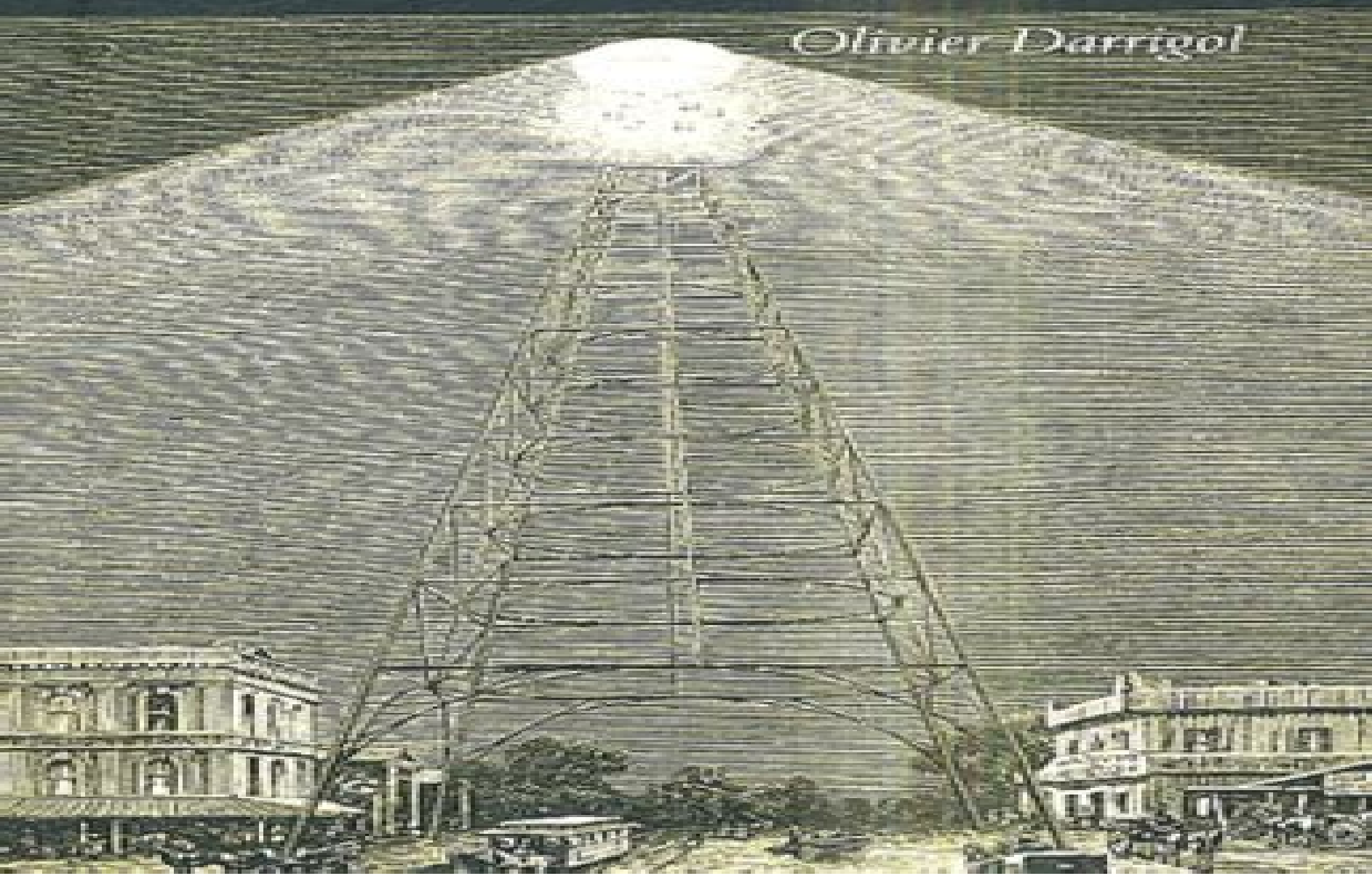


ELECTRODYNAMICS FROM AMPÈRE TO EINSTEIN

Olivier Darrigol



Electrodynamics From Ampere To Einstein

**Lizhen Ji, Athanase
Papadopoulos, Sumio Yamada**



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Electrodynamics from Ampère to Einstein Olivier Darrigol, 2003-06-26 This book recounts the developments of fundamental electrodynamics from Ampère's investigation of the forces between electric currents to Einstein's introduction of a new doctrine of space and time. The emphasis is on the diverse evolving practices of electrodynamics and the interactions between the corresponding scientific traditions. A richly documented, clearly written and abundantly illustrated history of the subject.

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Relativity Principles and Theories from Galileo to Einstein Olivier Darrigol, 2021-12-22 Motion is always relative to something. Is this thing a concrete body like the earth, is it an abstract space, or is it an imagined frame? Do the laws of physics depend on the choice of reference? Is there a choice for which the laws are simplest? Is this choice unique? Is there a physical cause for the choice made? These questions traverse the history of modern physics from Galileo to Einstein. The answers involved Galilean relativity, Newton's absolute space, the purely relational concepts of Descartes, Leibniz and Mach, and many forgotten uses of relativity principles in mechanics, optics and electrodynamics until the relativity theories of Poincaré, Einstein, Minkowski and Laue radically redefined space and time to satisfy universal kinds of relativity. Accordingly, this book retraces the emergence of relativity principles in early modern mechanics, documents their constructive use in eighteenth and nineteenth century mechanics, optics and electrodynamics, and gives a well-rooted account of the genesis of special and general relativity in the early twentieth century. As an exercise in long-term history, it demonstrates the connectivity of issues and approaches across several centuries despite enormous changes in context and culture. As an account of the genesis of relativity theories, it brings unprecedented clarity and fullness by broadening the spectrum of resources on which the principal actors drew.

The Real and the Complex: A History of Analysis in the 19th Century Jeremy Gray, 2015-10-14 This book contains a history of real and complex analysis in the nineteenth century, from the work of Lagrange and Fourier to the origins of set theory and the modern foundations of analysis. It studies the works of many contributors, including Gauss, Cauchy, Riemann and Weierstrass. This book is unique, owing to the treatment of real and complex analysis as overlapping inter-related subjects, in keeping with how they were seen at the time. It is suitable as a course in the history of mathematics for students who have studied an

introductory course in analysis and will enrich any course in undergraduate real or complex analysis

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 Poincaré'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 Nordström was a unificationist character of Einstein's research programme

The Reality of Time, and Einstein's Spider Web Rocco Vittorio Macri, 2020-05-21 The greatest mystery of all the enigma of Time shone like a blinding quasar upon the eyes of the creator of the Theory of Relativity Albert Einstein Indeed there has been no significant thinker from antiquity down to the present day who has not confronted the mystery of Time and made it an essential part of his own philosophy Even in Plotinus days the problem of Time was considered to be ancient and continually revived Thinking about Time is much like ploughing the ocean Despite this the Twentieth Century saw an unprecedented and new operational definition set forth by Einstein who stripped the notion of Time of all metaphysical content and made it ontologically eliminable The verdict in our days is Time does not exist Yet there have not been wanting thinkers who have attempted to swim against the current to throw down the gauntlet to the Murderer of Time to the Demolisher of the Absolute showing that the Time is not an illusion Time is real These stirring moments in the history of intellectual endeavour are collected here revivifying the philosophical face of every dissident The subject is interesting not only to experts in the field but also to every inquiring mind thirsting for historical truth The reader who is fascinated by the fundamental ideas of physics and philosophy will find great satisfaction here In addition he will find here the ultimate roots of our contemporary Weltanschauung

The Cambridge Companion to Einstein Michel Janssen, Christoph Lehner, 2014-05-19 This volume is the first systematic presentation of the work of Albert Einstein comprising fourteen essays by leading historians and philosophers of science that introduce readers to his work Following an introduction that places Einstein's work in the context of his life and times the book opens with essays on the papers of Einstein's miracle year 1905 covering Brownian motion light quanta and special relativity as well as his contributions to early quantum theory and the opposition to his light quantum hypothesis Further essays relate Einstein's path to the general theory of relativity 1915 and the beginnings of two fields it spawned relativistic cosmology and gravitational waves Essays on Einstein's later years examine his unified field theory program and his critique of quantum mechanics The closing essays explore the relation between Einstein's work

and twentieth century philosophy as well as his political writings *Weber's Electrodynamics* Andre Koch Torres Assis, 2013-03-14 Great progress has been made in electrical science chiefly in Germany by cultivators of the theory of action at a distance The valuable electrical measurements of W Weber are interpreted by him according to this theory and the electromagnetic speculation which was originated by Gauss and carried on by Weber Riemann F and C Neumann Lorenz etc is founded on the theory of action at a distance but depending either directly on the relative velocity of the particles or on the gradual propagation of something whether potential or force from the one particle to the other The great success which these eminent men have attained in the application of mathematics to electrical phenomena gives as is natural additional weight to their theoretical speculations so that those who as students of electricity turn to them as the greatest authorities in mathematical electricity would probably imbibe along with their mathematical methods their physical hypothesis These physical hypotheses however are entirely alien from the way of looking at things which I adopt and one object which I have in view is that some of those who wish to study electricity may by reading this treatise come to see that there is another way of treating the subject which is no less fitted to explain the phenomena and which though in some parts it may appear less definite corresponds as I think more faithfully with our actual knowledge both in what it affirms and in what it leaves undecided *From Riemann to Differential Geometry and Relativity* Lizhen Ji, Athanase Papadopoulos, Sumio

Yamada, 2017-10-03 This book explores the work of Bernhard Riemann and its impact on mathematics philosophy and physics It features contributions from a range of fields historical expositions and selected research articles that were motivated by Riemann's ideas and demonstrate their timelessness The editors are convinced of the tremendous value of going into Riemann's work in depth investigating his original ideas integrating them into a broader perspective and establishing ties with modern science and philosophy Accordingly the contributors to this volume are mathematicians physicists philosophers and historians of science The book offers a unique resource for students and researchers in the fields of mathematics physics and philosophy historians of science and more generally to a wide range of readers interested in the history of ideas

Archimedes to Hawking Clifford Pickover, 2008-04-16 Archimedes to Hawking takes the reader on a journey across the centuries as it explores the eponymous physical laws from Archimedes Law of Buoyancy and Kepler's Laws of Planetary Motion to Heisenberg's Uncertainty Principle and Hubble's Law of Cosmic Expansion whose ramifications have profoundly altered our everyday lives and our understanding of the universe Throughout this fascinating book Clifford Pickover invites us to share in the amazing adventures of brilliant quirky and passionate people after whom these laws are named These lawgivers turn out to be a fascinating diverse and sometimes eccentric group of people Many were extremely versatile polymaths human dynamos with a seemingly infinite supply of curiosity and energy and who worked in many different areas in science Others had non conventional educations and displayed their unusual talents from an early age Some experienced resistance to their ideas causing significant personal anguish Pickover examines more than 40 great laws providing brief and

cogent introductions to the science behind the laws as well as engaging biographies of such scientists as Newton Faraday Ohm Curie and Planck Throughout he includes fascinating little known tidbits relating to the law or lawgiver and he provides cross references to other laws or equations mentioned in the book For several entries he includes simple numerical examples and solved problems so that readers can have a hands on understanding of the application of the law A sweeping survey of scientific discovery as well as an intriguing portrait gallery of some of the greatest minds in history this superb volume will engage everyone interested in science and the physical world or in the dazzling creativity of these brilliant thinkers *Early Electrodynamics* R. A. R. Tricker, 2016-06-07 *Early Electrodynamics* discusses the history and initial developments in the theory for steady currents The volume consists primarily of analysis on thesis in the field of electric science A section of the book focuses on one thesis the *Dramatis Personae* An extensive account of the background of its author Hans Christian Oersted is given Another personality of merit is Jean Baptiste Biot He was one of the people who used a balloon to detect the oscillations of a small magnet This experiment was one of his attempts to study the magnetic action of electric currents The text contains a section on Ampere s philosophy of science This philosophy greatly contributed to the science of electricity Andre Marie Ampere conceptualized the theory of electrodynamics of steady currents Ampere also proposed the quantitative theory of magnetism A chapter of the book talks about the connection between an electrical conductor and a magnet The book will provide useful information to electrical engineers physicists students and researchers in the field of electricity

Physics Before and After Einstein M. Mamone Capria, Marco Mamone Capria, 2005-04-22 It is now a century ago that one of the icons of modern physics published some of the most influential scientific papers of all times With his work on relativity and quantum theory Albert Einstein has altered the field of physics forever It should not come as a surprise that looking back at Einstein s work one needs to rethink the whole scope of physics before and after his time This books aims to provide a perspective on the history of modern physics spanning from the late 19th century up to today It is not an encyclopaedic work but it presents the groundbreaking and sometimes provocative main contributions by Einstein as marking the line between old and new physics and expands on some of the developments and open issues to which they gave rise This presentation is not meant as a mere celebration of Einstein s work but as a critical appraisal which provides accurate historical and conceptual information The contributing authors all have a reputation for working on themes related to Einstein s work and its consequences Therefore the collection of papers gives a good representation of what happened in the 100 years after Einstein s landmark *Annalen der Physik* articles All people interested in the field of physics history of science and epistemology could benefit from this book An effort has been made to make the book attractive not only to scientists but also to people with a more basic knowledge of mathematics and physics **Historical Studies in the Natural Sciences** ,2008

Transformations of Electricity in Nineteenth-Century Literature and Science Stella Pratt-Smith, 2017-05-15 Throughout the nineteenth century practitioners of science writers of fiction and journalists wrote about electricity in ways

that defied epistemological and disciplinary boundaries Revealing electricity as a site for intense and imaginative Victorian speculation Stella Pratt Smith traces the synthesis of nineteenth century electricity made possible by the powerful combination of science literature and the popular imagination With electricity resisting clear description even by those such as Michael Faraday and James Clerk Maxwell who knew it best Pratt Smith argues that electricity was both metaphorically suggestive and open to imaginative speculation Her book engages with Victorian scientific texts popular and specialist periodicals and the work of leading midcentury novelists including Charles Dickens Charlotte Bronte Emily Bronte William Makepeace Thackeray and Wilkie Collins Examining the work of William Harrison Ainsworth and Edward Bulwer Lytton Pratt Smith explores how Victorian novelists attributed magical qualities to electricity imbuing it with both the romance of the past and the thrill of the future She concludes with a case study of Benjamin Lumley's *Another World* which presents an enticing fantasy of electricity's potential based on contemporary developments Ultimately her book contends that writing and reading about electricity appropriated and expanded its imaginative scope transformed its factual origins and applications and contravened the bounds of literary genres and disciplinary constraints

A to Z of Physicists, Updated Edition Darryl Leiter, 2019-11-01 *A to Z of Physicists Updated Edition* focuses not only on the lives and personalities of those profiled but also on their research and contributions to the field A fascinating and important element of this work is the attention paid to the obstacles that minority physicists had to overcome to reach their personal and professional goals Through incidents quotations and photographs the entries portray something of the human face which is often lost in books on science and scientists *A to Z of Physicists Updated Edition* features more than 150 entries and 51 black and white photographs Culturally inclusive and spanning the whole range of physicists from ancient times to the present day this is an ideal resource for students and general readers interested in the history of physics or the significant aspects of the personal and professional lives of important physicists People covered include Archimedes ca 285 212 BCE Homi Jehangir Bhabha 1909 1966 Pavel Alekseyevich Cherenkov 1904 1990 Marie Curie 1867 1934 George Gamow 1904 1968 Tsung Dao Lee 1926 present Lise Meitner 1878 1968 Yuval Ne'eman 1925 2006 Johannes Stark 1874 1957 Nikola Tesla 1856 1943 Alessandro Volta 1745 1827 Hideki Yukawa 1907 1981

Einstein's Generation Richard Staley, 2008 *Einstein's Generation* offers a new approach to the origins of modern physics by exploring both the material culture that stimulated relativity and the reaction of Einstein's colleagues to his pioneering work

Newtonian Electrodynamics Peter Graneau, Neal Graneau, 1996 The book deals with the resurgence of nineteenth century electromagnetism in physics and electrical engineering It describes a series of important experiments and new technologies based on these experiments which cannot be explained by and analyzed with the modern relativistic electrodynamics of the twentieth century The Newtonian electrodynamics of Coulomb Ampere Neumann and Kirchhoff which was current from 1750 to 1900 is fully reviewed and greatly extended to deal with contemporary research on exploding wires railguns and other electromagnetic accelerators jet propulsion in liquid metals arc

plasma explosions capillary fusion and lightning phenomena Much of the book is based on the atomic definition of the Amperian current element Finite element techniques for solving many electrodynamic problems are described *A History of Physics: Phenomena, Ideas and Mechanisms* Raffaele Pisano, 2024-09-19 The book gathers several contributions by historians of physics philosophers of science and scientists as new essays in the history of physics ranging across the entire field related in most instances to the works of Salvo D Agostino 1921 2020 one of the field s most prominent scholars since the second half of the past century A phenomenon is an observable measurable fact including data modelling assumptions laws A mechanical phenomenon is associated to equilibrium motion Are all mechanisms mechanisms of a phenomenon Scholars with different backgrounds discuss mechanism phenomena from an historical point of view The book is also devoted to understanding of causations of disequilibrium shock gravitational attraction repulsion inertia entropy etc including changes interaction in the framework of irregular cases of modern physics as well The book is an accessible avenue to understanding phenomena ideas and mechanisms by leading authorities who offer much needed historical insights into the field and on the relationship Physics Mathematics It provides an absorbing and revealing read for historians philosophers and scientists alike [Annales de la Fondation Louis de Broglie](#) ,2007

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