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Fundamental Problems in Quantum Field Theory

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About the ebook

Quantum physics is based on four fundamental interactions of electromagnetic, weak, gravitational and strong forces. All the interactions are expressed in terms of fermion and boson fields which can describe the quantum states of electrons, nucleons and photons in atoms or nuclei. Correct behaviors of these particles can now be described by the basic field theory terminology, and this textbook explains, for the first time, quantum field theory in a unifying method.

Contents

- ▶ Maxwell and Dirac Equations
- ▶ S-Matrix Theory
- ▶ Quantum Electrodynamics
- ▶ Quantum Chromodynamics and Related Topics
- ▶ Weak Interactions
- ▶ Gravity
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