

# The Creation Of Scientific Effects Buchwald Jed Z

Heinrich Hertz: Classical Physicist, Modern Philosopher More Than Nothing Exploratory Experiments Reader's Guide to the History of Science Boston Studies in the Philosophy of Science Wireless Philosophy, Science, and History The Neglected Science of Motion The MacArthur Fellows Program European Journal of Physics The Creation of Scientific Effects MacArthur Fellows Historical Studies in the Physical and Biological Sciences Encyclopedia of World Biography: Grimke-Howells The MacArthur Fellows Program Bibliographic Index Perspectives on Science History of Telecommunications Technology Whitaker's Books in Print New Dictionary of Scientific Biography D. Baird Aaron Sidney Wright Friedrich Steinle Arne Hessenbruch Sungook Hong Lydia Patton Alberto Antonio Martínez John D. and Catherine T. MacArthur Foundation Jed Z. Buchwald Christopher H. Sterling Noretta Koertge Heinrich Hertz: Classical Physicist, Modern Philosopher More Than Nothing Exploratory Experiments Reader's Guide to the History of Science Boston Studies in the Philosophy of Science Wireless Philosophy, Science, and History The Neglected Science of Motion The MacArthur Fellows Program European Journal of Physics The Creation of Scientific Effects MacArthur Fellows Historical Studies in the Physical and Biological Sciences Encyclopedia of World Biography: Grimke-Howells The MacArthur Fellows Program Bibliographic Index Perspectives on Science History of Telecommunications Technology Whitaker's Books in Print New Dictionary of Scientific Biography D. Baird Aaron Sidney Wright Friedrich Steinle Arne Hessenbruch Sungook Hong Lydia Patton Alberto Antonio Martínez John D. and Catherine T. MacArthur Foundation Jed Z. Buchwald Christopher H. Sterling Noretta Koertge

the sub title of this symposium is accurate and in a curious way promises more than it states classical physicist modern philosopher heinrich hertz as the con summate experimentalist of 19th century technique and as brilliant clarifying critic of physical theory of his time achieved one of the fulfilments but at the same time opened one of the transition points of classical physics thus in his popular lecture on the relations between light and electricity at heidelberg in the fall of 1889 hertz identified the ether as henceforth the most fundamental problem of physics as the conceptual mystery but also the key to understanding mass electric ity and gravity of hertz s demonstration of electric waves helmholtz told the physical society of berlin gentlemen i have to communicate to you today the most important physical discovery of the century hertz philosophizing in his direct lucid pithy style once wrote we have to imagine perhaps this is

metaphysics on the horizon in the early pages of his principles of mechanics we read a doubt which makes an impression on our mind cannot be removed by calling it metaphysical every thoughtful mind as such has needs which scientific men are accustomed to denote as metaphysical pm23 and at another place concerning the terms force and electricity and the alleged mystery of their natures hertz wrote we have an obscure feeling of this and want to have things cleared up

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

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

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

philosophy science and history a guide and reader is a compact overview of the history and philosophy of science that aims to introduce students to the groundwork of the field and to stimulate innovative research the general introduction focuses on scientific theory change assessment discovery and pursuit part i of the reader begins with classic texts in the history of logical empiricism including reichenbach s discovery justification distinction with careful reference to kuhn s analysis of scientific revolutions the section provides key texts analyzing the relationship of *h*opos to the history of science including texts by santayana rudwick and shapin and schaffer part ii provides texts illuminating central debates in the history of science and its philosophy these include the history of natural philosophy descartes newton leibniz kant hume and du châtelet in a new translation induction and the logic of discovery including the mill whewell debate duhem and hanson and catastrophism versus uniformitarianism in natural history playfair on hutton and lyell de buffon cuvier and darwin the editor s introductions to each section provide a broader perspective informed by contemporary research in each area including related topics each introduction furnishes proposals including thematic bibliographies for innovative research questions and projects in the classroom and in the field

this book is an attempt to reconstitute the tacit knowledge the shared unwritten assumptions values and understandings that shapes the work of science jed z buchwald uses as his focus the social and intellectual world of nineteenth century german physics drawing on the lab notes published papers and unpublished manuscripts of heinrich hertz buchwald recreates hertz s 1887 invention of a device that produced electromagnetic waves in wires the invention itself

was serendipitous and the device was quickly transformed but hertz's early experiments led to major innovations in electrodynamics. buchwald explores the difficulty hertz had in reconciling the theories of other physicists including hermann von helmholtz and james clerk maxwell and he considers the complex and often problematic connections between theory and experiment in this first detailed scientific biography of hertz and his scientific community. buchwald demonstrates that tacit knowledge can be recovered so that we can begin to identify the unspoken rules that govern scientific practice.

presents brief biographical sketches which provide vital statistics as well as information on the importance of the person listed

lists some 2 500 english language works related to the history of major telecommunications technologies over the past 175 years in addition to having sections devoted to the various media of communication radio television the internet etc the work covers institutional histories personal biographies general surveys and reference works this is an updated version of the 1972 work bibliography of the history of electronics annotation copyrighted by book news inc portland or

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