Classical Mathematics from al-Khwārizmī to Descartes

Roshdi Rashed

Translated by Michael H. Shank

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Classical Mathematics from Al-Khwarizmi to Descartes Roshdi Rashed,2014-08-21 This book follows the development of classical mathematics and the relation between work done in the Arab and Islamic worlds and that undertaken by the likes of Descartes and Fermat Early modern mathematics is a term widely used to refer to the mathematics which developed in the West during the sixteenth and seventeenth century For many historians and philosophers this is the watershed which marks a radical departure from classical mathematics to more modern mathematics heralding the arrival of algebra geometrical algebra and the mathematics of the continuous In this book Roshdi Rashed demonstrates that early modern mathematics is actually far more composite than previously assumed with each branch having different traceable origins which span the millennium Going back to the beginning of these parts the aim of this book is to identify the concepts and practices of key figures in their development thereby presenting a fuller reality of these mathematics This book will be of interest to students and scholars specialising in Islamic science and mathematics as well as to those with an interest in the more general history of science and mathematics and the transmission of ideas and culture

Classical Mathematics from Al-Khwarizmi to Descartes Rushdī Rāshid,2014 This book follows the development of classical mathematics and the relation between work done in the Arab and Islamic worlds and that undertaken by the likes of Descartes and Fermat Early modern mathematics is a term widely used to refer to the mathematics which developed in the West during the sixteenth and seventeenth century For many historians and philosophers this is the watershed which marks a radical departure from classical mathematics to more modern mathematics heralding the arrival of algebra geometrical algebra and the mathematics of the continuous In this book Roshdi Rashed demonstrates that early modern mathematics is actually far more composite than previously assumed with each branch having different traceable origins which span the millennium Going back to the beginning of these parts the aim of this book is to identify the concepts and practices of key figures in their development thereby presenting a fuller reality of these mathematics This book will be of interest to students and scholars specialising in Islamic science and mathematics as well as to those with an interest in the more general history of science and mathematics and the transmission of ideas and culture *Mathematics and Physics in Classical Islam* ,2022-05-20 This book highlights the emergence of a new mathematical rationality and the beginning of the mathematisation of physics in Classical Islam Exchanges between mathematics physics linguistics arts and music were a factor of creativity and progress in the mathematical the physical and the social sciences Goods and ideas travelled on a world scale mainly through the trade routes connecting East and Southern Asia with the Near East allowing the transmission of Greek Arabic medicine to Yuan Muslim China The development of science first centred in the Near East would gradually move to the Western side of the Mediterranean as a result of Europe s appropriation of the Arab and Hellenistic heritage Contributors are Paul Buell Anas Ghrab Hossein Masoumi Hamedani Zeinab Karimian Giovanna Lelli Marouane ben Miled Patricia Radelet de

Grave and Roshdi Rashed   Al-Khwarizmi Bridget Lim,Corona Brezina,2016-07-15 One of the elite scholars in Baghdad s prestigious House of Wisdom al Khwarizmi is best remembered for his famous work Al Jabr wa al Muqabala the text that defined the branch of mathematics known as algebra He was also an accomplished astronomer and geographer This fascinating biography describes in vivid detail the Islamic world s Golden Age a period during the Middle Ages when learning and scientific advancement were revered and honored Readers will learn what is known of al Khwarizmi s life as well as the pertinent history of both the Arab world and the fields of science in which al Khwarzimi excelled   *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

The Poetics of Ancient and Classical Arabic Literature Esad Durakovic,2015-04-24 Through analysing ancient and classical Arabic literature including the Qur an from within the Arabic literary tradition this book provides an original interpretation of poetics and of other important aspects of Arab culture Ancient Arabic literature is a realm of poetry prose literary forms emerged rather late and even then remained in the shadow of poetic creative efforts Traditionally this literature has been viewed through a philologist s lens and has often been represented as materialistic in the sense that its poetry lacked imagination As a result Arabic poetry was often evaluated negatively in relation to other poetic traditions The Poetics of Ancient and Classical Arabic Literature argues that old Arabic literature is remarkably coherent in poetical terms and has its own individuality and that claims of its materialism arise from a failure to grasp the poetic principles of the Arabic tradition Analysing the Qur an which is known for confronting the poetry of the time this book reveals that post Qur anic literature came to be defined against it Thus the constitution and interpretation of Arabic literature imposed itself as a particular exegesis of the sacred Text Disputing traditional interpretations by arguing that Arabic literature can only be assessed from within and not through comparison with other literary traditions this book is of interest to students and scholars of Islamic Studies Arabic Studies and Literary Studies   *Karl Marx and Mathematics* Pradip Baksi,2020-11-01 This

collection of various texts on Karl Marx and Mathematics is the revised and extended second edition of the Special Supplement to Karl Marx Mathematical Manuscripts 1994 Calcutta Viswakos titled Marx and Mathematics The sources of the texts included in the three parts of this collection and some biographical information about their respective authors have been indicated at the end of each text The emergence and development of the Ethnomathematics movement continue to change our understanding of the history of evolution of plural mathematics on planet earth since the Neolithic age Rediscovery and study of some of the neglected source texts have further energized investigations on the subsequent history of mathematical cultures including those on the histories of algebra and analysis in some of the ancient and medieval languages of Asia like Sanskrit Arabic and Malayalam Consequently it is now possible to indicate some of the larger gaps in the dominant understanding of history of mathematics not only in Marx s time but also at the time of editing Marx s mathematical manuscripts in the twentieth century and even today Finally the emergence and development of mathematical and statistical software packages are vigorously reshaping our ways of conceptualizing and doing mathematics towards an unknown future It is time now for taking yet another look at all mathematical text from the past and that includes the mathematical manuscripts of Marx These texts have been divided into three parts Part one contains some topical texts related to the history of emergence development editing publication and reception of the mathematical manuscripts of Karl Marx Part two contains a selection of five articles reflecting some of the investigations inspired by these manuscripts in Russia India and France Part three contains five articles on plural mathematics before and after Karl Marx 1818 1883 The texts in this collection are followed by two appendices containing two bibliographies one on Hegel and mathematics and the other on mathematics and semiotics Please note This title is co published with Aakar Books Bew Delhi Taylor Francis does not sell or distribute the print edition in South Asia India Sri Lanka Nepal Bangladesh Pakistan Maldives or Bhutan

Menelaus' ›Spherics‹ Roshdi Rashed,Athanase Papadopoulos,2017-10-23 Despite its importance in the history of Ancient science Menelaus Spherics is still by and large unknown This treatise which lies at the foundation of spherical geometry is lost in Greek but has been preserved in its Arabic versions The reader will find here for the first time edited and translated into English the essentials of this tradition namely a fragment of an early Arabic translation and the first Arabic redaction of the Spherics composed by al M h n al Haraw together with a historical and mathematical study of Menelaus treatise With this book a new and important part of the Greek and Arabic legacy to the history of mathematics comes to light This book will be an indispensable acquisition for any reader interested in the history of Ancient geometry and science and more generally in Greek and Arabic science and culture **Ethics in Islam** Nuha Al-Shaar,2014-12-05 Offering a new reading of Islamic ethical and political thought in the B yid period 334 440 946 1048 this book focuses particularly on the philosopher Ab Hayy n al Tawh d who lived in Baghdad and what is now western Iran Ethics in Islam provides the first major treatment of al Tawh d s ethics political thought and social idealism investigating the complex influences that shaped this

thought and especially his concept of friendship which is analysed in the unique context of B yid society Al Tawh d revives the value of friendship in politics He introduces it as the best way to reform social and political order and as a means to the good life to restrain passion and self interest to bring about cooperation and promote reason and for action in opposition to religious zeal Instead of seeing him as alienated from society supposedly rejecting traditional Muslim beliefs this book places him in his historical and intellectual contexts and shows that while he was original in many ways his outlook was firmly rooted in the Islamic culture in which he was educated Contributing to modern discussions of Islam and political ethics this book is of interest to scholars and researchers of political philosophy comparative ethical thought and Islamic studies **An Arab Ambassador in the Mediterranean World** Nabil Matar,2015-04-10 This book provides translated selections from the writings of Muhammad Ibn Othman al Miknasi d 1799 The only writings by an Arab Muslim in the pre modern period that present a comparative perspective his travelogues provide unique insight with in to Christendom and Islam Translating excerpts from his three travelogues this book tells the story of al Miknasi s travels from 1779 1788 As an ambassador al Miknasi was privy to court life government offices and religious buildings and he provides detailed accounts of cities people customs ransom negotiations historical events and political institutions Including descriptions of Europeans Arabs Turks Christians both European and Eastern Muslims Jews and American Indians in the last quarter of the eighteenth century An Arab Ambassador in the Mediterranean World explores how the most travelled Muslim writer of the pre modern period saw the world from Spain to Arabia and from Morocco to Turkey with second hand information about the New World Supplemented with extensive notes detailing the historic and political relevance of the translations this book is of interest to researchers and scholars of Mediterranean History Ottoman Studies and Muslim Christian relations **Literature and the Islamic Court** Erez Naaman,2016-02-12 Courts were the most important frameworks for the production performance and evaluation of literature in medieval Islamic civilization Patrons vying for prestige attracted to their courts literary people who sought their financial support The most successful courts assembled outstanding literary people from across the region The court of the vizier and literary person al Sahib Ibn Abbad 326 385 938 995 in western Iran is one of the most remarkable examples of a medieval Islamic court with a sophisticated literary activity in Arabic and to a lesser extent in Persian Literature and the Islamic Court examines the literary activity at the court of al Sahib and sheds light on its functional logic It is an inquiry into the nature of a great medieval court where various genres of poetry and prose were produced performed and evaluated regularly Major aspects examined in the book are the patterns of patronage selection and auditioning the cultural codes and norms governing performance production and criticism the interaction between the patron and courtiers and among the courtiers themselves competition genres as productive molds the hegemonic literary taste and the courtly habitus This book reveals the significance these courts held as institutions that were at the heart of literary production in Arabic Using primary medieval Arabic sources this book offers a comprehensive analysis of Islamic courts and as such is of

key interest to students and scholars of Arabic literature Islamic history and medieval studies *The Best Writing on Mathematics 2015* Mircea Pitici,2016-01-12 The year s finest writing on mathematics from around the world This annual anthology brings together the year s finest mathematics writing from around the world Featuring promising new voices alongside some of the foremost names in the field The Best Writing on Mathematics 2015 makes available to a wide audience many articles not easily found anywhere else and you don t need to be a mathematician to enjoy them These writings offer surprising insights into the nature meaning and practice of mathematics today They delve into the history philosophy teaching and everyday occurrences of math and take readers behind the scenes of today s hottest mathematical debates Here David Hand explains why we should actually expect unlikely coincidences to happen Arthur Benjamin and Ethan Brown unveil techniques for improvising custom made magic number squares Dana Mackenzie describes how mathematicians are making essential contributions to the development of synthetic biology Steven Strogatz tells us why it s worth writing about math for people who are alienated from it Lisa Rougetet traces the earliest written descriptions of Nim a popular game of mathematical strategy Scott Aaronson looks at the unexpected implications of testing numbers for randomness and much much more In addition to presenting the year s most memorable writings on mathematics this must have anthology includes a bibliography of other notable writings and an introduction by the editor Mircea Pitici This book belongs on the shelf of anyone interested in where math has taken us and where it is headed   Routledge Handbook on the Sciences in Islamicate Societies Sonja Brentjes,2023-01-24 The Routledge Handbook on the Sciences in Islamicate Societies provides a comprehensive survey on science in the Islamic world from the 8th to the 19th century Across six sections a group of subject experts discuss and analyze scientific practices across a wide range of Islamicate societies The authors take into consideration several contexts in which science was practiced ranging from intellectual traditions and persuasions to institutions such as courts schools hospitals and observatories to the materiality of scientific practices including the arts and craftsmanship Chapters also devote attention to scientific practices of minority communities in Muslim majority societies and Muslim minority groups in societies outside the Islamicate world thereby allowing readers to better understand the opportunities and constraints of scientific practices under varying local conditions Through replacing Islam with Islamicate societies the book opens up ways to explain similarities and differences between diverse societies ruled by Muslim dynasties This handbook will be an invaluable resource for both established academics and students looking for an introduction to the field It will appeal to those involved in the study of the history of science the history of ideas intellectual history social or cultural history Islamic studies Middle East and African studies including history and studies of Muslim communities in Europe and South and East Asia   **Eastern Rome and the Rise of Islam** Olof Heilo,2015-11-19 The emergence of Islam in the seventh century AD still polarises scholars who seek to separate religious truth from the historical reality with which it is associated However history and prophecy are not solely defined by positive evidence or apocalyptic truth but by human

subjects who consider them to convey distinct messages and in turn make these messages meaningful to others These messages are mutually interdependent and analysed together provide new insights into history It is by way of this concept that Olof Heilo presents the decline of the Eastern Roman Empire as a key to understanding the rise of Islam two historical processes often perceived as distinct from one another Eastern Rome and the Rise of Islam highlights significant convergences between Early Islam and the Late Ancient world It suggests that Islam s rise is a feature of a common process during which tensions between imperial ambitions and apocalyptic beliefs in Europe and the Middle East cut straight across today s theological and political definitions The conquests of Islam the emergence of the caliphate and the transformation of the Roman and Christian world are approached from both prophetic anticipations in the Ancient and Late Ancient world and from the Medieval and Modern receptions of history In the shadow of their narratives it becomes possible to trace the outline of a shared history of Christianity and Islam The Dark Ages thus emerge not merely as a tale of sound and fury but as an era of openness diversity and unexpected possibilities Approaching the rise of Islam as a historical phenomenon this book opens new perspectives in the study of early religion and philosophy as well as providing a valuable resource for students and scholars of Islamic Studies *Legal Authority in Premodern Islam* Fachrizal A. Halim,2014-11-20 Offering a detailed analysis of the structure of authority in Islamic law this book focuses on the figure of Yahy b Sharaf al Nawaw who is regarded as the chief contributor to the legal tradition known as the Sh fi madhhab in traditional Muslim sources named after Muhammad b Idr s al Sh fi d 204 820 the supposed founder of the school of law Al Nawaw s legal authority is situated in a context where Muslims demanded to stabilize legal disposition that is consistent with the authority of the madhhab since in premodern Islamic society the ruling powers did not produce or promulgate law as was the case in other monarchic civilizations Al Nawaw s place in the long term formation of the madhhab is significant for many reasons but for one in particular his effort in reconciling the two major interpretive communities among the Sh fi ites i e the tar qas of the Iraqians and Khurasanians This book revisits the history of the Sh fi school in the pre Nawawic era and explores its later development in the post Nawawic period Presenting a comprehensive picture of the structure of authority in Islamic law specifically within the Shafi ite legal tradition this book is an essential resource for students and scholars of Islamic Studies History and Law **Routledge Revivals: Medieval Islamic Civilization (2006)** Josef Meri,2018-01-12 Islamic civilization flourished in the Middle Ages across a vast geographical area that spans today s Middle and Near East First published in 2006 Medieval Islamic Civilization examines the socio cultural history of the regions where Islam took hold between the 7th and 16th centuries This important two volume work contains over 700 alphabetically arranged entries contributed and signed by international scholars and experts in fields such as Arabic languages Arabic literature architecture history of science Islamic arts Islamic studies Middle Eastern studies Near Eastern studies politics religion Semitic studies theology and more Entries also explore the importance of interfaith relations and the permeation of persons ideas and objects across geographical and

intellectual boundaries between Europe and the Islamic world This reference work provides an exhaustive and vivid portrait of Islamic civilization and brings together in one authoritative text all aspects of Islamic civilization during the Middle Ages Accessible to scholars students and non specialists this resource will be of great use in research and understanding of the roots of today s Islamic society as well as the rich and vivid culture of medieval Islamic civilization   _Discourse in Translation_ Said Faiq,2018-11-21 This book explores the discourse in and of translation within and across cultures and languages From the macro aspects of translation as an inter cultural project to actual analysis of textual ingredients that contribute to translation and interpreting as discourse the ten chapters represent different explorations of global theories of discourse and translation Offering interrogations of theories and practices within different sociocultural environments and traditions Eastern and Western Discourse in Translation considers a plethora of domains including historiography ethics technical and legal discourse subtitling and the politics of media translation as representation This is key reading for all those working on translation and discourse within translation studies and linguistics   _Before Copernicus_ Rivka Feldhay,F. Jamil Ragep,2017-06-12 In 1984 Noel Swerdlow and Otto Neugebauer argued that Nicolaus Copernicus 1473 1543 explained planetary motion by using mathematical devices and astronomical models originally developed by Islamic astronomers in the thirteenth and fourteenth centuries Was this a parallel development or did Copernicus somehow learn of the work of his predecessors and if so how And if Copernicus did use material from the Islamic world how then should we understand the European context of his innovative cosmology Although Copernicus s work has been subject to a number of excellent studies there has been little attention paid to the sources and diverse cultures that might have inspired him Foregrounding the importance of interactions between Islamic and European astronomers and philosophers Before Copernicus explores the multi cultural multi religious and multi lingual context of learning on the eve of the Copernican revolution determining the relationship between Copernicus and his predecessors Essays by Christopher Celenza and Nancy Bisaha delve into the European cultural and intellectual contexts of the fifteenth century revealing both the profound differences between them and us and the nascent attitudes that would mark the turn to modernity Michael Shank F Jamil Ragep Sally Ragep and Robert Morrison depict the vibrant and creative work of astronomers in the Christian Islamic and Jewish worlds In other essays Rivka Feldhay Raz Chen Morris and Edith Sylla demonstrate the importance of shifting outlooks that were critical for the emergence of a new worldview Highlighting the often neglected intercultural exchange between Islam and early modern Europe Before Copernicus reimagines the scientific revolution in a global context   _INDIAN KNOWLEDGE SYSTEM THROUGH THE AGES: FROM VEDAS TO MODERN SCIENCE_ Dr. Ratna Das,Dr. Pritilaxmi Swain,Dr. Pranay Pandey,Mouchumi Duarah,2025-07-15 The chapters within this volume represent interdisciplinary perspectives from scholars and experts in philosophy science education health environmental studies linguistics and cultural studies These contributions reflect a rigorous inquiry into both textual sources and practical applications Themes such as the scientific temper in ancient

Indian texts sustainable living holistic medicine computational thinking in Sanskrit grammar and indigenous technologies are examined through both historical analysis and critical reflection **The City in the Muslim World** Mohammad Gharipour,Nilay Ozlu,2015-03-05 Presenting a critical yet innovative perspective on the cultural interactions between the East and the West this book questions the role of travel in the production of knowledge and in the construction of the idea of the Islamic city This volume brings together authors from various disciplines questioning the role of Western travel writing in the production of knowledge about the East particularly focusing on the cities of the Muslim world Instead of concentrating on a specific era chapters span the Medieval and Modern eras in order to present the transformation of both the idea of the Islamic city and also the act of traveling and travel writing Missions to the East whether initiated by military religious economic scientific diplomatic or touristic purposes resulted in a continuous construction de construction and re construction of the self and the other Including travel accounts which depicted cities extending from Europe to Asia and from Africa to Arabia chapters epitomize the construction of the Orient via textual or visual representations By examining various tools of representation such as drawings paintings cartography and photography in depicting the urban landscape in constant flux the book emphasizes the role of the mobile individual in defining city space and producing urban culture Scrutinising the role of travellers in producing the image of the world we know today this book is recommended for researchers scholars and students of Middle Eastern Studies Cultural Studies Architecture and Urbanism

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