

Collective Electrodynamics: Quantum Foundations of Electromagnetism

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✓ Verified Book of Collective Electrodynamics: Quantum Foundations of Electromagnetism

Summary:

Collective Electrodynamics: Quantum Foundations of Electromagnetism download free ebooks pdf is brought to you by openbookmachine that special to you no cost. Collective Electrodynamics: Quantum Foundations of Electromagnetism free books download pdf created by Carver A. Mead at July 26th 2002 has been changed to PDF file that you can access on your laptop. For your info, openbookmachine do not save Collective Electrodynamics: Quantum Foundations of Electromagnetism free ebook pdf download on our website, all of book files on this site are safed via the syber media. We do not have responsibility with copywright of this book.

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.

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