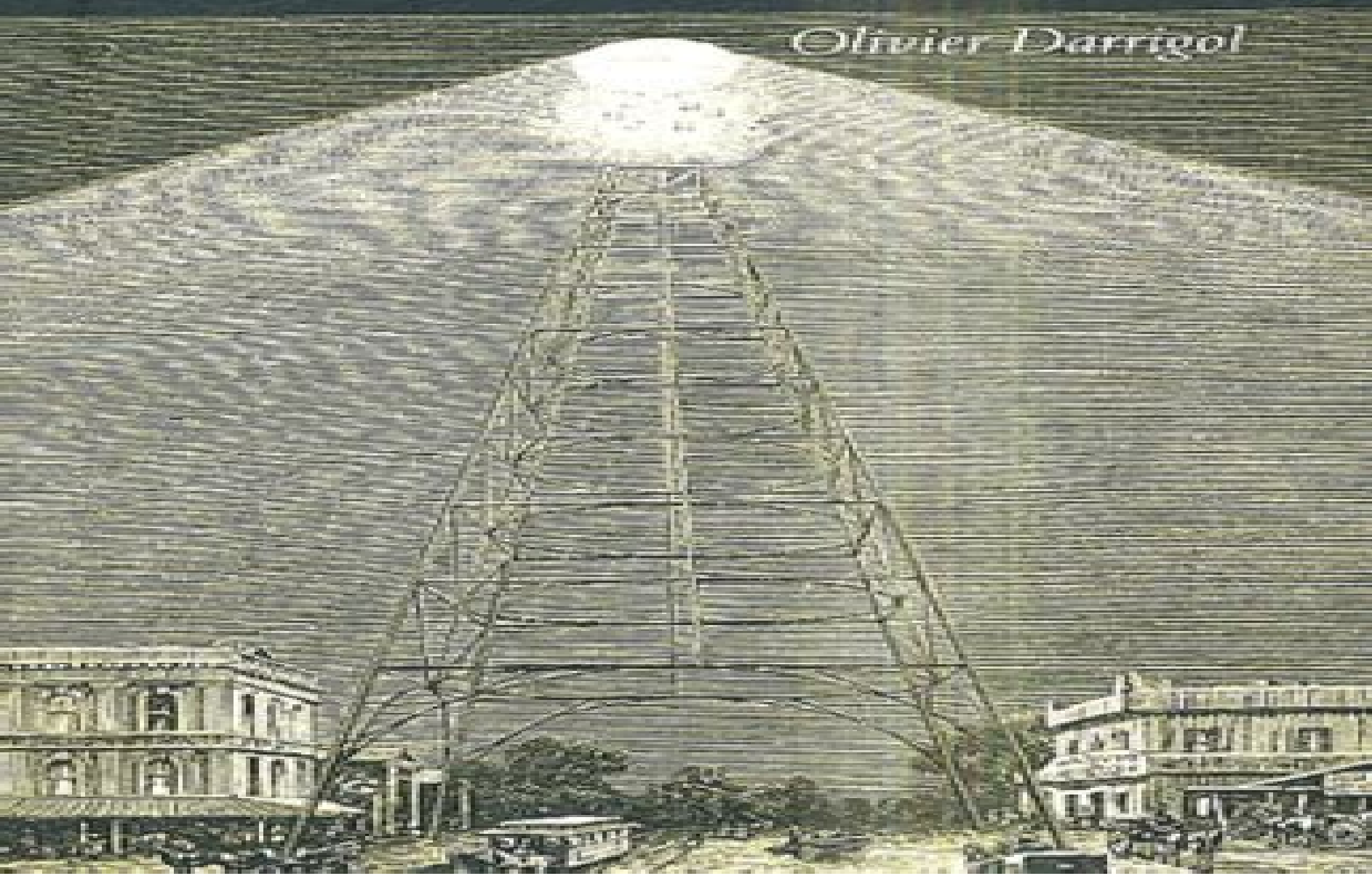


ELECTRODYNAMICS FROM AMPÈRE TO EINSTEIN

Olivier Darrigol



Electrodynamics From Ampere To Einstein

Olivier Darrigol



Electrodynamics From Ampere To Einstein:

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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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's genesis. It is contended that Einstein's ingenious approach to special relativity's 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's 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. 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 mid-century novelists including Charles Dickens, Charlotte Brontë, Emily Brontë, 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

Relativity Principles and Theories from Galileo to Einstein Olivier Darrigol, 2021-12-22 Motion is always relative to some thing 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

Physics Before and After Einstein M. 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 book 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 **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 **The Cambridge Companion to Einstein** Michel Janssen, Christoph Lehner, 2014-05-19 These fourteen essays by leading historians and philosophers of science introduce the reader to the work of Albert Einstein Following an introduction that places Einstein's work in the context of his life and times the essays explain his main contributions to physics in terms that are accessible to a general audience including special and general relativity quantum physics statistical physics and unified field theory The closing essays explore the relation between Einstein's work and twentieth century philosophy as well as his political writings 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 Probing the Sky with Radio Waves Chen-Pang Yeang, 2013-07-02 By the late nineteenth century engineers and experimental scientists generally knew how radio waves behaved and by 1901

scientists were able to manipulate them to transmit messages across long distances What no one could understand however was why radio waves followed the curvature of the Earth Theorists puzzled over this for nearly twenty years before physicists confirmed the zig zag theory a solution that led to the discovery of a layer in the Earth's upper atmosphere that bounces radio waves earthward the ionosphere In *Probing the Sky with Radio Waves* Chen Pang Yeang documents this monumental discovery and the advances in radio ionospheric propagation research that occurred in its aftermath Yeang illustrates how the discovery of the ionosphere transformed atmospheric science from what had been primarily an observational endeavor into an experimental science It also gave researchers a host of new theories experiments and instruments with which to better understand the atmosphere's constitution the origin of atmospheric electricity and how the sun and geomagnetism shape the Earth's atmosphere This book will be warmly welcomed by scholars of astronomy atmospheric science geoscience military and institutional history and the history and philosophy of science and technology as well as by radio amateurs and electrical engineers interested in historical perspectives on their craft

Quantum Field Theory III: Gauge Theory

Eberhard Zeidler, 2011-08-17 In this third volume of his modern introduction to quantum field theory Eberhard Zeidler examines the mathematical and physical aspects of gauge theory as a principle tool for describing the four fundamental forces which act in the universe gravitative electromagnetic weak interaction and strong interaction Volume III concentrates on the classical aspects of gauge theory describing the four fundamental forces by the curvature of appropriate fiber bundles This must be supplemented by the crucial but elusive quantization procedure The book is arranged in four sections devoted to realizing the universal principle force equals curvature Part I The Euclidean Manifold as a Paradigm Part II Ariadne's Thread in Gauge Theory Part III Einstein's Theory of Special Relativity Part IV Ariadne's Thread in Cohomology For students of mathematics the book is designed to demonstrate that detailed knowledge of the physical background helps to reveal interesting interrelationships among diverse mathematical topics Physics students will be exposed to a fairly advanced mathematics beyond the level covered in the typical physics curriculum Quantum Field Theory builds a bridge between mathematicians and physicists based on challenging questions about the fundamental forces in the universe macrocosmos and in the world of elementary particles microcosmos

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

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

Recent Approaches in the Theory of Plates and Plate-Like Structures Holm Altenbach, Svetlana Bauer, Victor A. Eremeyev, Gennadi I. Mikhasev, Nikita F. Morozov, 2022-01-01 This book presents the various approaches in establishment the basic equations of one and two dimensional structural elements In addition the boundaries of validity of the theories and the estimation of errors in approximate theories are given Many contributions contain not only new theories but also new applications which makes the book interesting for researcher and graduate students

Neoclassical Theory of Electromagnetic Interactions Anatoli Babin, Alexander Figotin, 2016-08-04 In this monograph the authors present their recently developed theory of electromagnetic interactions This neoclassical approach extends the classical electromagnetic theory down to atomic scales and allows the explanation of various non classical phenomena in the same framework While the classical Maxwell Lorentz electromagnetism theory succeeds in describing the physical reality at macroscopic scales it struggles at atomic scales Here quantum mechanics traditionally takes over to describe non classical phenomena such as the hydrogen spectrum and de Broglie waves By means of modifying the classical theory the approach presented here is able to consistently explain quantum mechanical effects and while similar to quantum mechanics in some respects this neoclassical theory also differs markedly from it In particular the newly developed framework omits probabilistic interpretations of the wave function and features a new fundamental spatial scale which at the size of the free electron is much larger than the classical electron radius and is relevant to plasmonics and emission physics This book will appeal to researchers interested in advanced aspects of electromagnetic theory Treating the classical approach in detail including non relativistic aspects and the Lagrangian framework and comparing the neoclassical

theory with quantum mechanics and the de Broglie Bohm theory this work is completely self contained **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 *The Second Physicist* Christa Jungnickel, Russell McCormmach, 2017-06-10 This book explores the rise of theoretical physics in 19th century Germany The authors show how the junior second physicist in German universities over time became the theoretical physicist of equal standing to the experimental physicist Gustav Kirchhoff Hermann von Helmholtz and Max Planck are among the great German theoretical physicists whose work and career are examined in this book Physics was then the only natural science in which theoretical work developed into a major teaching and research specialty in its own right Readers will discover how German physicists arrived at a well defined field of theoretical physics with well understood and generally accepted goals and needs The authors explain the nature of the work of theoretical physics with many examples taking care always to locate the research within the workplace The book is a revised and shortened version of Intellectual Mastery of Nature Theoretical Physics from Ohm to Einstein a two volume work by the same authors This new edition represents a reformulation of the larger work It retains what is most important in the original work while including new material sharpening discussions and making the research more accessible to readers It presents a thorough examination of a seminal era in physics *New Relativity in the Gravitational Universe* C. S. Unnikrishnan, 2022-11-04 Our vast Universe is filled with an enormous amount of matter and energy which are the source of large gravitational potentials affecting all physical phenomena Because this fact about the size and contents of the Universe was not known when our fundamental theories of dynamics and relativity were completed by the 1920s the current theories based as they are in empty space fail to incorporate cosmic gravity Though the current theories are consistent with the majority of empirical facts there are some crucial discrepancies which demand a drastic shift to a cosmic gravitational paradigm for the theories of relativity and dynamics The book is a detailed and widely accessible account of this paradigm called Cosmic Relativity supported by ample empirical evidence It is established that all motional relativistic effects are cosmic gravitational effects The new theory of Cosmic Relativity solves and answers all outstanding questions and puzzles about dynamics and relativity **Minkowski Spacetime: A Hundred Years Later** Vesselin Petkov, 2010-03-11 Celebrating the one hundredth anniversary of the 1909 publication of Minkowski's seminal paper Space and Time this volume includes a fresh translation as well as the original in German and a number of contributed papers on the still controversial subject

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