligence AI and data analytics It focuses on applications that have the power to be adapted to many different fields and explains how AI can be implemented as an assistant in digital humanities It also introduces new methods and applications in classification trees networks and Bayesian learning The useful reference text benefits professionals academics researchers and graduate students in AI machine learning neural networks and bioinformatics and digital humanities

A Survey of the Almagest Olaf Pedersen, 2010-11-12 The Almagest by the Greek astronomer and mathematician Ptolemy is the most important surviving treatise on early mathematical astronomy offering historians valuable insight into the astronomy and mathematics of the ancient world Pedersen's 1974 publication A Survey of the Almagest is the most recent in a long tradition of companions to the Almagest Part paraphrase and part commentary Pedersen's work has earned the universal praise of historians and serves as the definitive introductory text for students interested in studying the Almagest In this revised edition Alexander Jones a distinguished authority on the history of early astronomy provides supplementary information and commentary to the original text to account for scholarship that has appeared since 1974 This revision also incorporates

various corrections to Pedersen's original text that have been identified since its publication. This volume is intended to provide students of the history of astronomy with a self-contained introduction to the *Almagest* helping them to understand and appreciate Ptolemy's great and classical work. *Mastering the History of Pure and Applied Mathematics* Toke Knudsen, Jessica Carter, 2024-06-04 The present collection of essays are published in honor of the distinguished historian of mathematics Professor Emeritus Jesper L. Tzen. In a career that spans more than four decades Professor L. Tzen's scholarly contributions have enhanced our understanding of the history, development and organization of mathematics. The essays cover a broad range of areas connected to Professor L. Tzen's work. In addition to this noteworthy scholarship Professor L. Tzen has always been an exemplary colleague providing support to peers as well as new faculty and graduate students. We dedicate this Festschrift to Professor L. Tzen as a scholarly role model, mentor, colleague and friend. Dictionary of World Biography Frank Northen Magill, Alison Aves, 2003-01-23 Containing 250 entries each volume of the *Dictionary of World Biography* contains examinations of the lives of the individuals who shaped their times and left their mark on world history. Much more than a *Who's Who*, each entry provides an in-depth essay on the life and career of the individual concerned. Essays commence with a quick reference section that provides basic facts on the individual's life and achievements and conclude with a fully annotated bibliography. The extended biography places the life and works of the individual within an historical context and the summary at the end of each essay provides a synopsis of the individual's place in history. Any student in the field will want to have one of these as a handy reference companion. *The Ancient World* Frank N. Magill, 2003-12-16 Containing 250 entries each volume of the *Dictionary of World Biography* contains examinations of the lives of the individuals who shaped their times and left their mark on world history. Much more than a *Who's Who*, each entry provides an in-depth essay on the life and career of the individual concerned. Essays commence with a quick reference section that provides basic facts on the individual's life and achievements and conclude with a fully annotated bibliography. The extended biography places the life and works of the individual within an historical context and the summary at the end of each essay provides a synopsis of the individual's place in history. Any student in the field will want to have one of these as a handy reference companion.

Astronomical Discoveries You Can Make, Too! Robert K. Buchheim, 2015-05-12 You too can follow in the steps of the great astronomers such as Hipparchus, Galileo, Kepler and Hubble who all contributed so much to our modern understanding of the cosmos. This book gives the student or amateur astronomer the following tools to replicate some of these seminal observations from their own homes. With your own eyes. Use your own observations and measurements to discover and confirm the phenomena of the seasons, the analemma and the equation of time, the logic behind celestial coordinates and even the precession of the equinoxes. With a consumer grade digital camera. Record the changing brightness of an eclipsing binary star and show that a pulsating star changes color as it brightens and dims. Add an inexpensive diffraction grating to your camera and see the variety of spectral features in the stars and demonstrate that the Sun's spectrum is similar to one

particular type of stellar spectrum With a backyard telescope Add a CCD imager and you can measure the scale of the Solar System and the distance to a nearby star You could even measure the distance to another galaxy and observe the cosmological redshift of the expanding universe Astronomical Discoveries You Can Make Too doesn't just tell you about the development of astronomy it shows you how to discover for yourself the essential features of the universe

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

The Science of Conjecture James Franklin, 2015-08 The Science of Conjecture provides a history of rational methods of dealing with uncertainty and explores the coming to consciousness of the human understanding of risk

Early Astronomy Hugh Thurston, 2012-12-06 People must have watched the skies from time immemorial Human beings have always shown intellectual curiosity in abundance and before the invention of modern distractions people had more time and more mental energy to devote to stargazing than we have Megaliths Chinese oracle bones Babylonian clay tablets and Mayan glyphs all yield evidence of early peoples interest in the skies To understand early astronomy we need to be familiar with various phenomena that could and still can be seen in the sky For instance it seems that some early people were interested in the points on the horizon where the moon rises or sets and marked the directions of these points with megaliths These directions go through a complicated cycle much more complicated than the cycle of the phases of the moon from new to full and back to new and more complicated than the cycle of the rising and setting directions of the sun Other peoples were interested in the irregular motions of the planets and in the way in which the times of rising of the various stars varied through the year so we need to know about these phenomena i.e. about retrogression and about heliacal rising to use the technical terms The book opens with an explanation of these matters Early astronomers did more than just gaze in awe at the heavenly bodies they tried to understand the complex details of their movements By 300 H.C.

Journal for the History of Astronomy, 2005

The Oxford Handbook of Science and Medicine in the Classical World Paul Keyser, with John Scarborough, 2018-06-26 This handbook synthesizes what is known and debated about science in the classical world of ancient Greece and Rome also

touching briefly on Egypt Mesopotamia India and China Each of its many essays provides a synthesis and synopsis of the concepts and models of one of the ancient natural sciences **Greek Thought** Jacques Brunschwig, Geoffrey Ernest Richard Lloyd, Pierre Pellegrin, 2000 In more than 60 essays by an international team of scholars this volume explores the full breadth and reach of Greek thought investigating what the Greeks knew as well as what they thought they knew and what they believed invented and understood about the possibilities of knowing 65 color illustrations Maps

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