

Thematic Origins Of Scientific Thought Kepler To Einstein

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the highly acclaimed first edition of this major work convincingly established gerald holton s analysis of the ways scientific ideas evolve his concept of themata induced from case studies with special attention to the work of einstein has become one of the chief tools for understanding scientific progress it is now one of the main approaches in the study of the initiation and acceptance of individual scientific insights three principal consequences of this perspective extend beyond the study of the history of science itself it provides philosophers of science with the kind of raw material on which some of the best work in their field is based it helps intellectual historians to redefine the place of modern science in contemporary culture by identifying influences on the scientific imagination and it prompts educators to reexamine the conventional concepts of education in science in this new edition holton has masterfully reshaped the contents and widened the coverage significant new material has been added including a penetrating account of the advent of quantum physics in the united states and a broad consideration of the integrity of science as exemplified in the work of niels bohr in addition a revised introduction and a new postscript provide an updated perspective on the role of themata the result of this thoroughgoing revision is an indispensable volume for scholars and students of scientific thought and intellectual history

an essential introductory textbook that shows students how science came to be such an important aspect of modern culture lively and readable it provides a rich historical survey of the major developments in scientific thought from the ancient greeks to the twentieth century john henry also explains how new scientific

theories have emerged and analyses their impact on contemporary thinking this is an ideal core text for modules on the history of science medicine and technology or the history and philosophy of science or a supplementary text for broader modules on european history or intellectual history which may be offered at the upper levels of an undergraduate history philosophy or science degree in addition it is a crucial resource for students who may be studying the history of science for the first time as part of a taught postgraduate degree in european history intellectual history science or philosophy

this book presents new insights into leibniz s research on planetary theory and his system of pre established harmony although some aspects of this theory have been explored in the literature others are less well known in particular the book offers new contributions on the connection between the planetary theory and the theory of gravitation it also provides an in depth discussion of kepler s influence on leibniz s planetary theory and more generally on leibniz s concept of pre established harmony three initial chapters presenting the mathematical and physical details of leibniz s works provide a frame of reference the book then goes on to discuss research on leibniz s conception of gravity and the connection between leibniz and kepler

foundations of science are specific conditions of the cosmos of human intelligence of cultural beliefs and of technological structures that make the pursuit of modern science possible each of the four foundations of scientific endeavour can be studied as a topic on its own the concurrent study of all four together reveals several tensions and interconnections among them that point the way to a greater unification of faith and science this book explores four foundations of scientific endeavour and investigates some of the paradoxes each of them raises kaiser shows that the resolution of these paradoxes inevitably leads us into theological discourse and raises new challenges for theological endeavour in order to address these challenges kaiser draws on the wider resources of the judeo christian tradition and argues for a refocusing of contemporary theology from the perspective of natural science

since the publication in 1896 of andrew dickson white s classic history of the warfare of science with theology in christendom no comprehensive history of the subject has appeared in the english language although many twentieth century historians have written on the relationship between christianity and science and in the process have called into question many of white s conclusions the image of warfare lingers in the public mind to provide an up to date alternative based on the best available scholarship and written in nontechnical language the editors of this volume have assembled an international group of distinguished historians in eighteen essays prepared especially for this book these authors cover the period from the early christian church to the twentieth century offering fresh appraisals of such encounters as the trial of galileo the formulation of the newtonian worldview the coming of darwinism and the ongoing controversies over scientific creationism they explore not only the impact of religion on science but also the influence of science and religion this landmark volume promises not only to silence the persistent rumors of war between christianity and science but also serve as the point of departure for new explorations of their relationship scholars and general readers alike will find it provocative and readable since the publication in 1896 of andrew dickson white s classic history of the warfare of science with theology in christendom no comprehensive history of the subject has appeared in the english language although many twentieth century historians

using previously unstudied sources this interdisciplinary study considers theology and the beginnings of

modern science at the university of t[ü]bingen in the time of johannes kepler 1571 1630 the author casts light upon the origins of modern scientific method by examining the relationship between theology astronomy and dialectics at the university in the work of kepler s teachers studies of kepler generally treat him as a precursor of the modern scientist the influences upon him are identified as platonist or pythagorean and his theological interests have often been ignored or considered as a mystical aberration unworthy of in depth treatment there has been no serious attempt to place kepler s work in the wider tradition of mainstream 16th century thought this study portrays and analyses the influences and ideas which permeated the life of the university in t[ü]bingen in the second half of the 16th century and places them in relationship to the theology of martin luther and philip melanchthon it pays particular attention to the use of theological concepts astronomical observations logical demonstrations and the categories of physics and to the interplay between them

he present volume is part of a larger project which is the attempt to draft a t coherent doctrine of divine eternity and god s relationship to time in my god l time and eternity i argued that whether one construes divine eternity in terms of timelessness or of omnitemporality will depend crucially upon one s views about the objectivity of tensed facts and temporal becoming if one adopts a tensed or in mctaggart s terminology an a theory of time then a coherent doctrine of divine eternity requires that one construe god at least since the moment of creation to exist temporally which implies that divine timelessness can be successfully maintained only if a tenseless or b theory of time is correct accordingly in my companion volumes the tensed theory of time a critical examination and the tenseless theory of time a critical examination i set for myself the task of 2 adjudicating the a vs b theory of time in the former volume r examine arguments for and against the a theory of time and in the latter l tum to an examination of arguments for and against the b theory this inquiry tookme into a study of relativity theory its presuppositions and implications the paucity of integrative literature dealing with the concept of god and relativity theory is striking

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Introduction

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