

Socionomics The Science Of History And Social Prediction

An Introduction to the Historiography of Science Science in History The Cambridge History of Science: Volume 3, Early Modern Science A Shorter History of Science Science in History A Shorter History of Science The Science of History The History of Science A Little History of Science From Natural Philosophy to the Sciences History of Science, History of Text The Birth of Modern Science A Short History of Science to the Nineteenth Century History, Historicity and Science History as a Social Science History As A Science History as Art and as Science The Science of History and the Hope of Mankind Scientific History Debating Contemporary Approaches to the History of Science Helge Kragh John Desmond Bernal David C. Lindberg William Cecil Dampier William Cecil Dampier Dampier Gustavus George Zerffi Massimo Mazzotti William Bynum David Cahan Karine Chemla Paolo Rossi Charles Singer Joseph Margolis F. Dvornik Hugh Taylor H. Stuart Hughes Benoy Kumar Sarkar Elena Aronova Lukas M. Verburgt

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Bynum David Cahan Karine Chemla Paolo Rossi Charles Singer Joseph Margolis F. Dovring Hugh Taylor H. Stuart Hughes Benoy Kumar Sarkar Elena Aronova Lukas M. Verburgt

this book introduces the methodological and philosophical problems with which modern history of science is concerned offering a comprehensive and critical review through description and evaluation of significant historiographical viewpoints incorporating discussion of key problems in general historical writing with examples drawn from a range of disciplines this non elementary introduction bridges the gap between general history and history of science following a review of the early development of the history of science the theory of history as applied to science history is introduced examining the basic problems which this generates including problems of periodisation ideological functions and the conflict between diachronical and anachronical historiography finally the book considers the critical use and analysis of historical sources and the possibility of the experiemental reconstruction of history aimed primarily at students the book s broad scope and integration of historical philosophical and scientific matters will interest philosophers sociologists and general historians for whom there is no alternative introduction to the subject at this level

an account of european knowledge of the natural world c 1500 1700

a spirited volume on the great adventures of science throughout history for curious readers of all ages

during the nineteenth century much of the modern scientific enterprise took shape scientific disciplines were formed institutions and communities were founded and unprecedented applications to and interactions with other aspects of society and culture occurred in this book eleven leading historians of science assess what their field has taught us about this exciting time and identify issues that remain unexamined or require reconsideration they treat both scientific disciplines biology physics chemistry the earth sciences mathematics and the social sciences in their specific intellectual and sociocultural contexts as well as the broader topics of science and medicine

science and religion scientific institutions and communities and science technology and industry providing a much needed overview and analysis of a rapidly expanding field from natural philosophy to the sciences will be essential for historians of science but also of great interest to scholars of all aspects of nineteenth century life and culture contributors bernadette bensaude vincent jed z buchwald david cahan joseph dauben frederick gregory michael hagner sungook hong david r oldroyd theodore m porter robert j richards ulrich wengenroth

this book explores the hypothesis that the types of inscription or text used by a given community of practitioners are designed in the very same process as the one producing concepts and results the book sets out to show how in exactly the same way as for the other outcomes of scientific activity all kinds of factors cognitive as well as cultural technological social or institutional conjoin in shaping the various types of writings and texts used by the practitioners of the sciences to make this point the book opts for a genuinely multicultural approach to the texts produced in the context of practices of knowledge it is predicated on the conviction that in order to approach any topic in the history of science from a theoretical point of view it may be fruitful to consider it from a global perspective the book hence does not only gather papers dealing with geometrical papyri of antiquity sixteenth century french books in algebra seventeenth century scientific manuscripts and paintings eighteenth and nineteenth century memoirs published by european academies or scientific journals and western opera omnia it also considers the problems of interpretation relating to reading babylonian clay tablets sanskrit oral scriptures and chinese books and illustrations thus it enables the reader to explore the diversity of forms which texts have taken in history and the wide range of uses they have inspired this volume will be of interest to historians philosophers of science linguists and anthropologists

this history of the birth of modern science shatters the illusion that science is dry and divorced from culture by exploring the powerful clashes between traditions and value systems that gave rise to it the author shows how many of the characteristics that distinguish science today emerged in the midst of the wars and plagues of the seventeenth century and defines what was new about this form of knowledge

cover half title title page copyright page table of contents list of contributors introduction 1 the concepts of physics rational contents and constructions in history 2 theory change and the logic of enquiry new bearings in philosophy of science 3 science history and philosophy in kant and hegel 4 historicity social psychology and change 5 the reality of history 6 the social location of scientific practices 7 kuhn different worlds and science as historical 8 incommensurability modestly recovered index

this essay has grown out of an attempt to find the answers to problems basically inherent in the making of historical re search widespread among humanists is a vagueness of con cepts which many times makes it difficult or impossible to translate our way of thinking into the terms of natural science or vice versa it sounds sometimes as if humanistic studies were a world of its own rather than a part of the natural world we all live in how long can we go on believing that there are different kinds of knowledge to this conflict of theory another is added a feeling of urgency about cultural problems that are too often left to the future to solve history is not as some natural scientists tend to believe a matter of no practical consequence it is a virulent factor in political and social conflicts and a basic substance in the structure of our personalities the present dynamic epoch raises with particular stress the problem of understanding the conditioning influence which the past exercises upon the present in each particular community such a substance is neither a toy for pastime hobbies nor an innocent weapon in the hands of dictators which is then the responsibility of the historian both for what he does and for what he abstains from doing the necessity to stay independent in order to approach objectivity makes for no easy answer

examining why the study of history as a science was not as advanced as other disciplines the author of this book originally published in 1933 examines the arguments in the controversy of what the object of history should be he then discusses the impact of the study of history on government war and revolution

professor hughes offers an earnest warning unless there is some emotional tie some elective affinity linking the student to his subject of study the results will be pedantic

and perfunctory in other words it is only a step from the sublime to the meticulous those eager to guard against that sad descent will find history as art and as science a guide a tonic and an inspiration its short electrifying essays are so magnificently sane and persuasive they should be required reading for every student who contemplates a major in history geoffrey bruun saturday review

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increasingly scholars in the humanities are calling for a reengagement with the natural sciences taking their cues from recent breakthroughs in genetics and the neurosciences advocates of big history are reassessing long held assumptions about the very definition of history its methods and its evidentiary base in scientific history elena aronova maps out historians continuous engagement with the methods tools values and scale of the natural sciences by examining several waves of their experimentation that surged highest at perceived times of trouble from the crisis ridden decades of the early twentieth century to the ruptures of the cold war the book explores the intertwined trajectories of six intellectuals and the larger programs they set in motion henri berr 1863 1954 nikolai bukharin 1888 1938 lucien febvre 1878 1956 nikolai vavilov 1887 1943 julian huxley 1887 1975 and john desmond bernal 1901 1971 though they held different political views spoke different languages and

pursued different goals these thinkers are representative of a larger motley crew who joined the techniques approaches and values of science with the writing of history and who created powerful institutions and networks to support their projects in tracing these submerged stories aronova reveals encounters that profoundly shaped our knowledge of the past reminding us that it is often the forgotten parts of history that are the most revealing

debating contemporary approaches to the history of science explores the main themes problems and challenges currently at the top of the discipline s methodological agenda in its chapters established and emerging scholars introduce and discuss new approaches to the history of science and revisit older perspectives which remain crucial each chapter is followed by a critical commentary from another scholar in the field and the author s response the volume looks at such topics as the importance of the global digital environmental and posthumanist turns for the history of science and the possibilities for the field of moving beyond a focus on ideas and texts towards active engagement with materials and practices it also addresses important issues about the relationship between history of science on the one hand and philosophy of science history of knowledge and ignorance studies on the other with its innovative format this volume provides an up to date authoritative overview of the field and also explores how and why the history of science is practiced it is essential reading for students and scholars eager to keep a finger on the pulse of what is happening in the history of science today and to contribute to where it might go next

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