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ever since Newton created dynamics there has been controversy about its foundations are space and time absolute do they form a rigid but invisible framework and container of the universe or are space time and motion relative if so does Newton's framework arise through the influence of the universe at large as Ernst Mach suggested Einstein's aim when creating his general theory of relativity was to demonstrate this and thereby implement Mach's principle however it is widely believed that he achieved only partial success this question of whether motion is absolute or relative has been a central issue in philosophy the nature of time has perennial interest current attempts to create a quantum description of the whole universe keep these issues at the cutting edge of modern research

written by the world's leading expert on Mach's principle the discovery of dynamics is a highly original account of the development of notions about space time and motion widely praised in its hardback version it is one of the fullest and most readable accounts of the astronomical studies that culminated in Kepler's laws of planetary motion and of the creation of dynamics by Galileo Descartes Huygens and Newton originally published as *Absolute or Relative Motion* vol 1 the discovery of dynamics Cambridge the discovery of dynamics provides the technical background to Barbour's recently published *The End of Time* in which he argues that time disappears from the description of the quantum universe

the seventh book of Pappus's collection his commentary on the domain or treasury of analysis figures prominently in the history of both ancient and modern mathematics as our chief source of information concerning several lost works of the Greek geometers Euclid and Apollonius and as a book that inspired later mathematicians among them Viète Newton and Chasles to original discoveries in their pursuit of the lost science of antiquity this presentation of it is concerned solely with recovering what can be learned from Pappus about Greek mathematics the main part of it comprises a new edition of book 7 a literal translation and a commentary on textual historical and mathematical aspects of the book it proved to be convenient to divide the commentary into two parts the notes to the text and translation and essays about the lost works that Pappus discusses the first function of an edition of this kind is not to expose new discoveries but to present a reliable text and organize the accumulated knowledge about it for the reader's convenience nevertheless there are novelties here the text is based on a fresh transcription of Vat. gr. 218 the archetype of all extant manuscripts and in it I have adopted numerous readings on manuscript authority or by emendation that differ from those of the old edition of Hultsch moreover many difficult parts of the work have received little or no commentary hitherto

this source book explores a millennium of European scientific thought accompanied by critical commentary and annotation nearly half the selections appear for the first time in the vernacular representing science in the medieval sense selections include alchemy astrology logic and theology as well as mathematics physics and biology

science is a living organic activity the meaning and understanding of which have evolved incrementally over human history this book the first in a roughly chronological series explores the development of the methodology and major ideas of science in historical context from ancient times to the decline of classical civilizations around 300 A.D. it includes details specific to the histories of specialized sciences including astronomy medicine and physics along with Roman engineering and Greek philosophy it closely describes the contributions of such individuals as Pythagoras Hippocrates Socrates Plato Aristotle Alexander the Great Euclid Archimedes Ptolemy Seneca Pliny the Elder and Galen

a well illustrated historical survey of the science of measuring the brightness and colours of stars for professional astronomers amateur astronomers and historians

of science

the school of salamanca in the affairs of the indies explores the significance of salamancans such as vitoria and soto and related thinkers such as las casas and sep²veda in the formation of the early modern political order it also analyses early modern understandings of political order with a focus both on the decline of the medieval universal world through the independence and secularization of political community and the establishment of continuous and imbalanced relations between various european and non european political communities through its investigation this book highlights how salamancans and related thinkers clearly distinguished their understandings of political order from medieval thought and did so in a different way to contemporary and later thinkers such as machiavelli luther bodin and grotius particularly with regards to the indies barbarian worlds it also reveals the strong contribution of the school of salamanca in early modern political thought both internally and externally salamancans imposed moral restrictions against interior barbarism that is power beyond law and included exterior barbarism that is barbarian societies in the common political order situating the school of salamanca in the mainstream history of european political thought the school of salamanca in the affairs of the indies is ideal for academics and postgraduate students of intellectual history and of spanish colonial expansion

flat earth fallacies are just one more way to muddy the waters in the creation and evolution debate as well as trying to discredit the bible as being inaccurate and christianity as an empty hoax now be prepared when faced with these untruths and misleading agendas and get the facts regarding the flat earth fallacy powerful answers to refute misleading and false flat earth claims important thoroughly researched historical and scientific evidences disproving a flat earth vital context of biblical truths and effective apologetics for christians enjoy a fascinating look at discoveries science and the church throughout history as it faces down and disproves over and over again flat earth fallacies

a review of astronomy varies

an illustrated encyclopedia with articles on history literature art and music geography mathematics science sports and other topics some articles include activities games or experiments

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