

The Creation Of Scientific Effects Buchwald Jed Z

Exploratory Experiments More Than Nothing World Changes The Evolution of Knowledge Reader's Guide to the History of Science Wireless The Neglected Science of Motion Directory of History Departments and Organizations in the United States and Canada The Microscope and the Eye Historical Studies in the Physical and Biological Sciences Earth Sciences History Proceedings of the International Symposium on New Energy Proceedings ... Science in Denmark The Flux and Reflux of Science New Technical Books Science and Dissent in England, 1688-1945 Technology and Culture Science and Medicine in the Scottish Enlightenment The History of Mathematics from Antiquity to the Present Friedrich Steinle Aaron Sidney Wright Paul Gordon Horwich Jürgen Renn Arne Hessenbruch Sungook Hong Alberto Antonio Martínez Jutta Schickore Helge Kragh Michael Sean Reidy New York Public Library Paul Wood Charles W. J. Withers Joseph W. Dauben

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translated by alex levine the nineteenth century was a formative period for electromagnetism and electrodynamics hans christian orsted s groundbreaking discovery of the interaction between electricity and magnetism in 1820 inspired a wave of research led to the science of electrodynamics and resulted in the development of electromagnetic theory remarkably in response andre marie ampere and michael faraday developed two incompatible competing theories although their approaches and conceptual frameworks were fundamentally different together their work launched a technological revolution laying the foundation for our modern scientific understanding of electricity and one of the most important debates in physics between electrodynamic action at a distance and field theories in this foundational study friedrich steinle compares the influential work of ampere and faraday to reveal the prominent role of exploratory experimentation in the development of science while this exploratory phase was responsible for decisive conceptual innovations it has yet to be examined in such great detail focusing on ampere s and faraday s research practices reconstructed from previously unknown archival materials including laboratory notes diaries letters and interactions with instrument makers this book considers both the historic and epistemological basis of exploratory experimentation and its importance to scientific development

across decades and disciplines more than nothing offers a scoping history of the vacuum as a lens into the development of modern physics

thomas kuhn is viewed as one of the most influential and controversial philosophers of science and this re release of a classic examination of one of his seminal works reflects his continuing importance in world changes the contributors examine the work of kuhn from a broad philosophical perspective comparing earlier logical empiricism and logical positivism with the new philosophy of science inspired by kuhn in the early 1960s the nine chapters offer interpretations of his major work the structure of scientific revolutions and subsequent writings the introduction outlines the significant concepts of kuhn s work that are examined and is followed by a brief appraisal of kuhn by carl hempel the chapters discuss topics that include a systematic comparison of kuhn and carnap viewing similarities and differences the disputation of absolute truth rational theory evaluation and comparison applying theory to observation and the relation of models in a new conceptualization of theory content and interpreting kuhn s plurality of worlds thesis the volume also

presents four historical papers that speak to kuhn s views on lexical structures and concept formation and their antecedents the afterward by kuhn himself reviews his own philosophical development his thoughts on the dynamics of scientific growth and his response to issues raised by the contributors and other interpreters of his work

a fundamentally new approach to the history of science and technology this book presents a new way of thinking about the history of science and technology one that offers a grand narrative of human history in which knowledge serves as a critical factor of cultural evolution jürgen renn examines the role of knowledge in global transformations going back to the dawn of civilization while providing vital perspectives on the complex challenges confronting us today in the anthropocene this new geological epoch shaped by humankind renn reframes the history of science and technology within a much broader history of knowledge analyzing key episodes such as the evolution of writing the emergence of science in the ancient world the scientific revolution of early modernity the globalization of knowledge industrialization and the profound transformations wrought by modern science he investigates the evolution of knowledge using an array of disciplines and methods from cognitive science and experimental psychology to earth science and evolutionary biology the result is an entirely new framework for understanding structural changes in systems of knowledge and a bold new approach to the history and philosophy of science written by one of today s preeminent historians of science the evolution of knowledge features discussions of historiographical themes a glossary of key terms and practical insights on global issues ranging from climate change to digital capitalism this incisive book also serves as an invaluable introduction to the history of knowledge

the reader s guide to the history of science looks at the literature of science in some 550 entries on individuals einstein institutions and disciplines mathematics general themes romantic science and central concepts paradigm and fact the history of science is construed widely to include the history of medicine and technology as is reflected in the range of disciplines from which the international team of 200 contributors are drawn

a new look at the early history of wireless communication by 1897 guglielmo marconi had transformed james clerk maxwell s theory of electromagnetic

waves into a workable wireless telegraphy system and by 1907 lee de forest had invented the audion a feedback amplifier and oscillator that opened the way to practical radio transmission fifteen years after marconi s invention wireless had become an essential means of communication as well as a hobby for many this book offers a new perspective on the early days of wireless communication drawing on previously untapped archival evidence and recent work in the history and sociology of science and technology it examines the substance and context of both experimental and theoretical aspects of engineering and scientific practices in the first years of this technology it offers new insights into the relationship between marconi and his scientific advisor the physicist john ambrose fleming inventor of the vacuum tube it includes the full story of the infamous 1903 incident in which marconi s opponent nevil maskelyne interfered with fleming s public demonstration of marconi s syntonic tuning system at the royal institution by sending derogatory messages from his own transmitter the analysis of the maskelyne affair highlights the struggle between marconi and his opponents the efficacy of early syntonic devices fleming s role as a public witness to marconi s private experiments and the nature of marconi s shows it also provides a rare case study of how the credibility of an engineer can be created consumed and suddenly destroyed the book concludes with a discussion of de forest s audion and the shift from wireless telegraphy to radio

fully considering the epistemological metaphysical and methodological implications of a centuries old relationship the microscope and the eye is an important contribution to the history of the life sciences vision studies and scientific methodology book jacket

although denmark a small country on the european periphery has only made a modest contribution to decisive progress in scientific research on the international arena there have nevertheless been numerous significant danish contributions and naturally this present work describes these high points while the high points are represented by scientists like tycho brahe h c Ørsted and niels bohr this publication distances itself from prevailing heroic presentations by putting weight on the dependence of these scientists on a wide ranging professional network as well as close contacts to private patrons the state and other sponsors even though splendid pinnacles are also to be found the flat landscape is perhaps more representative of danish natural

science history in denmark the natural sciences as also applies to other sciences and culture in general have developed mainly through the reception of and adaptation to science from abroad reception history has therefore been given a prominent place in the work institutions and organisations history is another area that is given high priority just as great weight has been laid on the material economic and cultural framework under which research has always functioned although danish natural science researchers have nearly always emphasised the importance of international cooperation there are many national aspects of a social political and cultural type which have had significant influence on the scientific practice in denmark the present work is documented in such a way that it also makes sense to write the international scientists history in a national context and thereby placing the work solidly in a new and fast growing scientific historic genre

science and dissent in england 1688 1945 presents essays by internationally recognised experts on the relationships between puritanism dissent nonconformity and science in england it reassesses the topic and develops a better sense of the role played by dissenting protestants in the pursuit of science and technology in england from the glorious revolution to the end of the second world war by bringing together scholars from different periods science and dissent in england 1688 1945 develops a unique overview exploring the continuities and discontinuities between scientific inquiry and dissenting protestantism in england which provides a fresh perspective on the subject

writing to dugald stewart in june 1789 thomas jefferson enthused that as far as science was concerned no place in the world can pretend to a competition with edinburgh yet despite similar encomiums down the years the role of the natural sciences and medicine in the scottish enlightenment is still neither generally appreciated nor fully understood this collection of ten essays by scholars in the field provides a comprehensive overview of the place of scientific and medical enquiry in scotland during the period 1690 1815 each chapter presents new research in order to reflect upon previous interpretations and to suggest fresh perspectives on the relationship between science and medicine and culture and society in 18th century scotland collectively the essays illustrate both the centrality of natural and medical knowledge in enlightened culture and the wider implications of scotland s story for an understanding of

science and medicine in the modern world

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Introduction

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