# THE ELECTROMAGNETIC ORIGIN OF QUANTUM THEORY AND LIGHT

Dale M. Grimes & Craig A. Grimes

World Scientific

# **Electromagnetic Origin Of Quantum Theory Light**

Stanley Jeffers, S. Roy, J.P. Vigier, G. Hunter

### **Electromagnetic Origin Of Quantum Theory Light:**

The Electromagnetic Origin of Quantum Theory and Light Dale Mills Grimes, Craig A. Grimes, 2005 This book resolves fundamental questions of quantum theory and offers arguably the strongest evidence yet in support of string theory It is essential reading for everyone in physics physical mathematics and the philosophy of science The authors model electrons as an ensemble of strings subject to the laws of classical statistical mechanics This model shows the Schrodinger equation to be the low speed descriptor of equilibrium and near equilibrium states but not of quantum jumps Like other statistical systems the electron ensemble passes through all possible intrinsic states As a high energy eigenstate electron ensemble passes through an appropriate structure it regeneratively produces an encompassing standing energy field Regenerative field buildup enables the electron to be a radiative band pass filter it is an efficient radiator at the buildup frequency and phase but all other frequencies and phases are blocked When a matching external field trigger is applied depending upon therelative phasings the standing energy is either absorbed or emitted with full directivity

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 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 The Worldwide List of Alternative Theories and Critics Jean de Climont, 2020-11-01 This Worldwide List of atomic theory Alternative Theories and Critics only avalailable in english language includes scientists involved in scientific fields The 2023 issue of this directory includes the scientists found in the Internet The scientists of the directory are only those involved in physics natural philosophy The list includes 9700 names of scientists doctors or diplome engineers for more than 70% Their position is shortly presented together with their proposed alternative theory when applicable There are nearly 3500 authors of such theories all amazingly very different from one another The main categories of theories are presented in an other book of Jean de Climont THE ALTERNATIVE THEORIES The Historical Development of Quantum Theory Jagdish Mehra, Helmut Rechenberg, 2000-12-28 Quantum Theory together with the principles of special and general relativity

constitute a scientific revolution that has profoundly influenced the way in which we think about the universe and the fundamental forces that govern it The Historical Development of Quantum Theory is a definitive historical study of that scientific work and the human struggles that accompanied it from the beginning Drawing upon such materials as the resources of the Archives for the History of Quantum Physics the Niels Bohr Archives and the archives and scientific correspondence of the principal quantum physicists as well as Jagdish Mehra's personal discussions over many years with most of the architects of quantum theory the authors have written a rigorous scientific history of quantum theory in a deeply human context This multivolume work presents a rich account of an intellectual triumph a unique analysis of the creative scientific process The Historical Development of Quantum Theory is science history and biography all wrapped in the story of a great human enterprise Its lessons will be an aid to those working in the sciences and humanities alike Introduction to Classical Electrodynamics, Volume 1 Boucif Abdesselam, 2025-04-21 Introduction to Classical Electrodynamics 1 introduces the fundamentals of electromagnetic field theory This book begins with electrostatics focusing on the concepts of point charges electric fields electric potential and Gauss's theorem It then examines conductors influence phenomena and capacitors before exploring electrokinetics detailing the concepts of electric current circuits and resistance as well as Kirchhoff's laws Next this book analyzes the notion of magnetic field Lorentz and Laplace forces Biot Savart's law Amp re's theorem electric and magnetic moments and multipole developments Boundary problems for static potentials in vacuum are also studied The book is aimed at students of physics and mathematics as well as engineering students interested in electromagnetic theory providing an overview of electromagnetic theory with numerous practical applications

Introduction to Classical Electrodynamics, Volume 2 Boucif Abdesselam, 2025-08-29 Since Maxwell s time electromagnetic theory has made spectacular progress particularly in the field of waves Introduction to Classical Electrodynamics 2 presents the fundamental concepts of electromagnetic field theory This book first addresses static potentials with sources and provides a detailed presentation of the method of images and Green s functions It also analyzes electromagnetic induction phenomena and Maxwell s equations It examines electromagnetic waves in a vacuum and their properties as well as the concept of electromagnetic energy Finally it covers polarized and magnetized media along with electromagnetic fields and their propagation in material media This book is intended for physics and mathematics students as well as engineering students interested in the challenges of electromagnetic theory The discussion is supplemented with numerous applications derived from the theoretical concepts presented , The Present Status of the Quantum Theory of Light Stanley Jeffers, S. Roy, J.P. Vigier, 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 Vigier 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 Vigier's wishes but in fact encompassed many of the areas to which Professor Vigier 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 Vigier 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 Vigier at the symposium the current experimental situation now allows for the first time for individual quantum events to be studied e g Opticalman 3 & 2 United States. Naval Education and Training Command,1979

Opticalman 3 & 2 United States. Bureau of Naval Personnel, 1966 Theories and practical skills for use in optical shops are presented in this rate training manual prepared for regular navy and naval reserve personnel Light theories are analyzed in connection with mirrors prisms lenses and basic optical systems Following fundamentals of mechanical design and construction maintenance procedures are studied to give a general knowledge of optical repair Special descriptions are made of such instruments as spyglasses telescopes magnetic compasses azimuth and bearing circles sextants stadimeters telescopic alidades binoculars submarine periscopes and night vision sights To give enough background for readers operations of lathes grinders milling machines and drill presses are also discussed Besides illustrations for explanation purposes information on the opticalman rating structure is also provided The UNIFIED THEORY: A Complete Paradigm Shift in Physics and Cosmology Rati Ram Sharma, 2010-06-23 Unified Theory UT replaces Relativity Quantum Quark lepton Higgs Supersymmetry Electroweak String Big Bang theories Light wave propagates in all composing all pervading sharmon medium as a kinetic gas Sharmon comprises ve positrino ve negatrino UT has two elements positrino negatrino two charges mass electric two forces gravitational electromagnetic Mainstream has over 200 particles but none is element Cosmino mass is innate Higgs nonexistent UT explains bending of light due to gravity constancy invariance to source observer motion of light velocity c variability of c invalidating Relativity also wave quantum unity of light UT rejects length contraction time dilation uncertainty principle No fermion or neutron is neutral In UT s Non expanding Universe redshift is caused by non Doppler depletion of photon energy This book will revise textbooks of Physics Cosmology at all levels and may be translated Quantum Aspects of Light Propagation Antonín Lukš, Vlasta Perinová, 2009-08-29 Quantum into other languages Aspects of Light Propagation provides an overview of spatio temporal descriptions of the electromagnetic field in linear and nonlinear dielectric media appropriate to macroscopic and microscopic theories Readers will find an introduction to canonical quantum descriptions of light propagation in a nonlinear dispersionless dielectric medium and an approach to

linear and nonlinear dispersive dielectric media Illustrated by optical processes these descriptions are simplified by a transition to one dimensional propagation Quantum theories of light propagation in optical media are generalized from dielectric media to magnetodielectrics in addition to a presentation of classical and nonclassical properties of radiation propagating through negative index media Valuable analyses of quantization in waveguides photonic crystals and propagation in strongly scattering media are also included along with various optical resonator properties. The theories are utilized for the quantum electrodynamical effects to be determined in periodic dielectric structures which are known to be a basis of new schemes for lasing and a control of light field state Quantum Aspects of Light Propagation is a valuable reference for researchers and engineers involved with general optics quantum optics and electronics nonlinear optics and photonics Choosing Not Choosing Sharon Cameron, 1992 Although Emily Dickinson copied and bound her poems into manuscript notebooks in the century since her death her poems have been read as single lyrics with little or no regard for the context she created for them in her fascicles Choosing Not Choosing is the first book length consideration of the poems in their manuscript context Sharon Cameron demonstrates that to read the poems with attention to their placement in the fascicles is to observe scenes and subjects unfolding between and among poems rather than to think of them as isolated riddles enigmatic in both syntax and reference Thus Choosing Not Choosing illustrates that the contextual sense of Dickinson is not the canonical sense of Dickinson Considering the poems in the context of the fascicles Cameron argues that an essential refusal of choice pervades all aspects of Dickinson's poetry Because Dickinson never chose whether she wanted her poems read as single lyrics or in sequence nor is it clear where any fascicle text ends or even how in context a poem is bounded not choosing is a textual issue it is also a formal issue because Dickinson refused to chose among poetic variants it is a thematic issue and finally it is a philosophical one since what is produced by not choosing is a radical indifference to difference Extending the readings of Dickinson offered in her earlier book Lyric Time Cameron continues to enlarge our understanding of the work of this singular American poet Prebiotic Photochemistry Franz Saija, Giuseppe Cassone, 2021-06-09 Photochemistry is an important facet in the study of the origin of life and prebiotic chemistry Solar photons are the unique source of the large amounts of energy likely required to initiate the organisation of matter to produce biological life The Miller Urey experiment simulated the conditions thought to be present on the early earth and supported the hypothesis that under such conditions complex organic compounds could be synthesised from simpler inorganic precursors The experiment inspired many others including the production of various alcohols aldehydes and organic acids through UV photolysis of water vapour with carbon monoxide This book covers the photochemical aspects of the study of prebiotic and origin of life chemistry an ideal companion for postgraduates and researchers in prebiotic chemistry photochemistry photobiology chemical biology and astrochemistry **Applied Electro Optics** Louis Desmarais, 1997-12-05 A back to basics guide to opto electronic circuit design and construction To successfully build and optimize opto electronic

circuits you need to understand both the fundamentals of optics and electronics Applied Electro Optics provides engineers designers and technicians with a firm background in both optical physics and circuit design In Part I the book introduces the basic theory of opto electronics including Maxwell's equations and the wave nature of light Reflection and refraction with extensive coverage of Snell's Law Interference phenomena and the Fabry Perot interferometer Diffraction effects and diffraction gratings Polarization and electro optic modulation Photons basic quantum theory and spectroscopic techniques Then in Part II the book introduces each major element of an electro optic system Understand semiconductor light sources such as LEDs and diode lasers Consider optical transmitters and discover how to minimize the impact of electromagnetic interference through careful circuit location grounding and shielding Review the basic structure and operation of photodiodes phototransistors optocouplers and photoconductors Then learn practical techniques for managing the trade offs required to integrate these devices into useful circuits A full chapter on optical receivers demonstrates how to integrate photodetectors into useful receiver circuits both amplifier and hybrid circuits are covered Finally walk step by step through building and optimizing circuits for a variety of applications including CD players and infrared data transmission If your goal is to build the best possible opto electronic circuits or just to understand how they operate Applied Electro Optics delivers just the right balance of theory and practice to help you Quantum Mechanics Shabnam Siddiqui, 2018-10-10 Quantum mechanics is one of the most challenging subjects to learn It is challenging because quantum phenomenon is counterintuitive and the mathematics used to explain such a phenomenon is very abstract and difficult to grasp This textbook is an attempt to overcome these challenges Every chapter presents quantum ideas step by step in a structured way with a comparison between quantum and classical concepts It provides a clear distinction between classical and quantum logic Conceptual questions are provided after every important section so that the reader can test their understanding at every step Such an approach aids in preventing misconceptions Problem solving is not restricted to solving differential equations and integration But it requires to systematically and creatively analyze a problem to apply the new and powerful concepts for finding a solution and to understand the physical meaning of the solution The tutorials on special topics are an effort to teach problem solving by actively engaging the reader in a thinking process to apply the concepts and to understand the physical meaning of the solution The simulations are provided for some of the topics The simulations aid in the visualization of the quantum phenomenon and for meaningful understanding of the mathematics This approach may lead to development of quantum mechanical intuition as well as learning mathematical techniques for problem solving Most importantly the book is not flooded with numerous topics that makes the reader confused and distracted rather the most important topics are discussed at a deeper level The understanding of quantum mechanics is incomplete without understanding the early ideas and experiments that lead to the development of the quantum theory Thus the first two chapters of the book are dedicated to such topics The key features of this book are A simplified structured and step by step introduction to quantum mechanics The simplification is attained through use of two level system step by step discussion of important topics in a simplified language at a deeper level analogies and visualization using illustrations and simulations A systematic arrangement of topics and numerous worked out examples The presentation of the structure in the mathematical formalism of quantum mechanics provides clarity in understanding complicated and abstract mathematics It also helps to understand the distinction between the quantum mechanical and classical approaches Conceptual questions at the end of every important section The conceptual questions can be used in a classroom as a point of discussion between an instructor and students Tutorials on special topics Simulations on special topics aid in the visualization of the physical phenomenon and demonstration of the application of mathematics An in depth discussion of the wave particle duality measurement problem and their philosophical implications in Chapter 2 provides an understanding of the broader meaning of quantum mechanics The History of Physics Sheldon Cohen M.D F.A.C.P,2015-05-14 Physics is the science that deals with the properties and interrelationship of matter and energy It studies mechanics heat light sound electricity magnetism radiation and atomic structure This tale stretches from 2000 BCE to 1945 and introduces the reader to the brilliant men from Thales of Miletos to Albert Einstein who working alone or collaboratively made it all possible Introduction to Atomic and Nuclear Physics Henry Semat, 2012-12-06 to Atomic and Nuclear Physics Aerial view of the National Accelerator Laboratory Batavia Illinois Photograph courtesy of NAL Introduction to Atomic and Nuclear Physics HENRY SEMAT Professor Emeritus The City College of the City University of New York JOHN R ALBRIGHT The Florida State University FIFTH EDITION LONDON NEW YORK CHAPMAN AN D HALL First edition 1939 Fifth edition first published in the U S A by Holt Rinehart and Winston Inc Fifth edition first published in Great Britain 1973 by Chapman and Hall Ltd 11 New Fetter Lane London EC4P 4EE Reprinted as a paperback 1978 Reprinted 1979 1983 1985 1939 1946 1954 1962 by Henry Semat 1972 by Holt Rinehart and Winston Inc Fletcher Son Ltd Norwich ISBN 13 978 0 412 15670 0 e ISBN 13 978 1 4615 9701 8 DOI 10 1007 978 1 4615 9701 8 All rights reserved No part of this book may be reprinted or reproduced or utilized in any form or by any electronic mechanical or other means now known or hereafter invented including photocopying and recording or in any information storage and retrieval system without permission in Science Spirituality and Ontological Mysticism Lalan Prasad Singh, 2016-01-01 This book is writing from the Publisher the outcome of two decades of author's reflection over this subject Ontological mysticism is the basis for the philosophical and the scientific truth and reality Twenty first century is ushering in an era of spiritual renaissance There is a convergence of science and spirituality The relativity and quantum mechanics are coming closer to Vedantic and Buddhistic concept of truth and reality The book analyses and examines different philosophical and scientific concepts both from the transcendental and the relativistic perspective It has also introduced a new concept in the form of cosmic consciousness as the ultimate reality and the scientific and philosophical importance of subject or perceiver Subject or perceiver may be accepted as the fifth dimension The cosmic consciousness is the only reality that exists This book is full of paradoxes and

contradictions it is full of allegories and metaphors they are not truths but pointer to deeper and profound truth Sometimes nyths and metaphors fables and allegories speak out greater truth than truth itself as truth is mystical and metaphysical	

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