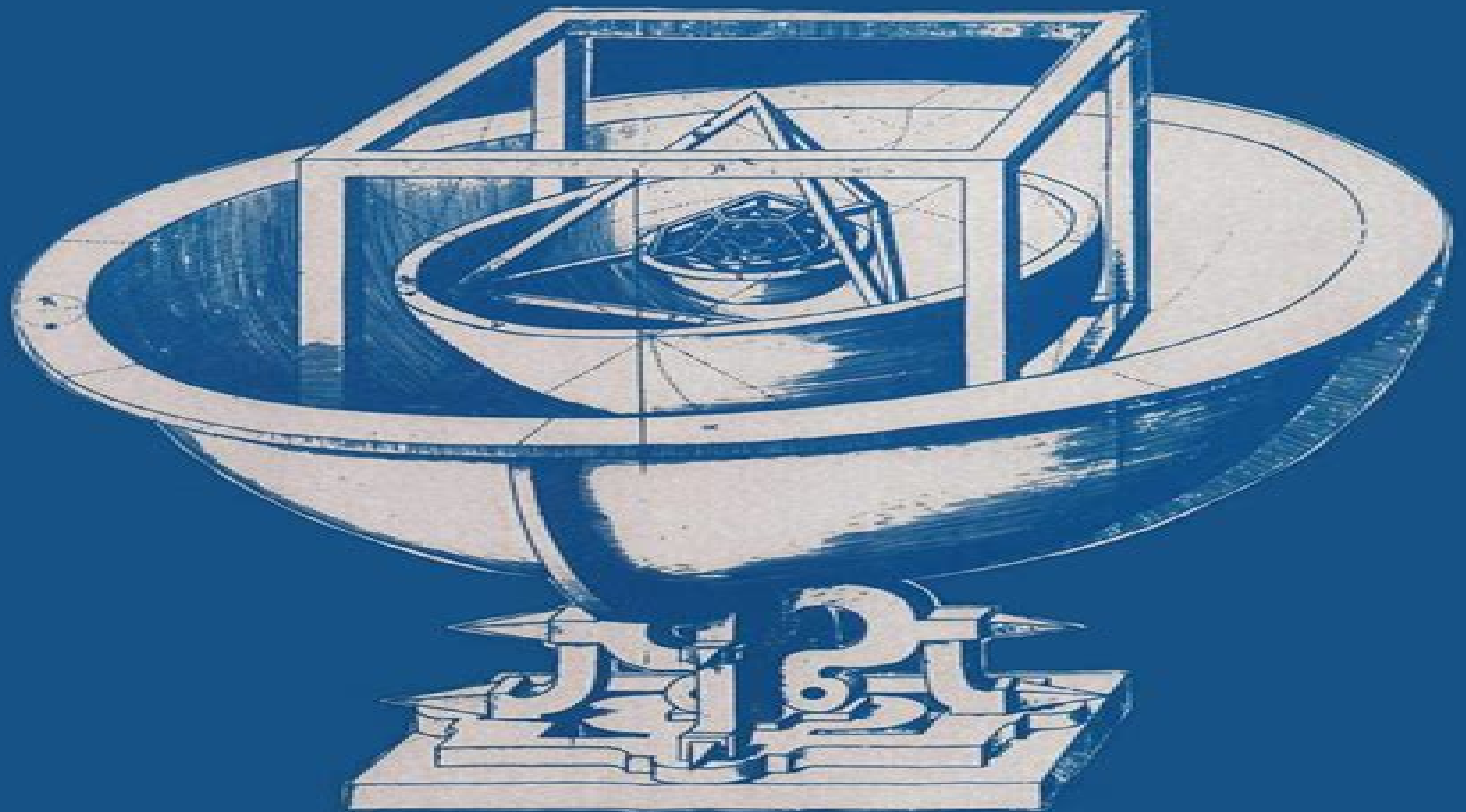

MEASURING THE UNIVERSE

Cosmic Dimensions from Aristarchus to Halley

ALBERT VAN HELDEN



Measuring The Universe Cosmic Dimensions From Aristarchus To Halley

Peter Whitfield



Measuring The Universe Cosmic Dimensions From Aristarchus To Halley:

Measuring the Universe Albert Van Helden, 2010-12-15 *Measuring the Universe* is the first history of the evolution of cosmic dimensions from the work of Eratosthenes and Aristarchus in the third century B C to the efforts of Edmond Halley 1656 1742 Van Helden's authoritative treatment is concise and informative he refers to numerous sources of information draws on the discoveries of modern scholarship and presents the first book length treatment of this exceedingly important branch of science Edward Harrison *American Journal of Physics* Van Helden writes well with a flair for clear explanation I warmly recommend this book Colin A Ronan *Journal of the British Astronomical Association* [Measuring the Universe](#) Kitty Ferguson, 2013-01-31 Suppose you and I still wondered whether all of the pinpoints of light in the night sky are the same distance from us Suppose none of our contemporaries could tell us whether the Sun orbits the Earth or vice versa or even how large the Earth is Suppose no one had guessed there are mathematical laws underlying the motions of the heavens How would how did anyone begin to discover these numbers and these relationships without leaving the Earth What made anyone even think it was possible to find out how far without going there In *Measuring the Universe* we join our ancestors and contemporary scientists as they tease this information out of a sky full of stars Some of the questions have turned out to be loaded and a great deal besides mathematics and astronomy has gone into answering them Politics religion philosophy and personal ambition all have played roles in this drama There are poignant personal stories of people like Copernicus Kepler Newton Herschel and Hubble Today scientists are attempting to determine the distance to objects near the borders of the observable universe far beyond anything that can be seen with the naked eye in the night sky and to measure time back to its origin The numbers are too enormous to comprehend Nevertheless generations of curious people have figured them out one resourceful step at a time Progress has owed as much to raw ingenuity as to technology and frontier inventiveness is still not out of date [Lenses and Waves](#) Fokko Jan Dijksterhuis, 2006-01-20 In 1690 Christiaan Huygens 1629 1695 published *Traité de la Lumière* containing his renowned wave theory of light It is considered a landmark in seventeenth century science for the way Huygens mathematized the corpuscular nature of light and his probabilistic conception of natural knowledge This book discusses the development of Huygens wave theory reconstructing the winding road that eventually led to *Traité de la Lumière* For the first time the full range of manuscript sources is taken into account In addition the development of Huygens thinking on the nature of light is put in the context of his optics as a whole which was dominated by his lifelong pursuit of theoretical and practical dioptrics In so doing this book offers the first account of the development of Huygens mathematical analysis of lenses and telescopes and its significance for the origin of the wave theory of light As Huygens applied his mathematical proficiency to practical issues pertaining to telescopes including trying to design a perfect telescope by means of mathematical theory his dioptrics is significant for our understanding of seventeenth century relations between theory and practice With this full account of Huygens optics this book sheds new light on the history of seventeenth century optics and

the rise of the new mathematical sciences as well as Huygens oeuvre as a whole Students of the history of optics of early mathematical physics and the Scientific Revolution will find this book enlightening *De Visione Stellarum* Dan Burton,2007 In this critical edition of Nicole Oresme s 14th century treatise on atmospheric refraction Oresme uses optics and infinitesimals to help solve this vexing problem of astronomy proposing that light travels along a curve through the atmosphere centuries before Hooke and Newton

How Modern Science Came Into the World H. F. Cohen,2010 Once upon a time The Scientific Revolution of the 17th century was an innovative concept that inspired a stimulating narrative of how modern science came into the world Half a century later what we now know as the master narrative serves rather as a strait jacket so often events and contexts just fail to fit in No attempt has been made so far to replace the master narrative H Floris Cohen now comes up with precisely such a replacement Key to his path breaking analysis cum narrative is a vision of the Scientific Revolution as made up of six distinct yet narrowly interconnected revolutionary transformations each of some twenty five to thirty years duration This vision enables him to explain how modern science could come about in Europe rather than in Greece China or the Islamic world It also enables him to explain how half way into the 17th century a vast crisis of legitimacy could arise and in the end be overcome *Isaac Newton's Scientific Method* William L. Harper,2011-12-08 This book examines Newton s argument for universal gravity and its application to cosmology

Celestial Shadows John Westfall,William Sheehan,2014-11-19 Much of what is known about the universe came from the study of celestial shadows This book looks in detail at the way eclipses and other celestial shadows have given us amazing insights into the nature of the objects in our solar system and how they are even helping us discover and analyze planets that orbit stars other than our Sun A variety of eclipses transits and occultations of the moons of Jupiter and Saturn Pluto and its satellite Charon asteroids and stars have helped astronomers to work out their dimensions structures and shapes even the existence of atmospheres and structures of exoplanets Long before Columbus set out to reach the Far East by sailing West the curved shadow of the Earth on the Moon during a lunar eclipse revealed that we inhabit a round world a globe More recently comparisons of the sunlit and Earthlit parts of the Moon have been used to determine changes in the Earth s brightness as a way of monitoring possible effects in cloud coverage which may be related to global warming Shadows were used by the Greek mathematician Eratosthenes to work out the first estimate of the circumference of the Earth by Galileo to measure the heights of the lunar mountains and by eighteenth century astronomers to determine the scale of the Solar System itself Some of the rarest and most wonderful shadows of all are those cast onto Earth by the lovely Evening Star Venus as it goes between the Earth and the Sun These majestic transits of Venus occur at most two in a century after the 2012 transit there is not a chance to observe this phenomenon until 2117 while the more common sweep of a total solar eclipse creates one of the most dramatic and awe inspiring events of nature Though it may have once been a source of consternation or dread solar eclipses now lead thousands of amateur astronomers and eclipse chasers to travel the globe in order to experience the dramatic view under

totality These phenomena are among the most spectacular available to observers and are given their full due in Westfall and Sheehan's comprehensive study

Reading the Mind of God A.E.L. Davis, J. V. Field, T. J. Mahoney, 2024-11-19 This volume provides a wide ranging introduction to Kepler's work with essays on his religion his cosmological theories his work in astronomy astrology optics and mathematics and his interactions with Tycho Brahe and Galileo Galilei Kepler is a major figure in the history of science His laws of planetary motion overthrew a tradition going back as far as the ancient Greeks of constructing the paths of planets by combinations of circles and the derivation of the laws was revolutionary in the way it relied upon detailed agreement with observations Moreover the laws explicitly relate the motion and path of each planet to the Sun Thus when the tables that Kepler based upon the laws proved to be highly reliable over many decades this played a crucial part in making heliocentrism acceptable And many years after Kepler's death the laws themselves played an important part in Newton's derivation of the inverse square law of gravitation in his Principia 1687 In this respect Kepler can look modern But his work is grounded in his religious belief that the Universe is the visible expression of the nature of the God who created it This book whose chapters are written by leading scholars is primarily addressed to undergraduate and graduate students of science and the history of science but will also appeal to the general reader with an interest in the history of science

The Transit of Venus Enterprise in Victorian Britain Jessica Ratcliff, 2016-09-12 In the nineteenth century the British Government spent money measuring the distance between the earth and the sun using observations of the transit of Venus This book presents a narrative of the two Victorian transit programmes It draws out their cultural significance and explores the nature of big science in late Victorian Britain

Intersections of Religion and Astronomy Chris Corbally, Darryl Dinell, Aaron Ricker, 2020-11-01 This volume examines the way in which cultural ideas about the heavens shape religious ideas and are shaped by them in return Our approaches to cosmology have a profound effect on the way in which we each deal with religious questions and participate in the imaginative work of public and private world building Employing an interdisciplinary team of international scholars each chapter shows how religion and cosmology interrelate and matter for real people Historical and contemporary case studies are included to demonstrate the lived reality of a variety of faith traditions and their interactions with the cosmos This breadth of scope allows readers to get a unique overview of how religion science and our view of space have and will continue to impact our worldviews Offering a comprehensive exploration of humanity and its relationship with cosmology this book will be an important reference for scholars of Religion and Science Religion and Culture Interreligious Dialogue and Theology as well as those interested in Science and Culture and Public Education

The Dawn of Modern Cosmology Nicolaus Copernicus, Galileo Galilei, Johannes Kepler, René Descartes, Isaac Newton, 2023-09-21 New to Penguin Classics the astonishing story of the Copernican Revolution told through the words of the ground breaking scientists who brought it about In the late fifteenth century it was believed that the earth stood motionless at the centre of a small ordered cosmos Just over two centuries later everything had changed

Not only was the sun the centre of creation but the entire practice of science had been revolutionised This is the story of that astonishing transformation told through the words of the astronomers and mathematicians at its heart Bringing together excerpts from the works and letters of Copernicus Galileo Kepler Descartes Newton and others for the first time *The Dawn of Modern Cosmology* is the definitive record of one of the great turning points in human history Edited with Translations Notes and an Introduction by Aviva Rothman

The Oxford Handbook of the Jesuits Ines G. Županov, 2019 Through its missionary pedagogical and scientific accomplishments the Society of Jesus known as the Jesuits became one of the first institutions with a truly global reach in practice and intention The Oxford Handbook of the Jesuits offers a critical assessment of the Order helping to chart new directions for research at a time when there is renewed interest in Jesuit studies In particular the Handbook examines their resilient dynamism and innovative spirit grounded in Catholic theology and Christian spirituality but also profoundly rooted in society and cultural institutions It also explores Jesuit contributions to education the arts politics and theology among others The volume is organized in seven major sections totaling forty articles on the Order's foundation and administration the theological underpinnings of its activities the Jesuit involvement with secular culture missiology the Order's contributions to the arts and sciences the suppression the Order endured in the 18th century and finally the restoration The volume also looks at the way the Jesuit Order is changing including becoming more non European and ethnically diverse with its members increasingly interested in engaging society in addition to traditional pastoral duties

Landmarks in Western Science Peter Whitfield, 1999 Examining important advances by such luminaries as Copernicus Vesalius Newton Darwin and Freud historian Peter Whitfield discusses their context and impact and charts their progress from heresy to orthodoxy 110 illustrations 20 in color

Encyclopedia of the Scientific Revolution Wilbur Applebaum, 2003-12-16 With unprecedented current coverage of the profound changes in the nature and practice of science in sixteenth and seventeenth century Europe this comprehensive reference work addresses the individuals ideas and institutions that defined culture in the age when the modern perception of nature of the universe and of our place in it is said to have emerged Covering the historiography of the period discussions of the Scientific Revolution's impact on its contemporaneous disciplines and in depth analyses of the importance of historical context to major developments in the sciences The Encyclopedia of the Scientific Revolution is an indispensable resource for students and researchers in the history and philosophy of science

The Origins of the Idea of Scientific Progress Daniel Špelda, 2024-06-21 This volume offers a new interpretation of the genesis of the idea of scientific progress in early modern science and philosophy The interpretation argues that the idea of scientific progress was not a historical category but an epistemological one The main thesis of the book posits that the idea of scientific progress was a methodological means of dealing with the contingency of nature To illustrate the novelty of the idea the individual chapters compare several features of Renaissance natural philosophy with a new regime of knowledge that included time as an inevitable factor of empirical research The temporal

regime of knowledge is illustrated by the work of Bernard de Fontenelle and his colleagues at the Acad mie des sciences in Paris at the end of the 17th century The new interpretation remedies a gap in recent scholarship where the idea of scientific progress has been overlooked even though the early modern natural philosophers themselves used it to describe the nature of their research The book places both well known texts and less studied documents in a new light thus contributing to the lively and rich debate on the origins and nature of early modern science and philosophy It is of interest to scholars studying the history of early modern philosophy and science Discovery and Classification in Astronomy Steven J. Dick, 2013-09-09 This book shows that astronomical discovery is a complex and ongoing process comprising various stages of research interpretation and understanding *Kepler's New Star (1604)* , 2020-12-15 The supernova of 1604 marks a major turning point in the cosmological crisis of the sixteenth and seventeenth centuries Capturing the eyes and imagination of Europe it ignited an explosion of ideas that forever changed the face of science Variouslly interpreted as a comet or star the new luminary brought together a broad network of scholars who debated the nature of the novelty and its origins in the universe At the heart of the interdisciplinary discourse was Johannes Kepler whose book *On the New Star 1606* assessed the many disputes of the day Beginning with several studies about Kepler s book the authors of the present volume explore the place of Kepler and the new star in early modern culture and religion and how contemporary debate shaped the course of science down to the present day Contributors are 1 Dario Tessicini 2 Christopher M Graney 3 Javier Luna 4 Patrick J Boner 5 Jonathan Regier 6 Aviva Rothman 7 Miguel Granada 8 Pietro Daniel Omodeo 9 Matteo Cosci and 10 William P Blair **The Beginnings of Western Science** David C. Lindberg, 2010-02-15 The most comprehensive account of ancient and medieval science a standard work for understanding the history of science *The Beginnings of Western Science* is a landmark the best book to ever to present a unified account of both ancient and medieval science in a single volume Chronicling the development of scientific ideas practices and institutions from pre Socratic Greek philosophy to late Medieval scholasticism David C Lindberg surveys all the most important themes in the history of science including developments in cosmology astronomy mechanics optics alchemy natural history and medicine In addition he offers an illuminating account of the transmission of Greek science to medieval Islam and subsequently to medieval Europe For decades this book has shaped the way students and scholars understand these critically formative periods of scientific development and it continues to be essential to an understanding of the field this updated second edition includes revisions on nearly every page as well as several sections that have been completely rewritten For example the section on Islamic science was thoroughly retooled to reveal the magnitude and sophistication of medieval Muslim scientific achievement And the book now reflects a sharper awareness of the importance of Mesopotamian science for the development of Greek astronomy In all the second edition of *The Beginnings of Western Science* captures the current state of our understanding of more than two millennia of science and promises to continue to inspire both students and general readers Novelties in the Heavens Jean Dietz

Moss,1993-03-15 In this fascinating work Jean Dietz Moss shows how the scientific revolution begun by Copernicus brought about another revolution as well one in which rhetoric previously used simply to explain scientific thought became a tool for persuading a skeptical public of the superiority of the Copernican system Moss describes the nature of dialectical and rhetorical discourse in the period of the Copernican debate to shed new light on the argumentative strategies used by the participants Against the background of Ptolemy's Almagest she analyzes the gradual increase of rhetoric beginning with Copernicus's De Revolutionibus and Galileo's Siderius nuncius through Galileo's debates with the Jesuits Scheiner and Grassi to the most persuasive work of all Galileo's Dialogue The arguments of the Dominicans Bruno and Campanella the testimony of Johannes Kepler and the pleas of Scriptural exegetes and the speculations of John Wilkins furnish a counterpoint to the writings of Galileo the centerpiece of this study The author places the controversy within its historical frame creating a coherent narrative movement She illuminates the reactions of key ecclesiastical and academic figures figures and the general public to the issues Blending history and rhetorical analysis this first study to look at rhetoric as defined by sixteenth and seventeenth century participants is an original contribution to our understanding of the use of persuasion as an instrument of scientific debate

The Turtle and the Stars Arthur R. Upgren, Arthur Upgren, 2003-05 An approachable potpourri Upgren's essays will delight and inform astronomy buffs whether students or recreational readers Booklist Why is a clear sky brighter near the horizon while a cloudy one is at its lightest overhead What color is the atmosphere of Mars and might it someday appear as blue as ours How is it that the Milky Way casts shadows Why does the Taj Mahal glimmer when you gaze up at it In The Turtle and the Stars astronomer Arthur Upgren guides us through the physical phenomena that produce our sky and galaxy in all their variety and moods He invites us to contemplate the natural beauty of the universe a leatherback turtle depositing her eggs under a sky lit only by Venus a total solar eclipse in Venezuela the play of the spectrum on the cathedral at Chartres Sprinkled with references to history literature film and music The Turtle and the Stars is a treasure trove of information for armchair astronomers and naturalists alike

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