

Thematic Origins Of Scientific Thought Kepler To Einstein

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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

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

shortened version of herder and the philosophy and history of science

scientific thinking is a practical guide to inductive reasoning the sort of reasoning that is commonly used in scientific activity whether such activity is performed by a scientist a reporter a political pollster or any one of us in day to day life the book provides comprehensive coverage of such topics as confirmation sampling correlations causality hypotheses and experimental methods martin s writing confounds those who would think that such topics must be dry as dust presenting ideas in a lively and engaging tone and incorporating amusing examples throughout this book underlines the importance of acquiring good habits of scientific thinking and helps to instill those habits in the reader stimulating questions and exercises are included in each chapter

first published in 1962 the origins of science tries to explain scientific thought from its historical and psychological origins the depth of psychology of today rather than traditional epistemology is needed in order to understand the problems of knowledge reality is the first problem of the scientist it is exemplified by the idea of object or of matter the development of this idea from its greek beginnings is traced and the unconscious mechanisms that underlie our thought processes of abstraction generalisation etc are made manifest the second problem is that of truth it is illustrated by examples from the history of mathematics and of logic again the psychology of what we accept as truth is made explicit scientific method is the intellectual safeguard for the criteria of truth and reality instead of traditional induction the creative view of scientific activity must be accepted this book is a must read for scholars and researchers of philosophy of science and philosophy in general

this book offers a comprehensive analysis on the evolution of philosophy of science with a special emphasis on the european tradition of the twentieth century at first it shows how the epistemological problem of the objectivity of knowledge and axiomatic knowledge have been previously tackled by transcendentalism critical rationalism and hermeneutics in turn it analyses the axiological dimension of scientific research moving from traditional model of science and of scientific methods to the construction of a new image of knowledge that leverages the philosophical tradition of the milan school using this historical epistemological approach the author rethinks the kantian transcendental showing how it could be better integrated in the current philosophy of science to answer important questions such as the relationship between science and history scientific and social perspectives and philosophy and technology among others not only this book provides a comprehensive study of the evolution of european philosophy of science in the twentieth century yet it offers a new historical and epistemological based approach that could be used to answers many urgent questions of contemporary societies

in the 1930s a pareto vogue emerged in the english speaking world in italy

however the paretian episode was already well established with many italian economists investigating the relationship between economics and sociology based on pareto s contributions this is a study of the paretian school and its fiscal sociology

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