



Quantum Electrodynamics (Monographs in Natural Philosophy)

Iwo Bialynicki-Birula, Zofia Bialynicka-Birula

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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.

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