

Chapter 3 Accelerated Motion Quia

Controversies Within the Scientific Revolution
Homage to Evangelista Torricelli's Opera Geometrica 1644–2024
Honoré Fabri and the Concept of Impetus: A Bridge between Conceptual Frameworks
Transactions of the American Philosophical Society
Swinging and Rolling
Quia inter doctores est magna dissensio
Transactions of the American Philosophical N.s. V.45 Pt.4-6
Clarence Luther Herrick
Defense Counsel Journal
The Oxford Calculators and the Mathematics of Motion, 1320-1350
Mechanics in the Seventeenth Century
Researches on the Evolution of the Stellar Systems ...: The capture theory of cosmical evolution, founded on dynamical principles and illustrated by phenomena observed in the spiral nebulae, the planetary system, the double and multiple stars and clusters and the star-clouds of the Milky way
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Physics, a Human Endeavour: Motion
Classica Et Mediaevalia
Method and Order in Renaissance Philosophy of Nature
Galileo Galilei and Motion
Boston Studies in the Philosophy of Science
Force in Newton's Physics
Theories of Motion, Time and Place in Mid-fourteenth Century France
Marcelo Dascal Raffaele Pisano Michael Elazar Jochen Büttner Stefano Caroti Philadelphia American Philosophical Society Charles Judson Herrick Edith Dudley Sylla René Dugas T. J. J. See T. J. J. See Douglas Paul Daniel A. Di Liscia Roberto Vergara Caffarelli Carla Rita Palmerino Richard S. Westfall Kevin Dermott Smith

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from the beginning of the scientific revolution around the late sixteenth century to its final crystallization in the early eighteenth century hardly an observational result an experimental technique a theory a mathematical proof a methodological principle or the award of recognition and reputation remained unquestioned for long the essays collected in this book examine the rich texture of debates that comprised the scientific revolution from which the modern conception of science emerged were controversies marginal episodes restricted to certain fields or were they the rule in the majority of scientific domains to what extent did scientific controversies share a typical pattern which distinguished them from debates in other fields answers to these historical and philosophical questions are sought through a close attention to specific controversies within and across the changing scientific disciplines as well as across the borders of the natural and the human sciences philosophy theology and technology

evangelista torricelli exemplifies the use the moderns made of the ancients mathematical methods celebrating evangelista torricelli's monumental opera geometrica this book marks 380 years since its publication 1644 2024 this homage to torricelli introduces the magnificent major work in mechanics and mathematics of a brilliant archimedean and galilean scientist to modern readers opera geometrica deals with motion mechanics and geometry infinitesimals in quibus archimedis doctrina torricelli also presents his mechanical principle of equilibrium the foundation of the modern principle of virtual work static this outstanding source and research book spotlights the relevance and originality of torricelli's mechanics and is the first and most profound analysis of the opera geometrica to date the historical study is achieved in extensive introduction 5 essays and an accurate transcription of opera geometrica with parallel side by side text including substantive explicative notes the book is an accessible avenue to understanding this work by leading authorities who offer much needed insights into the relationship physics mathematics mechanics and fundamentals it appeals to historians epistemologists and scientists

this book discusses the impetus based physics of the jesuit natural philosopher and mathematician honoré fabri 1608 1688 a senior representative of jesuit scientists during the period between galileo's death 1642 and newton's principia 1687 it shows how fabri while remaining loyal to a general aristotelian outlook managed to reinterpret the old concept of impetus in such a way as to assimilate into his physics building blocks of modern science like galileo's law of fall and descartes principle of inertia this account of fabri's theory is a novel one since his physics is commonly considered as a dogmatic rejection of the new science not essentially different from the medieval impetus theory this book shows how new science principles were taught in jesuit colleges in the 1640s thus depicting the sophisticated manner in which new ideas were settling within the lion's den of catholic education

held at philadelphia for promoting useful knowledge

this volume explores the reorganisation of knowledge taking place in the course of galileo's research process extending over a period of more than thirty years pursued within a network of exchanges with his contemporaries and documented by a vast collection of research notes it has revealed the challenging objects that motivated and shaped galileo's thinking and closely followed the knowledge reorganization engendered by these challenges it has thus turned out for example that the problem of reducing the properties of pendulum motion to the laws governing naturally accelerated motion on inclined planes was the mainspring for the formation of galileo's comprehensive theory of naturally accelerated motion

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the volume results from a seminar sponsored by the foundation for intellectual history at the herzog august bibliothek wolffenbüttel in 1992 starting with the theory of regressus as displayed in its most developed form by william wallace these papers enter the vast field of the renaissance discussion on method as such in its historical and systematical context this is confined neither to the notion of method in the strict sense nor to the renaissance in its exact historical limits nor yet to the aristotelian tradition as a well defined philosophical school but requires a new scholarly approach thus besides galileo zabarella and their circles which are regarded as being crucial for the emergence of modern science in the end of the 16th century the contributors deal with the ancient and medieval origins as well as with the early modern continuity of the renaissance concepts of method and with non regressive methodologies in the various approaches of renaissance natural philosophy including the lutheran and calvinist traditions

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