



THE ELECTROMAGNETIC ORIGIN OF QUANTUM THEORY AND LIGHT

Second Edition

Dale M. Grimes & Craig A. Grimes

Electromagnetism And Quantum Theory

Arturo Cuomo



Electromagnetism And Quantum Theory:

Quantum Theory of Near-Field Electrodynamics Ole Keller, 2012-02-02 Quantum Theory of Near field Electrodynamics gives a self contained account of the fundamental theory of field matter interaction on a subwavelength scale The quantum physical behavior of matter atoms and mesoscopic media in both classical and quantum fields is treated The role of local field effects and nonlocal electrodynamics and the tight links to the theory of spatial photon localization are emphasized The book may serve as a reference work in the field and is of general interest for physicists working in quantum optics mesoscopic electrodynamics and physical optics The macroscopic and microscopic classical theories form a good starting point for the quantum approach and these theories are presented in a manner appropriate for graduate students entering near field optics

Electromagnetic Origin Of Quantum Theory And Light, The (2nd Edition) Dale M Grimes, Craig A Grimes, 2004-12-13 Bell anchored the logic chain begun by Einstein Rosen and Podolsky and tested by Aspect et al showing that entangled electrons are nonlocal Feynman showed that free electrons are nonlocal in that they travel between any two points using all possible paths The authors postulate nonlocality of eigenstate electrons and find quantum theory arises from classical electromagnetic field theory Source fields for photons are detailed This volume Successfully bridges electromagnetism and quantum theory detailing their common origin Significantly reduces the postulatory base of quantum mechanics Is particularly useful for photonics scientists seeking to understand properties of light and Provides a complete electromagnetic description of photons and the Ritz photonic power frequency rules It is a valuable reference for all physics graduate students and professionals interested in the fundamentals of their science and for all electrical engineering graduate students and professionals interested in antennas

Electromagnetic and Quantum Measurements Tore Wessel-Berg, 2001 It is a pleasure to write a foreword for Professor Tore Wessel Berg s book Electromagnetic and Quantum Measurements A Bitemporal Neoclassical Theory This book appeals to me for several reasons The most important is that in this book Wessel Berg breaks from the pack The distinguished astrophysicist Thomas Gold has written about the pressures on scientists to move in tight formation to avoid having their legs nipped by the sheepdogs of science This book demonstrates that Wessel Berg is willing to take that risk I confess that I do not sufficiently understand this book to be able to either agree or disagree with its thesis Nevertheless Wessel Berg makes very cogent arguments for setting out on his journey The basic equations of physics are indeed time reversible Our experience that leads us to the concept of an arrow of time is derived from macro scopic phenomena not from fundamental microscopic phenomena For this reason it makes very good sense to explore the consequences of treating microscopic phenomena on the assumption that forward time and backward time are equal

Quantum Theory of Magnetism Robert M. White, 2013-04-18 Although it is one of the oldest physical phenomena studied magnetism continues to be an active and challenging subject This is due to the fact that magnetic phenomena represent a complex application of quantum mechanics statistical physics and electromagnetism As new magnetic materials

are synthesized and new experimental conditions realized the very fundamentals of these subjects are expanded Thus the Kondo effect like superconductivity stimulated the development of many body techniques spin glasses with their competing interactions are leading to advances in statistical physics and angle and spin resolved photoemission is probing details of transition metal electronic states never before possible I have not tried to incorporate all the new developments in this subject since the first edition ten years ago My purpose is still the same to use linear response theory to establish a common conceptual basis for understanding a variety of magnetic phenomena Many recent developments fit into this frame work and have been included

Electromagnetism and Quantum Theory Dale Mills Grimes, 1969 Electromagnetism Michael K H Kiessling, 2016-11-07 Superstring theory in its current version M theory has recently revived the nonlinear electromagnetic field theory of M Born and L Infeld an offspring of the relativistic field theory program of G Mie Mie theory played an instrumental role in D Hilbert s approach to general relativity However despite H Weyl s enthusiastic support of Mie s theory nearly 80 years ago little else on the subject is to be found in the literature after Pauli s harsh assessment of Mie s program Born Infeld theory has fared somewhat better yet has never occupied center stage in a monograph With the discovery of the beautiful differential geometric contents of Born Infeld theory through M theory the long curtain of silence on these fascinating nonlinear relativistic field theories is now lifting This book not only fills a gap in the monograph literature but presents exciting new perspectives offered by Born Infeld theory regarding the elusive consistent relativistic quantum theory of electromagnetism and superstring theory The ratio of classical to quantum materials is about 2 : 1 in this work The book begins with a rigorous and modern renormalized treatment of relativistic classical Lorentz electrodynamics This is followed by a presentation of Mie s leap to classical nonlinear electromagnetic field theory and its subsequent variant due to Born and Infeld The nonlinear field equations are studied in depth The book then continues with a novel leap into the relativistic quantum world of electromagnetism and concludes with a discussion of the differential geometric content of Born Infeld theory inspired by string theory The book assumes basic familiarity with the mathematical theory of classical electrodynamics special relativity and quantum physics but it is otherwise self contained It will be an excellent text for mathematical physicists and physicists as well as advanced graduate students of mathematical and theoretical physics with an interest in nonlinear relativistic field theory and quantum theory Mathematicians with an interest in dynamical systems nonlinear PDEs and differential geometry will also benefit from this book

Theories of Matter, Space and Time Nick Evans, Steve King, 2018-01-09 This book and its sequel Theories of Matter Space and Time Quantum Theories are taken from third and fourth year undergraduate Physics courses at Southampton University UK The aim of both books is to move beyond the initial courses in classical mechanics special relativity electromagnetism and quantum theory to more sophisticated views of these subjects and their interdependence The goal is to guide undergraduates through some of the trickier areas of theoretical physics with concise analysis while revealing the key elegance of each subject The first chapter introduces the

key areas of the principle of least action an alternative treatment of Newtonian dynamics that provides new understanding of conservation laws In particular it shows how the formalism evolved from Fermat's principle of least time in optics The second introduces special relativity leading quickly to the need and form of four vectors It develops four vectors for all kinematic variables and generalizes Newton's second law to the relativistic environment then returns to the principle of least action for a free relativistic particle The third chapter presents a review of the integral and differential forms of Maxwell's equations before massaging them to four vector form so that the Lorentz boost properties of electric and magnetic fields are transparent Again it then returns to the action principle to formulate minimal substitution for an electrically charged particle

The Electromagnetic Origin of Quantum Theory and Light Dale Mills Grimes, Craig A. Grimes, 2002 Presents a rigorous application of modern electromagnetic field theory to atomic theory **Quantum Theory Of Magnetism, The (2nd Edition)** Norberto Majlis, 2007-09-06 This advanced level textbook is devoted to the description of systems which show ordered magnetic phases A wide selection of topics is covered including a detailed treatment of the mean field approximation as the main paradigm for the phenomenological description of phase transitions The book discusses the properties of low dimensional systems and uses Green's functions extensively after a useful mathematical introduction A thorough presentation of the RKKY and related models of indirect exchange is also featured and a chapter on surface magnetism rarely found in other textbooks adds to the uniqueness of this book For the second edition three new chapters have been added namely on magnetic anisotropy on coherent magnon states and on local moments Additionally the chapter on itinerant magnetism has been enlarged by including a section on paramagnons Electromagnetic fields and interactions, 200?

Collective Electrodynamics Carver A. Mead, 2002-07-26 In this book Carver Mead offers a radically new approach to the standard problems of electromagnetic theory Motivated by the belief that the goal of scientific research should be the simplification and unification of knowledge he describes a new way of doing electrodynamics collective electrodynamics that does not rely on Maxwell's equations but rather uses the quantum nature of matter as its sole basis Collective electrodynamics is a way of looking at how electrons interact based on experiments that tell us about the electrons directly As Mead points out Maxwell had no access to these experiments The results Mead derives for standard electromagnetic problems are identical to those found in any text Collective electrodynamics reveals however that quantities that we usually think of as being very different are in fact the same that electromagnetic phenomena are simple and direct manifestations of quantum phenomena Mead views his approach as a first step toward reformulating quantum concepts in a clear and comprehensible manner The book is divided into five sections magnetic interaction of steady currents propagating waves electromagnetic energy radiation in free space and electromagnetic interaction of atoms In an engaging preface Mead tells how his approach to electromagnetic theory was inspired by his interaction with Richard Feynman **Quantum Electrodynamics** Iwo Białynicki-Birula, Zofia Białynicka-Birula, 2013-10-22 Quantum Electrodynamics focuses on the

formulation of quantum electrodynamics QED in its most general and most abstract form relativistic quantum field theory It describes QED as a program rather than a closed theory that rests on the theory of the quantum Maxwellian field interacting with given external classical sources of radiation and on the relativistic quantum mechanics of electrons interacting with a given external classical electromagnetic field Comprised of eight chapters this volume begins with an introduction to the fundamental principles of quantum theory formulated in a general abstract fashion The following chapters consider non relativistic quantum mechanics the theory of the electromagnetic field interacting with given sources of radiation the quantum mechanics of particles and the relativistic quantum mechanics of mutually non interacting electrons moving in a given electromagnetic field The formulation of QED is then described paying particular attention to perturbation theory and Feynman diagrams and electron photon processes The final two chapters deal with renormalization theory and applications of QED This book is addressed to readers who are familiar with quantum mechanics and classical electrodynamics at the level of university courses

Original Papers in Quantum Physics Max Planck,1972 *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

Fields and Particles Francis Bitter,Heinrich Medicus,1973 *The Quantum Theory of Light* Rodney Loudon,2000-09-07 This third edition like its two predecessors provides a detailed account of the basic theory needed to understand the properties of light and its interactions with atoms in particular the many nonclassical effects that have now been observed in quantum optical experiments The earlier chapters describe the quantum mechanics of various optical processes leading from the classical representation of the electromagnetic field to the quantum theory of light The later chapters develop the theoretical descriptions of some of the key experiments in quantum optics Over half of the material in this third edition is new It includes topics that have come into prominence over the last two decades such as

the beamsplitter theory squeezed light two photon interference balanced homodyne detection travelling wave attenuation and amplification quantum jumps and the ranges of nonlinear optical processes important in the generation of nonclassical light The book is written as a textbook with the treatment as a whole appropriate for graduate or postgraduate students while earlier chapters are also suitable for final year undergraduates Over 100 problems help to intensify the understanding of the material presented

The Present Status of the Quantum Theory of Light Stanley Jeffers, S. Roy, J.P. Vigiér, G. Hunter, 2012-12-06 THE PRESENT STATUS OF THE QUANTUM THEORY OF LIGHT In August of 1995 a group of over 70 physicists met at York University for a three day symposium in honour of Professor Jean Pierre Vigiér The attendance included theoretical and experimental physicists mathematicians astronomers and colleagues concerned with issues in the philosophy of science The symposium was entitled The Present Status of the Quantum Theory of Light in accordance with Professor Vigiér's wishes but in fact encompassed many of the areas to which Professor Vigiér has contributed over his long and distinguished career These include stochastic interpretations of quantum mechanics particle physics and electromagnetic theory The papers presented at the symposium have been arranged in this proceedings in the following approximate order ideas about the nature of light and photons electrodynamics the formulation and interpretation of quantum mechanics and aspects of relativity theory Some of the papers presented deal with alternate interpretations of quantum phenomena in the tradition of Vigiér Bohm et al These interpretations reject the account given in purely probabilistic terms and which deems individual quantum events to be acausal and not amenable to any analysis in space time terms As is well known Einstein and others also rejected the purely statistical account of quantum mechanics As stressed by Professor Vigiér at the symposium the current experimental situation now allows for the first time for individual quantum events to be studied e.g.

Electromagnetism - Principles And Modern Applications: With Exercises And Solutions Christopher White, 2023-03-14 Electromagnetism is one of the four fundamental forces in nature and underlies almost everything we experience in our daily lives whether we realise it or not The complete theory was first written down in the late 19th century and remains an essential part of a scientific education The mathematics behind the theory however can be intimidatingly complex Furthermore it is not always clear to beginners why the theory is either useful or interesting nor how it relates to modern research in theoretical physics The aim of this book is to guide students towards a detailed understanding of the full theory of electromagnetism including its practical applications Later chapters introduce more modern formulations of the theory than are found in traditional undergraduate courses thus bridging the gap between a first course in electromagnetism and the advanced concepts needed for further study in physics The final chapter reviews exciting current research stating that possible theories of quantum gravity may be much more closely related to electromagnetism than previously thought Throughout the book an informal conversational style is used to demystify intimidating concepts Relevant mathematical ideas are introduced in a self contained manner and exercises are provided with full solutions to aid

understanding This book is essential reading for anyone undertaking a physics degree but will also be of interest to engineers and chemists

Multipole Theory in Electromagnetism Roger E. Raab, Owen L. de Lange, 2004-10-14 This book provides an introduction to the classical quantum and symmetry aspects of multipole theory demonstrating the successes of the theory and also its unphysical aspects It presents a transformation theory which removes these unphysical properties The book will be of interest to physics students wishing to advance their knowledge of multipole theory and also a useful reference work for molecular and optical physicists theoretical chemists working on multipole effects solid state physicists studying the effects of electromagnetic fields on condensed matter engineers and applied mathematicians with interests in anisotropic materials An interesting recent development has been the increasing use of computer calculations in applications of multipole theory The book will assist computational physicists and chemists wishing to work in this area to acquire the necessary background in multipole theory

Theory of Electromagnetic Wave Propagation Charles Herach Papas, 1988-01-01 Interfacing physics and electrical engineering this graduate level text reveals the inherent simplicity of the basic ideas of electromagnetic wave propagation and antennas and their logical development from Maxwell field equations Topics include radiation from monochromatic sources in unbounded regions electromagnetic waves in a plasma medium Doppler effect much more 1965 edition

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Electromagnetism And Quantum Theory Introduction

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