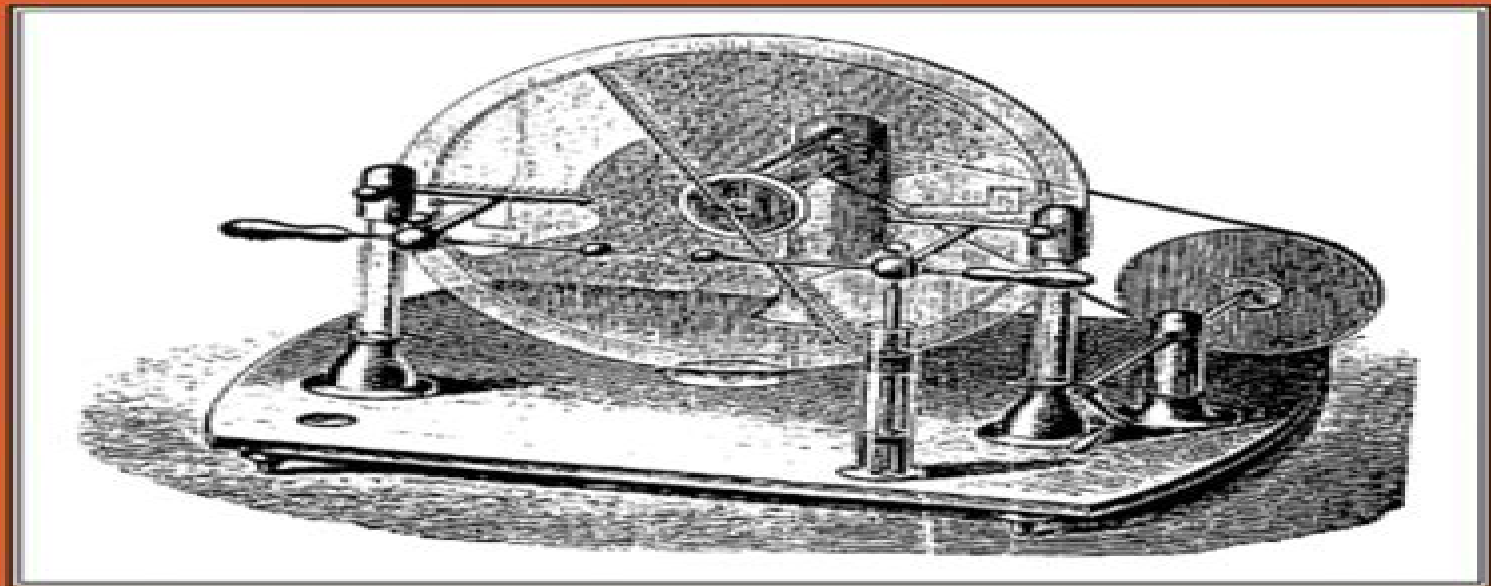


JED Z. BUCHWALD

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The  
CREATION OF  
SCIENTIFIC  
EFFECTS



*Heinrich Hertz and Electric Waves*

# Creation Of Scientific Effects Heinrich Hertz And Electric Waves

**Guido Bacciagaluppi, Olivier  
Darrigol, Thiago Hartz, Christian  
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## **Creation Of Scientific Effects Heinrich Hertz And Electric Waves:**

*The Creation of Scientific Effects* Jed Z. Buchwald, 1994-09-15 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the social and intellectual world of nineteenth century German physics Drawing on the lab notes published papers and unpublished manuscripts of Heinrich Hertz Buchwald recreates Hertz s 1887 invention of a device that produced electromagnetic waves in wires The invention itself was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

**Einstein's Revolution: A Study Of Theory Unification** Rinat M. Nugayev, 2018-03-06 Einstein s Revolution A Study of Theory Unification gives students of physics and philosophy and general readers an epistemological insight into the genesis of Einstein s special relativity and its further unification with other theories The book starts with an introductory analysis of the reasons for mature theory change in science This leads to a discussion about special relativity genesis It is contended that Einstein s ingenious approach to special relativity creation substantially distinguishing him from Lorentz s and Poincar s invaluable impacts turns to be a milestone of maxwellian electrodynamics statistical mechanics and thermodynamics reconciliation design Special relativity turns out to be grounded on Einstein s breakthrough 1905 light quantum hypothesis Eventually the author amends the received view on the general relativity genesis by stressing that the main reason for Einstein s victory over the rival programmes of Abraham and Nordstr m was a unificationist character of Einstein s research programme

**The Cambridge History of Science: Volume 5, The Modern Physical and Mathematical Sciences** David C. Lindberg, Mary Jo Nye, Roy Porter, Ronald L. Numbers, 2003 A new and comprehensive examination of the history of the modern physical and mathematical sciences

**Scientific Credibility and Technical Standards in 19th and early 20th century Germany and Britain** Jed Z.

Buchwald, 2012-12-06 The articles in this first volume of ARCHIMEDES explicitly and intentionally cross boundaries between science and technology and they also illuminate one another The first three contributions concern optics and industry in 19th century Germany the fourth concerns electric standards in Germany during the same period the last essay in the volume examines a curious development in the early history of wireless signalling that took place in England and that has much to say about the establishment and enforcement of standard methods in a rapidly developing technology that emerged out of a scientific effect Historical work over the last few decades has shown that technology cannot be characterized simply or even usually as applied science The beliefs the devices and the natural objects that are created or discovered by scientists often

play altogether minor roles in the construction of technologies Taking this realization as a given the essays in Scientific Credibility and Technical Standards effectively argue that we must now seek to go beyond it we must also begin to think carefully about the role that science actually did play when it was explicitly deployed by technologists

**Science in the 20th Century and Beyond** Jon Agar, 2013-05-20 A compelling history of science from 1900 to the present day this is the first book to survey modern developments in science during a century of unprecedented change conflict and uncertainty The scope is global Science's claim to access universal truths about the natural world made it an irresistible resource for industrial empires ideological programs and environmental campaigners during this period Science has been at the heart of twentieth century history from Einstein's new physics to the Manhattan Project from eugenics to the Human Genome Project or from the wonders of penicillin to the promises of biotechnology For some science would only thrive if autonomous and kept separate from the political world while for others science was the best guide to a planned and better future Science was both a routine if essential part of an orderly society and the disruptive source of bewildering transformation Jon Agar draws on a wave of recent scholarship that explores science from interdisciplinary perspectives to offer a readable synthesis that will be ideal for anyone curious about the profound place of science in the modern world

**The Oxford Handbook of the History of Quantum Interpretations** Guido Bacciagaluppi, Olivier Darrigol, Thiago Hartz, Christian Joas, Alexei Kojevnikov, 2022 This Oxford Handbook provides a rigorous interdisciplinary review of the history of interpretations of quantum physics presenting the key controversies within the field as well as outlining its successes and its extraordinary potential across various scientific fields

[Hermann von Helmholtz and the Foundations of Nineteenth-Century Science](#) David Cahan, 1994-01-12 Hermann von Helmholtz 1821-1894 was a polymath of dazzling intellectual range and energy Renowned for his co-discovery of the second law of thermodynamics and his invention of the ophthalmoscope Helmholtz also made many other contributions to physiology physical theory philosophy of science and mathematics and aesthetic thought During the late nineteenth century Helmholtz was revered as a scientist sage much like Albert Einstein in this century David Cahan has assembled an outstanding group of European and North American historians of science and philosophy for this intellectual biography of Helmholtz the first ever to critically assess both his published and unpublished writings It represents a significant contribution not only to Helmholtz scholarship but also to the history of nineteenth century science and philosophy in general

**Reader's Guide to the History of Science** Arne Hessenbruch, 2013-12-16 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

**Biographies of Scientific Objects** Lorraine Daston, 2000-06-15 Looks at how whole domains of phenomena come into being and sometimes pass away as objects of scientific study With examples

from the natural and social sciences ranging from the 16th to the 20th centuries this book explores the ways in which scientific objects are both real and historical

**From Natural Philosophy to the Sciences** David Cahan, 2003-09-15

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

*Draw the Lightning Down* Michael Brian Schiffer, 2006-03-02 Annotation A lively and entertaining study of early electrical technology this book brings to life the technologies and inventors most notably Benjamin Franklin who forged the way for our modern electrical world

*The Routledge Handbook of Philosophy of Scientific Modeling* Tarja Knuuttila, Natalia Carrillo, Rami Koskinen, 2024-09-05 Models and modeling have played an increasingly important role in philosophy going back to the nineteenth century While philosophical interest in models has been remarkably lively over the last two decades there are still many underexplored questions *The Routledge Handbook of Philosophy of Scientific Modeling* is an outstanding reference source and guide to this fast growing area and is the first volume of its kind Comprised of 40 specially commissioned chapters by an international team of contributors the Handbook is organized into five clear parts Historical and General Perspectives Philosophical Accounts of Modeling Methodological Aspects Model Construction Evaluation and Calibration Related Topics Modeling in the Wild Within these parts the Handbook covers a diverse range of topics including historical perspectives on modeling the relationship between models theories representation idealization and understanding and related topics like big data simulation and statistical and computational modeling Different kinds of models are discussed for example network models financial models and climate and synthetic models *The Routledge Handbook of Philosophy of Scientific Modeling* is essential reading for students and scholars of philosophy of science formal epistemology and philosophy of social sciences It is also a valuable resource for those in related fields such as computer science and information technology

**The Oxford Companion to the History of Modern Science** John L. Heilbron, 2003-02-14 Containing 609 encyclopedic articles written by more than 200 prominent scholars *The Oxford Companion to the History of Modern Science* presents an unparalleled history of the field invaluable to anyone with an

interest in the technology ideas discoveries and learned institutions that have shaped our world over the past five centuries Focusing on the period from the Renaissance to the early twenty first century the articles cover all disciplines Biology Alchemy Behaviorism historical periods the Scientific Revolution World War II the Cold War concepts Hypothesis Space and Time Ether and methodologies and philosophies Observation and Experiment Darwinism Coverage is international tracing the spread of science from its traditional centers and explaining how the prevailing knowledge of non Western societies has modified or contributed to the dominant global science as it is currently understood Revealing the interplay between science and the wider culture the Companion includes entries on topics such as minority groups art religion and science s practical applications One hundred biographies of the most iconic historic figures chosen for their contributions to science and the interest of their lives are also included Above all The Oxford Companion to the History of Modern Science is a companion to world history modern in coverage generous in breadth and cosmopolitan in scope The volume s utility is enhanced by a thematic outline of the entire contents a thorough system of cross referencing and a detailed index that enables the reader to follow a specific line of inquiry along various threads from multiple starting points Each essay has numerous suggestions for further reading all of which favor literature that is accessible to the general reader and a bibliographical essay provides a general overview of the scholarship in the field Lastly as a contribution to the visual appeal of the Companion over 100 black and white illustrations and an eight page color section capture the eye and spark the imagination *More Than Nothing* Aaron Sidney Wright,2024 Across decades and disciplines *More than Nothing* offers a scoping history of the vacuum as a lens into the development of modern physics **Mastering the History of Pure and Applied Mathematics** Toke Knudsen,Jessica Carter,2024-06-04 The present collection of essays are published in honor of the distinguished historian of mathematics Professor Emeritus Jesper L tzen In a career that spans more than four decades Professor L tzen s scholarly contributions have enhanced our understanding of the history development and organization of mathematics The essays cover a broad range of areas connected to Professor L tzen s work In addition to this noteworthy scholarship Professor L tzen has always been an exemplary colleague providing support to peers as well as new faculty and graduate students We dedicate this Festschrift to Professor L tzen as a scholarly role model mentor colleague and friend **The Science of Radio** Paul J. Nahin,2001-06-08 From the reviews The notes and problems at the end of each chapter are very helpful In the final analysis the book is definitely worth owning It is an extremely well written but unusual book that I highly recommend for all physicists The Physics Teacher **The World as We Know It** Peter Dear,2025-10-21 From the award winning author of *Revolutionizing the Sciences* a monumental historical account of how we came to see the world through the lens of science Science is the basis of our assumptions about ourselves and our world from ideas about our evolutionary past to our conceptions of the vast expanses of space and the smallest particles of matter In this panoramic book acclaimed historian of science Peter Dear uncovers the roots of such beliefs revealing how they constitute a natural philosophy that has been

developed and refined over the course of centuries and how the world as we have come to know it was by no means inevitable In a sweeping multifaceted narrative Dear describes some of the most breathtaking accomplishments in the advance of human knowledge such as Isaac Newton s laws of motion and gravitation Carl Linnaeus s taxonomy Antoine Lavoisier s new chemistry Charles Darwin s theory of evolution and Albert Einstein s theories of relativity Challenging the notion that science is only about making discoveries he shows how our world has been formed by people institutions and cultural assumptions giving rise to disciplines ranging from biology and astrophysics to electromagnetism and the social sciences Taking readers from the early eighteenth century to today *The World as We Know It* reveals how our ideas about our place in the universe were bequeathed to us by individuals cultures and a curiosity that knows no bounds

**Electronic Inventions and Discoveries** G.W.A Drummer,1997-01-01 In a remarkably short time electronics has penetrated almost every aspect of modern life and the pace of development in the field shows no sign of slackening One of the first books to cover electronic inventions in depth *Electronic Inventions and Discoveries Electronics from Its Earliest Beginnings to the Present Day* Fourth Edition traces the development of electronics from its earliest beginnings to the present day Spanning a period of two and a half centuries the book presents a mini encyclopedia full of valuable information on practically all inventions in electronics from 1745 to 1996 This fourth edition has been brought up to date and made more attractive by a complete redesign while still maintaining the successful features of previous editions The first nine chapters supply concise yet comprehensive histories of the main areas of the subject Subsequent chapters provide a list of inventions by subject and succinct descriptions of each invention in date order with over 1 000 references The book concludes with a list of acronyms and abbreviations a list of books on inventions and inventors and a comprehensive index During his seventy years in the field the author has collected a variety of published data to form an up to date systematic review of the major developments in electronics and the pattern of advances in electronic techniques The book forms an essential source of reference to practicing engineers wishing to broaden their knowledge Teachers and students who require a sound background and understanding of electronics will also find the book invaluable Written in an easily understood largely nontechnical language this fascinating and authoritative history of electronic developments will be of great interest to electronic hobbyists and general science readers

**Physicists** Dean Miller,2014-01-01 In this book a breakdown of the life and work of some of history s pioneers in the study of physics are thoroughly explored Notable physicists include Albert Einstein Stephen Hawking Isaac Newton and Galileo Galilei Their contribution to science and human kind is insurmountable This book provides excellent biographical sketches for trailblazers in physics Specific articles are devoted to the above mentioned scientists among others covering the contributions to their field specifically addressing how their research discoveries and inventions impacted human understanding and experience

**Scientific Authorship** Mario Biagioli,Peter Galison,2014-01-27 Since the seventeenth century our ideas of scientific authorship have expanded and changed dramatically In this ambitious

volume of new work Mario Biagioli and Peter Galison have brought together historians of science literary historians and historians of the book Together they track the changing nature and identity of the author in science both historically and conceptually from the emergence of scientific academies in the age of Galileo to concerns with large scale multiauthorship and intellectual property rights in the age of cloning labs and pharmaceutical giants How for example do we decide whether a chemical compound is discovered or invented What does it mean to patent genetic material Documenting the emergence of authorship in the late medieval period authorship s limits and its fragmentation Scientific Authorship offers a collective history of a complex relationship



## Whispering the Techniques of Language: An Emotional Journey through **Creation Of Scientific Effects Heinrich Hertz And Electric Waves**

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