

Roshdi Rashed

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VARIORUM

Optique Et Mathematiques Recherches Sur Lhistoire De La Pensee Scientifique En Arabe

Rushdī Rāshid



Optique Et Mathematiques Recherches Sur Lhistoire De La Pensee Scientifique En Arabe:

Optique et mathématiques Rushdī Rāshid, 1992 The overall theme of this volume is the appropriation and integration of ancient sciences whether Greek or Indian into the scientific thought of the classical Islamic world and the impact this had on the development of Arabic scientific thought itself The first articles are concerned with the history of optics in particular theories of lenses and anaclastics and use newly discovered texts to demonstrate the early achievements of the Arabs in these fields Their use of mathematics in the development of experimental optics is also emphasised In the following articles Professor Rashed turns to the history of mathematics itself with studies on the Arabic neo Archimedean tradition and on research into number theory and Diophantine analysis and to problems in the philosophy of mathematics as dealt with by Maimonides Ibn al Haytham and Avicenna Le th me principal de cet ouvrage est l appropriation et l int gration des sciences anciennes grecques ou indiennes dans la pens e scientifique du monde islamique classique ainsi que leur impact sur le progr s de la pens e scientifique arabe en elle m me Les premi res tudes traitent de l histoire de l optique et en particulier des th ories des lentilles et des anaclastiques tout en d montrant l appui de textes r cement d couverts la r ussite pr coce des Arabes dans ce domaine Leur utilisation des math matiques dans le d veloppement de l optique exp rimentale y a bien s r son importance Dans les articles suivants le professeur Rashed se tourne vers l histoire des math matiques avec des tudes de la tradition arabe n o archim dienne et des recherches sur la th orie des nombres et sur l analyse diophantine et vers les probl mes de la philosophie des math matiques telle que l avaient trait e Ma monide Ibn al Haytham et Avicenne *Ibn al-Haytham's Geometrical Methods and the Philosophy of Mathematics* Roshdi Rashed, 2017-07-20 This fifth volume of A History of Arabic Sciences and Mathematics is complemented by four preceding volumes which focused on the main chapters of classical mathematics infinitesimal geometry theory of conics and its applications spherical geometry mathematical astronomy etc This book includes seven main works of Ibn al Haytham Alhazen and of two of his predecessors Th bit ibn Qurra and al Sijz The circle its transformations and its properties Analysis and synthesis the founding of analytical art A new mathematical discipline the Knowns The geometrisation of place Analysis and synthesis examples of the geometry of triangles Axiomatic method and invention Th bit ibn Qurra The idea of an Ars Inveniendi al Sijz Including extensive commentary from one of the world s foremost authorities on the subject this fundamental text is essential reading for historians and mathematicians at the most advanced levels of research **Ibn al-Haytham's Theory of Conics, Geometrical Constructions and Practical Geometry** Roshdi Rashed, 2013-06-26 Theory of Conics Geometrical Constructions and Practical Geometry A History of Arabic Sciences and Mathematics Volume 3 provides a unique primary source on the history and philosophy of mathematics and science from the mediaeval Arab world The present text is complemented by two preceding volumes of A History of Arabic Sciences and Mathematics which focused on founding figures and commentators in the ninth and tenth centuries and the historical and epistemological development of

infinitesimal mathematics as it became clearly articulated in the oeuvre of Ibn al Haytham This volume examines the increasing tendency after the ninth century to explain mathematical problems inherited from Greek times using the theory of conics Roshdi Rashed argues that Ibn al Haytham completes the transformation of this area of activity into a part of geometry concerned with geometrical constructions dealing not only with the metrical properties of conic sections but with ways of drawing them and properties of their position and shape Including extensive commentary from one of world s foremost authorities on the subject this book contributes a more informed and balanced understanding of the internal currents of the history of mathematics and the exact sciences in Islam and of its adaptive interpretation and assimilation in the European context This fundamental text will appeal to historians of ideas epistemologists and mathematicians at the most advanced levels of research

Light-Based Science Azzedine Boudrioua,Roshdi Rashed,Vasudevan Lakshminarayanan,2017-08-15 This book discusses light based science emphasizing its pervasive influence in science technology policy and education A wide range of contributors offers a comprehensive study of the tremendous and indeed foundational contributions of Ibn al Haytham a scholar from the medieval period The analysis then moves into the future development of light based technology Written as a multi disciplinary reference book by leading scholars in the history of science and or photonics it covers Ibn al Haytham s optics LED lighting for sustainable development global and atomic scale time with new light sources advanced technology and vision science Cutting edge optical technologies and their global impact is addressed in detail and the later chapters also explore challenges with renewable energy the global impact of photonics and optical and photonic education technology Practical examples and illustrations are provided throughout the text

Encyclopedia of the History of Arabic Science Roshdi Rashed,2019-08-08 The Arabic contribution is fundamental to the history of science mathematics and technology but until now no single publication has offered an up to date synthesis of knowledge in this area In three fully illustrated volumes the Encyclopedia of the History of Arabic Science documents the history and philosophy of Arabic science from the earliest times to the present day The set as a whole covers seven centuries Thirty chapters written by an international team of specialists from Europe America the Middle East and Russia cover such areas as astronomy mathematics music engineering nautical science and scientific institutions

The Philosophers and Mathematics Hassan Tahiri,2018-08-14 This book explores the unique relationship between two different approaches to understand the nature of knowledge reality and existence It collects essays that examine the distinctive historical relationship between mathematics and philosophy Readers learn what key philosophers throughout the ages thought about mathematics This includes both thinkers who recognized the relevance of mathematics to their own work as well as those who chose to completely ignore its many achievements The essays offer insight into the role that mathematics played in the formation of each included philosopher s doctrine as well as the impact its remarkable expansion had on the philosophical systems each erected Conversely the authors also highlight the ways that philosophy contributed to the growth and

transformation of mathematics Throughout significant historical examples help to illustrate these points in a vivid way Mathematics has often been a favored interlocutor of philosophers and a major source of inspiration This book is the outcome of an international conference held in honor of Roshdi Rashed a renowned historian of mathematics It provides researchers students and interested readers with remarkable insights into the history of an important relationship throughout the ages

Ibn al-Haytham, New Astronomy and Spherical Geometry Roshdi Rashed, 2019-10-25 This volume provides a unique primary source on the history and philosophy of mathematics and science from the mediaeval Arab world The fourth volume of *A History of Arabic Sciences and Mathematics* is complemented by three preceding volumes which focused on infinitesimal determinations and other chapters of classical mathematics This book includes five main works of the polymath Ibn al Haytham Alhazen on astronomy spherical geometry and trigonometry plane trigonometry and studies of astronomical instruments on hour lines horizontal sundials and compasses for great circles In particular volume four examines the increasing tendency to mathematize the inherited astronomy from Greek sources namely Ptolemy's *Almagest* the development of celestial kinematics new research in spherical geometry and trigonometry required by the new kinematical theory the study on astronomical instruments and its impact on mathematical research These new historical materials and their mathematical and historical commentaries contribute to rewriting the history of mathematical astronomy and mathematics from the 11th century on Including extensive commentary from one of the world's foremost authorities on the subject this fundamental text is essential reading for historians and mathematicians at the most advanced levels of research

The Cambridge History of Science: Volume 2, Medieval Science David C. Lindberg, Michael H. Shank, 2013-10-07 This volume in the highly respected Cambridge History of Science series is devoted to the history of science in the Middle Ages from the North Atlantic to the Indus Valley Medieval science was once universally dismissed as non-existent and sometimes it still is This volume reveals the diversity of goals contexts and accomplishments in the study of nature during the Middle Ages Organized by topic and culture its essays by distinguished scholars offer the most comprehensive and up-to-date history of medieval science currently available Intended to provide a balanced and inclusive treatment of the medieval world contributors consider scientific learning and advancement in the cultures associated with the Arabic Greek Latin and Hebrew languages Scientists historians and other curious readers will all gain a new appreciation for the study of nature during an era that is often misunderstood

Livre V. Commentaire historique et mathématique, édition et traduction du texte arabe Roshdi Rashed, 2009-01-08 With the fifth book of the *Konika* ancient mathematics reached a climax In it Apollonius presents the first known theory of the maxima and minima lines which was taken up again by mathematicians in the early 10th century and above all in the 17th century As is the case for books 6 and 7 the original Greek text of this book is lost and it is only known from an Arabic translation made in Baghdad in the 9th century This volume presents the reader with a truly critical edition of the fifth book of Apollonius *Konika* an exact translation that follows the original wording closely as well as a

broad and detailed historical and mathematical commentary as befits the edition of such an important text

Founding Figures and Commentators in Arabic Mathematics Roshdi Rashed, 2013-03-07 In this unique insight into the history and philosophy of mathematics and science in the mediaeval Arab world the eminent scholar Roshdi Rashed illuminates the various historical textual and epistemic threads that underpinned the history of Arabic mathematical and scientific knowledge up to the seventeenth century The first of five wide ranging and comprehensive volumes this book provides a detailed exploration of Arabic mathematics and sciences in the ninth and tenth centuries Extensive and detailed analyses and annotations support a number of key Arabic texts which are translated here into English for the first time In this volume Rashed focuses on the traditions of celebrated polymaths from the ninth and tenth centuries School of Baghdad such as the Ban M s Th bit ibn Qurra Ibn h m ibn Sin n Ab Ja far al Kh zin Ab Sahl Wayjan ibn Rust m al Q h and eleventh century Andalusian mathematicians like Ab al Q sim ibn al Samh and al Mu taman ibn H d The Archimedean Apollonian traditions of these polymaths are thematically explored to illustrate the historical and epistemological development of infinitesimal mathematics as it became more clearly articulated in the eleventh century influential legacy of al Hasan ibn al Haytham Alhazen Contributing to a more informed and balanced understanding of the internal currents of the history of mathematics and the exact sciences in Islam and of its adaptive interpretation and assimilation in the European context this fundamental text will appeal to historians of ideas epistemologists mathematicians at the most advanced levels of research *Livre I. Commentaire historique et mathématique, édition et traduction du texte arabe. 1.2: Livre I: Édition et traduction du texte grec* Roshdi Rashed, Micheline Decorps-Foulquier, Michel Federspiel, 2008-12-18 The treatise on conic sections by the Hellenistic mathematician Apollonius from Perga is regarded as a supreme achievement of Greek mathematics and maintained its authority right up to the 18th century This new edition is the first to consider all Greek and Arabic sources with the Arabic texts being presented in the first ever critical edition Both versions of the text are accompanied by a French translation an extensive mathematical commentary numerous philological notes and a complete glossary The four volumes of the edition are intended to be completed in 2009

The Routledge Companion to Art and Disability Keri Watson, Timothy W. Hiles, 2022-03-30 The Routledge Companion to Art and Disability explores disability in visual culture to uncover the ways in which bodily and cognitive differences are articulated physically and theoretically and to demonstrate the ways in which disability is culturally constructed This companion is organized thematically and includes artists from across historical periods and cultures in order to demonstrate the ways in which disability is historically and culturally contingent The book engages with questions such as How are people with disabilities represented in art How are notions of disability articulated in relation to ideas of normality hybridity and anomaly How do artists use visual culture to affirm or subvert notions of the normative body Contributors consider the changing role of disability in visual culture the place of representations in society and the ways in which disability studies engages with and critiques intersectional notions of

gender race ethnicity class and sexuality This book will be particularly useful for scholars in art history disability studies visual culture and museum studies *Astronomy and Astrology in al-Andalus and the Maghrib* Julio Samsó, 2023-05-31 This new volume of papers by Julio Sams deals with the development of astronomy and astrology in al Andalus and the Maghrib between the 10th and the 19th centuries Opening with a survey of the social history of the exact sciences in al Andalus the book then looks at astronomical tables the first stages of the introduction of al Khwarizmi s and al Battani s tables through the school of Maslama al Majriti the development of Ibn al Zarqalluh Azarquiel s theories in Maghribi zijes Ibn al Banna and Ibn Azzuz and the abandonment of this tradition towards the end of the 14th century From this period onwards new Eastern zijes Muhyi al Din al Maghribi Ibn al Shatir Ulugh Beg are introduced in the Maghrib and towards the beginning of the 17th century a translation of Abraham Zacut and Jos Vizinho s Almanach Perpetuum end of the 15th century becomes well known in the whole Islamic world from Morocco to the Yemen As well as zijes themselves the author also deals with theoretical astronomy the use of an elliptical deferent for Mercury in Ibn al Zarqalluh s equatorium and the criticisms of Ibn al Haytham and Jabir b Aflah on Ptolemy s determination of the parameters of the same planet and with the use of zijes for the calculation of horoscopes and an experimental astrological method for the correction of mean motion planetary tables Ibn Azzuz **New Perspectives on the History of Islamic Science** Muzaffar Iqbal, 2017-05-15 Recent studies in the history of Islamic science based on the discovery and study of new primary texts and instruments have substantially revised the views of nineteenth century historians of science This volume presents some of these ground breaking studies as well as articles which shed new light on the ongoing academic debate surrounding the question of the decline of Islamic scientific tradition **Maimonides and the Sciences** Robert S. Cohen, H. Levine, 2013-03-09 In this book 11 leading scholars contribute to the understanding of the scientific and philosophical works of Moses Maimonides 1135 1204 the most luminous Jewish intellectual since Talmudic times Deeply learned in mathematics astronomy astrology which he strongly rejected logic philosophy psychology linguistics and jurisprudence and himself a practising physician Maimonides flourished within the high Arabic culture of the 12th century where he had momentous influence upon subsequent Jewish beliefs and behavior upon ethical demands and upon ritual traditions For him mastery of the sciences was indispensable in the process of religious fulfilment *Etudes d'astronomie byzantine* Anne Tihon, 2024-12-11 Byzantine science has been a largely neglected subject Byzantinists whether dealing with the history or the literature have most often been deterred by the technicalities historians of Greek science have been more attracted to earlier periods Yet even if science in the Byzantine world may not have attained the levels of achievement of the Alexandrian period or of the Islamic world it is clear that it was the focus of serious scholarship and this deserves equally serious investigation Anne Tihon has been in the forefront of those bringing to light the wealth of unpublished texts Her final study here presents an overview of scientific teaching in Byzantium while other articles deal specifically with astronomy from the 9th to the 15th century They look in particular at the

relations between Byzantine and Islamic astronomy and at calculations of the planets and eclipses *Ibn al-Haytham and Analytical Mathematics* Roshdi Rashed, 2013-05-02 This volume provides a unique primary source on the history and philosophy of mathematics and the exact sciences in the mediaeval Arab world The second of five comprehensive volumes this book offers a detailed exploration of Arabic mathematics in the eleventh century as embodied in the legacy of the celebrated polymath al Hasan ibn al Haytham Extensive analyses and annotations from the eminent scholar Roshdi Rashed support a number of key Arabic texts from Ibn al Haytham s treatises in infinitesimal mathematics translated here into English for the first time Rashed shows how Ibn al Haytham s works demonstrate a remarkable mathematical competence in mathematical subjects like the quadrature of the circle and of lunes the calculation of the volumes of paraboloids the problem of isoperimetric plane figures and solid figures with equal surface areas along with the extraction of square and cubic roots The present text is complemented by the first volume of *A History of Arabic Sciences and Mathematics* which focused on founding figures and commentators in the ninth and tenth centuries Archimedean Apollonian mathematical School of Baghdad This constellation of works illustrates the historical and epistemological development of infinitesimal mathematics as it became clearly articulated in the oeuvre of Ibn al Haytham Contributing to a more informed and balanced understanding of the internal currents of the history of mathematics and the exact sciences in Islam and of its adaptive interpretation and assimilation in the European context this fundamental text will appeal to historians of ideas epistemologists and mathematicians at the most advanced levels of research *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 **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

Islamic Astronomy and Geography David A. King, 2022-02-13 This volume of 12 studies mainly published during the past 15 years begins with an overview of the Islamic astronomy covering not only sophisticated mathematical astronomy and instrumentation but also simple folk astronomy and the ways in which astronomy was used in the service of religion It continues with discussions of the importance of Islamic instruments and scientific manuscript illustrations Three studies deal with the regional schools that developed in Islamic astronomy in this case Egypt and the Maghrib Another focuses on a curious astrological table for calculating the length of life of any individual The notion of the world centred on the sacred Kaaba in Mecca inspired both astronomers and proponents of folk astronomy to propose methods for finding the qibla or sacred direction towards the Kaaba their activities are surveyed here The interaction between the mathematical and folk traditions in astronomy is then illustrated by an 11th century text on the qibla in Transoxania The last three studies deal with an account of the geodetic measurements sponsored by the Caliph al Ma'mun in the 9th century a world map in the tradition of the 11th century polymath al-Biruni corrupted by careless copying and a table of geographical coordinates from 15th century Egypt

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