

A. J. Turner

MATHEMATICAL INSTRUMENTS

in Antiquity and the Middle Ages



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Mathematical Instruments In Antiquity And The Middle Ages An Introduction

David A. King



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Mathematical Instruments in Antiquity and the Middle Ages Anthony John Turner, 1994 Quelques chapitres de cet ouvrage traitent des astrolabes

Reader's Guide to the History of Science Arne Hessenbruch, 2013-12-16 The Reader's Guide to the History of Science looks at the literature of science in some 550 entries on individuals Einstein institutions and disciplines Mathematics general themes Romantic Science and central concepts Paradigm and Fact The history of science is construed widely to include the history of medicine and technology as is reflected in the range of disciplines from which the international team of 200 contributors are drawn

The Cambridge Companion to Ancient Greek and Roman Science Liba Taub, 2020-01-30 Provides a broad framework for engaging with ideas relevant to ancient Greek and Roman science medicine and technology

A History of Folding in Mathematics Michael Friedman, 2018-05-25 While it is well known that the Delian problems are impossible to solve with a straightedge and compass for example it is impossible to construct a segment whose length is cube root of 2 with these instruments the discovery of the Italian mathematician Margherita Beloch Piazzolla in 1934 that one can in fact construct a segment of length cube root of 2 with a single paper fold was completely ignored till the end of the 1980s This comes as no surprise since with few exceptions paper folding was seldom considered as a mathematical practice let alone as a mathematical procedure of inference or proof that could prompt novel mathematical discoveries A few questions immediately arise Why did paper folding become a non instrument What caused the marginalisation of this technique And how was the mathematical knowledge which was nevertheless transmitted and prompted by paper folding later treated and conceptualised Aiming to answer these questions this volume provides for the first time an extensive historical study on the history of folding in mathematics spanning from the 16th century to the 20th century and offers a general study on the ways mathematical knowledge is marginalised disappears is ignored or becomes obsolete In doing so it makes a valuable contribution to the field of history and philosophy of science particularly the history and philosophy of mathematics and is highly recommended for anyone interested in these topics

Science and Mathematics in Ancient Greek Culture Christopher Tuplin, Tracey Elizabeth Rihl, 2002 Ancient Greece was the birthplace of science which developed in the Hellenized culture of ancient Rome This book written by seventeen international experts examines the role and achievement of science and mathematics in Greek antiquity through discussion of the linguistic literary political religious sociological and technological factors which influenced scientific thought and practice

Pappus of Alexandria and the Mathematics of Late Antiquity Serafina Cuomo, 2007-06-21 This book is at once an analytical study of one of the most important mathematical texts of antiquity the Mathematical Collection of the fourth century AD mathematician Pappus of Alexandria and also an examination of the work's wider cultural setting An important first chapter looks at the mathematicians of the period and how mathematics was perceived by people at large The central chapters of the book analyse sections of the Collection identifying features typical of Pappus's mathematical practice The final chapter draws together the various

threads and presents a fuller description of Pappus's mathematical agenda. This is one of few books to deal extensively with the mathematics of Late Antiquity. It sees Pappus's text as part of a wider context and relates it to other contemporary cultural practices and opens avenues to research into the public understanding of mathematics and mathematical disciplines in antiquity. Roman Portable Sundials Richard J. A. Talbert, 2017. Talbert investigates miniature sundials which can be adjusted for the owner's whereabouts. They incorporate a list of locations and latitudes for ready reference data that offers insight into Romans' worldviews. To some perhaps these sundials were primarily symbols of scientific awareness as well as imperial mastery of time and space. **The Oxford Companion to the History of Modern Science** John L.

Heilbron, 2003-02-14. Containing 609 encyclopedic articles written by more than 200 prominent scholars, *The Oxford Companion to the History of Modern Science* presents an unparalleled history of the field invaluable to anyone with an interest in the technology, ideas, discoveries, and learned institutions that have shaped our world over the past five centuries. Focusing on the period from the Renaissance to the early twenty-first century, the articles cover all disciplines: Biology, Alchemy, Behaviorism, historical periods, the Scientific Revolution, World War II, the Cold War, concepts, Hypothesis, Space and Time, Ether, and methodologies and philosophies. Observation and Experiment, Darwinism. Coverage is international, tracing the spread of science from its traditional centers and explaining how the prevailing knowledge of non-Western societies has modified or contributed to the dominant global science as it is currently understood. Revealing the interplay between science and the wider culture, the Companion includes entries on topics such as minority groups, art, religion, and science's practical applications. One hundred biographies of the most iconic historic figures chosen for their contributions to science and the interest of their lives are also included. Above all, *The Oxford Companion to the History of Modern Science* is a companion to world history, modern in coverage, generous in breadth, and cosmopolitan in scope. The volume's utility is enhanced by a thematic outline of the entire contents, a thorough system of cross-referencing, and a detailed index that enables the reader to follow a specific line of inquiry along various threads from multiple starting points. Each essay has numerous suggestions for further reading, all of which favor literature that is accessible to the general reader, and a bibliographical essay provides a general overview of the scholarship in the field. Lastly, as a contribution to the visual appeal of the Companion, over 100 black and white illustrations and an eight-page color section capture the eye and spark the imagination. In Synchrony with the Heavens, Volume 2: Instruments of Mass Calculation David King, 2005-06-01. This is the first investigation of one of the main interests of astronomy in Islamic civilization: namely, timekeeping by the sun and stars and the regulation of the astronomically defined times of Muslim prayer. The study is based on over 500 medieval astronomical manuscripts first identified by the author, now preserved in libraries all over the world and originally from the entire Islamic world, from the Maghrib to Central Asia and the Yemen. The materials presented provide new insights into the early development of the prayer ritual in Islam. They also call into question the popular notion that religion could not inspire serious scientific activity.

Only one of the hundreds of astronomical tables discussed here was known in medieval Europe which is one reason why the entire corpus has remained unknown until the present A second volume also to be published by Brill deals with astronomical instruments for timekeeping and other computing devices **Scientific Instruments and Museums** M. Dorikens,2002

The present volume is organised around two symposia of the XXth International Congress of History of Science respectively devoted to the history of sundials and to the national inventories of scientific instruments Separate studies on outstanding instruments instrument makers as well as unknown museums and collections in Spain Italy Estonia and Latin America were also included A General History of Horology Anthony Turner,James Nye,Jonathan Betts,2022-07-28 A General History of Horology describes instruments used for the finding and measurement of time from Antiquity to the 21st century In geographical scope it ranges from East Asia to the Americas The instruments described are set in their technical and social contexts and there is also discussion of the literature the historiography and the collecting of the subject The book features the use of case studies to represent larger topics that cannot be completely covered in a single book The international body of authors have endeavoured to offer a fully world wide survey accessible to students historians collectors and the general reader based on a firm understanding of the technical basis of the subject At the same time as the work offers a synthesis of current knowledge of the subject it also incorporates the results of some fundamental new and original research **The British National Bibliography** Arthur James Wells,1996 *Sundials* Hester Highton,2001 This is an examination of the portable sundials used as timekeepers for three millennia The focus is on the sundials themselves but much reference is made to social political and economic history *Learning, Language, and Invention* Francis Maddison,Willem Dirk Hackmann,Anthony John Turner,1994 This is a collection of 19 papers by well known academics in their field on numerous scientific instruments from all parts of the world and through many historical periods They are presented in honour of Francis Maddison Curator of the Museum of History of Science Oxford **Bibliographie D'histoire de L'art** ,1996 A Century of British Medieval Studies Alan Deyermond,2007-11-29 This is an authoritative guide to the full range of medieval scholarship undertaken in twentieth century Britain history archaeology language culture Some of the twenty nine essays focus on changes in research method or on the achievements of individual scholars others are personal accounts of a lifetime s work **The Quest for Longitude** William J. H. Andrewes,Harvard University. Collection of Historical Scientific Instruments,1996 The Quest for Longitude is a book for students and for teachers for collectors and for scholars and for the thousands of people who having enjoyed Sobel s Longitude desire a well illustrated reference that describes in detail the many fascinating devices and the intriguing characters who by solving the ancient problem of finding longitude at sea changed the world forever 250 illustrations 120 in color **Instruments of Science** Robert Bud,Deborah Jean Warner,1998 With over 300 entries from the ancient abacus to X ray diffraction as represented by a ca 1900 photo of an X ray machine as well as the latest research into filmless x ray systems this tour of the history of scientific instruments in

multiple disciplines provides context and a bibliography for each entry Newer conceptions of instrument include organisms widely used in research e g the mouse drosophila and E coli Bandw photographs and diagrams showcase more traditional instruments from The Science Museum London and the Smithsonian s National Museum of American History Annotation copyrighted by Book News Inc Portland OR *Astrolabes and Angels, Epigrams and Enigmas* David A. King, 2007 On the astrolabe presented by the young German astronomer Regiomontanus to his ageing patron Cardinal Bessarion there is a Latin epigram and the image of an angel The former is a geometrically arranged acrostic with eight hidden vertical axes Of these the two principal ones correspond precisely to the two principal axes of the enigmatic painting The Flagellation of Christ by Piero della Francesca In this are five figures in a flagellation scene on the left and three modern figures on the right including a bearded Greek and an angelic young man in cardinal red Over 40 interpretations of the three moderns have been proposed over the past 150 years In this book David King shows how clusters of letters across the epigram reveal double or multiple identities for each and every one of the eight persons in the painting The only new person in the drama is Regiomontanus whose epigram provided the inspiration for the painting His image embodies three talented young men close to Bessarion who had recently died and also symbolizes the cardinal s hope for the future BIOLOGICAL SCIENCE FUNDAMENTALS AND SYSTEMATICS - Volume I Alessandro Minelli, Giancarlo Contrafatto , 2009-11-10 Biological Science Fundamentals and Systematics is a component of Encyclopedia of Biological Physiological and Health Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Biological Science Fundamentals and Systematics provides the essential aspects and a myriad of issues of great relevance to our world such as History and Scope of Biological Sciences The Origin and Evolution of Early Life Evolution Classification and Diversity of Life Forms Systematics of Microbial Kingdom s and Fungi Systematic Botany Systematic Zoology Invertebrates Systematic Zoology Vertebrates which are then expanded into multiple subtopics each as a chapter These four volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

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