

Donald R. Hill

**Studies in Medieval
Islamic Technology**

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Charles Burnett



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Wind, Water, Work Adam Lucas, 2006 This book is the most comprehensive empirical study to date of the social and technical aspects of milling during the ancient and medieval periods Drawing on the latest archaeological evidence and historical studies the book examines the chronological development and technical details of handmills beast mills watermills and windmills from the first millennium BCE to c 1500 It discusses the many and varied uses to which mills were turned in the civilisations of Rome China Islam and Europe and the many types of mill that existed The book also includes comparative regional studies of the social and economic significance of milling and tackles several important historiographical issues such as whether technological stagnation was a characteristic of late Antiquity whether there was an industrial revolution in the European Middle Ages based on waterpower and how contemporary studies in the social shaping of technology can shed light on the study of pre modern technology

A Bridge to the Sky Glaire D. Anderson, 2024 A Caliphal Daedalus examines connections between science and visual culture during the early Islamic scientific revolution of the caliphal age 650 1250 CE It takes as its point of departure the figure of Abbas Ibn Firnas d 887 the most famous scientist and polymath of early Islamic Spain The book considers his scientific activities as these intersected with design and craft culminating in the aeronautics experiment for which he is best known today as these are recounted in the Muqtabis the chronicle compiled by the Cordoban court historian Ibn Hayyan d 1076 It calls into question notions that medieval Islamic artisans and designers were anonymous individuals working outside elite social and intellectual circles The key passages from the chronicle are presented in English translation including the oldest and most

authoritative source for the aeronautics experiment The Arabic texts are examined in tandem with the earliest Islamic scientific instruments especially astrolabes and illustrated Arabic treatises of astronomy and engineering preserved in museums and libraries around the globe The book argues for a medieval Islamic court culture in which design and making were central to scientific intellectual pursuits and which may have shaped the culture of the Italian Renaissance

The 'Creed of Science' in Victorian England Roy M. MacLeod, 2024-10-28 The nineteenth century which saw the triumph of the idea of progress and improvement saw also the triumph of science as a political and cultural force In England as science and its methods claimed privilege and space its language acquired the vocabulary of religion The new creed of science embraced what John Tyndall called the scientific movement it was in the language of T H Huxley a militant creed The march of invention the discoveries of chemistry and the wonders of steam and electricity culminated in a crusade against ignorance and unbelief It was a creed that looked to its own apostolic succession from Copernicus Galileo and the martyrs of the scientific revolution Yet it was a creed whose doctrines were divisive and whose convictions resisted Alongside arguments for materialism utility positivism and evolutionary naturalism persisted reservations about the nature of man the role of ethics and the limits of scientific method These essays discuss leading strategists in the scientific movement of late Victorian England At the same time they show how science established served not only the scientific community but also the interests of imperial and colonial powers

A Shared Legacy Emilia Calvo, 2008 *Distinguished Figures in Mechanism and Machine Science* Marco Ceccarelli, 2009-12-01 This is the second volume of a series of edited books whose aim is to collect contributed papers within a framework that can serve as a collection of persons in MMS Mechanism and Machine Science This is a continuation of the first volume that was published in 2008 again combining very ancient and very recent scholars in order to give not only an encyclopaedic character to this project but also to emphasize the significance of MMS over time This project has the characteristic that the papers illustrate by recognizing persons and their scientific work mainly technical developments in the historical evolution of the fields that today are grouped in MMS Thus emphasis is also given to biographical notes describing efforts and experiences of people who have contributed to the technical achievements whose technical survey is the core of each contributed paper This second volume of the project has been possible thanks to the invited authors who have enthusiastically shared in this initiative and who have spent time and effort in preparing the papers The stand alone papers cover the wide field of the History of Mechanical Engineering with specific focus on MMS I believe that readers will take advantage of the papers in this book and future ones by supplying further satisfaction and motivation for her or his work historical or not

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 alas corrupted by careless copying and a table of geographical coordinates from 15th century Egypt

In Synchrony with the Heavens, Volume 1 Call of the Muezzin David King, 2004-02-01 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

Arabic into Latin in the Middle Ages Charles Burnett, 2024-10-28 This collection of Charles Burnett's articles on the transmission of Arabic learning to Europe concentrates on the identity of the Latin translators and the context in which they were working The articles are arranged in roughly chronological order beginning with the earliest known translations from Arabic at the end of the 10th century progressing through 11th century translations made in Southern Italy translators working in Sicily and the Principality of Antioch at the beginning of the 12th century the first of the 12th century Iberian translators the beginnings and development of professional translation activity in Toledo and the transfer of this activity from Toledo to Frederick II's entourage in the 13th century Most of the articles include editions of texts that either illustrate the style and character of the translator or provide the source material for his biobibliography

Whispering the Techniques of Language: An Psychological Journey through **Studies In Medieval Islamic Technology**

In a digitally-driven earth where screens reign supreme and immediate connection drowns out the subtleties of language, the profound techniques and psychological nuances concealed within words usually go unheard. However, set within the pages of **Studies In Medieval Islamic Technology** a fascinating fictional prize sporting with organic thoughts, lies an exceptional journey waiting to be undertaken. Written by a talented wordsmith, this charming opus invites visitors on an introspective journey, delicately unraveling the veiled truths and profound affect resonating within the material of each and every word. Within the mental depths with this emotional review, we will embark upon a sincere exploration of the book is key styles, dissect their charming writing type, and fail to the powerful resonance it evokes serious within the recesses of readers hearts.

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