

Introduction to Elementary Particles

This is the first quantitative treatment of elementary particle theory that is accessible to undergraduates. Using a lively, informal writing style, the author strikes a balance between quantitative rigor and intuitive understanding. The first chapter provides a detailed historical introduction to the subject. Subsequent chapters offer a consistent and modern presentation, covering the quark model, Feynman diagrams, quantum electrodynamics, and gauge theories. A clear introduction to the Feynman rules, using a simple model, helps readers learn the calculational techniques without the complications of spin. And an accessible treatment of QED shows how to evaluate tree-level diagrams. Contains an abundance of worked examples and many end-of-chapter problems.

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Eine quantitative Behandlung der Theorie der Elementarteilchen, die auch Studenten unterer Semester verstehen! Lebendig, anschaulich und locker bewältigt der Text den Spagat zwischen theoretisch strenger Behandlung und intuitivem Verständnis. Nach einer historischen Einführung werden das Quark-Modell und Feynmann-Diagramme eingeführt, die Quantenelektrodynamik erläutert und Eichfelder vorgestellt. Mit sehr vielen durchgearbeiteten Beispielen und Übungsaufgaben an den Kapitelenden.

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