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Collective Electrodynamics: Quantum Foundations of Electromagnetism by Carver A. Mead. ISBN: 0262133784 | 158 pages | PDF | August 28, 2000 | English | 0.82 Mb. 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 ...

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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 ...

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Collective electrodynamics reveals, however, that quantities
that we usually think of as being very different are, in fact,
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manifestations of quantum phenomena. Mead views this as
a first step toward reformulating quantum concepts in a
clear and comprehensive manner." [END PUBLISHER'S
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Carver Mead offers a radically new approach to the standard problems of electromagnetic theory.

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collection of knowledge, the author unfolds to the readers his vivid experiences of enthusiasm, sheer pleasure, and yet frustrations in the course of his own research. In this way, the book aims to arouse the reader's curiosity in the strange behaviors of electrons in the microscopic world, which differ significantly from our common sense and daily experiences of the macroscopic world. The fields of physics explored in the book are quantum mechanics, superconductivity, electron microscopy, holography, magnetism, and unified theory — areas of the author's study using electron waves. A world-renowned expert in electron holography, the author promises the interested reader a fascinating ride through the quantum world of electron waves, accompanied by many colorful illustrations that delight the senses and captivate the imagination. Contents: Magnetic Lines of Force What are Waves? Interfering Electrons Electron Holography Coherent Electron Beams Developed! Wave-Particle Duality Interference Electron Microscopy Magnetic Lines of Force in the Microscopic World Aharonov-Bohm Effect Vector Potentials, Real or Not? Quantum World in Superconductors Readership: Undergraduates and researchers interested in applied physics, condensed matter physics, general physics, optics, materials science and engineering & electronics. keywords: Wave Particle Duality; Electron Interference; Aharonov-Bohm Effect; Vortex; Flux Pinning; Superconductor; Field-Emission Electron Lorentz Microscopy; Magnetic Lines of Force; Magnetic Domain Structure “ This beautifully produced and sensitively written volume takes us from the most elementary notions of waves to the most perplexing features of the quantum world in the most transparent prose imaginable. ” Ultramicroscopy

The field of atomic, molecular, and optical (AMO) science

underpins many technologies and continues to progress at an exciting pace for both scientific discoveries and technological innovations. AMO physics studies the fundamental building blocks of functioning matter to help advance the understanding of the universe. It is a foundational discipline within the physical sciences, relating to atoms and their constituents, to molecules, and to light at the quantum level. AMO physics combines fundamental research with practical application, coupling fundamental scientific discovery to rapidly evolving technological advances, innovation and commercialization. Due to the wide-reaching intellectual, societal, and economical impact of AMO, it is important to review recent advances and future opportunities in AMO physics. *Manipulating Quantum Systems: An Assessment of Atomic, Molecular, and Optical Physics in the United States* assesses opportunities in AMO science and technology over the coming decade. Key topics in this report include tools made of light; emerging phenomena from few- to many-body systems; the foundations of quantum information science and technologies; quantum dynamics in the time and frequency domains; precision and the nature of the universe, and the broader impact of AMO science.

During the course of this century, gauge invariance has slowly emerged from being an incidental symmetry of electromagnetism to being a fundamental geometrical principle underlying the four known fundamental physical interactions. The development has been in two stages. In the first stage (1916-1956) the geometrical significance of gauge-invariance gradually came to be appreciated and the original abelian gauge-invariance of electromagnetism was generalized to non-abelian gauge invariance. In the second stage (1960-1975) it was found that, contrary to first

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appearances, the non-abelian gauge-theories provided exactly the framework that was needed to describe the nuclear interactions (both weak and strong) and thus provided a universal framework for describing all known fundamental interactions. In this work, Lochlainn O'Raifeartaigh describes the former phase. O'Raifeartaigh first illustrates how gravitational theory and quantum mechanics played crucial roles in the reassessment of gauge theory as a geometric principle and as a framework for describing both electromagnetism and gravitation. He then describes how the abelian electromagnetic gauge-theory was generalized to its present non-abelian form. The development is illustrated by including a selection of relevant articles, many of them appearing here for the first time in English, notably by Weyl, Schrodinger, Klein, and London in the pre-war years, and by Pauli, Shaw, Yang-Mills, and Utiyama after the war. The articles illustrate that the reassessment of gauge-theory, due in a large measure to Weyl, constituted a major philosophical as well as technical advance.

Comprehensive introduction to quantum field theory by Nobel Laureate Steven Weinberg, now available in paperback.

Authored by an acclaimed teacher of quantum physics and philosophy, this textbook pays special attention to the aspects that many courses sweep under the carpet. Traditional courses in quantum mechanics teach students how to use the quantum formalism to make calculations. But even the best students - indeed, especially the best students - emerge rather confused about what, exactly, the theory says is going on, physically, in microscopic systems. This supplementary textbook is designed to help such

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students understand that they are not alone in their confusions (luminaries such as Albert Einstein, Erwin Schroedinger, and John Stewart Bell having shared them), to sharpen their understanding of the most important difficulties associated with interpreting quantum theory in a realistic manner, and to introduce them to the most promising attempts to formulate the theory in a way that is physically clear and coherent. The text is accessible to students with at least one semester of prior exposure to quantum (or "modern") physics and includes over a hundred engaging end-of-chapter "Projects" that make the book suitable for either a traditional classroom or for self-study.

This book shines bright light into the dim recesses of quantum theory, where the mysteries of entanglement, nonlocality, and wave collapse have motivated some to conjure up multiple universes, and others to adopt a "shut up and calculate" mentality. After an extensive and accessible introduction to quantum mechanics and its history, the author turns attention to his transactional model. Using a quantum handshake between normal and time-reversed waves, this model provides a clear visual picture explaining the baffling experimental results that flow daily from the quantum physics laboratories of the world. To demonstrate its powerful simplicity, the transactional model is applied to a collection of counter-intuitive experiments and conceptual problems.

This book is an introduction to the two closely related subjects of quantum optics and quantum information. The book gives a simple, self-contained introduction to both subjects, while illustrating the physical principles of quantum information processing using quantum optical systems. To make the book accessible to those with

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backgrounds other than physics, the authors also include a brief review of quantum mechanics. Furthermore, some aspects of quantum information, for example those pertaining to recent experiments on cavity QED and quantum dots, are described here for the first time in book form.

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