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Quantum Field Theory a Modern Introduction

The standard text that underlies the ideas and techniques of quantum field theory, both from experimental and theoretical physics, while the third part provides an introduction to quantum field theory, presents various renormalization methods, and discusses the questions of renormalization group flows. Further, it presents a detailed account of the Standard Model of particle physics, together with its quantum field theory formulation, and a brief introduction to string theory. To this end, the book includes a study of the Wess-Zumino-Witten model, the principal nonabelian gauge theory of modern field theory, and a detailed account of the renormalization group and the renormalization group of the Standard Model. The book concludes by introducing the standard model of particle physics, which is based on the theory of gauge interactions.

The Quantum Theory of Fields: Volume 3, Quantum Field Theory

This volume contains the invited lectures of a school on modern quantum field theory held at Alushta, USSR, in May 1989. The development of this subject, which is of utmost significance in the study of quantum field theory, is based on the renormalization group and the renormalization group of the Standard Model. The book concludes by introducing the standard model of particle physics, which is based on the theory of gauge interactions.

The Quantum Theory of Fields: Volume 2, Modern Applications

This volume is dedicated to the memory of Professor J. J. Sakurai, who was a leading figure in the field of quantum field theory. It is an exciting and authoritative text, presenting a comprehensive account of the quantum field theory of the standard model, and a detailed account of the renormalization group and the renormalization group of the Standard Model. The book concludes by introducing the standard model of particle physics, which is based on the theory of gauge interactions.

The Quantum Theory of Fields: Volume 1, Fundamental Aspects of Quantum Field Theory

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The Quantum Theory of Fields: A Modern Introduction

This book presents the theoretical framework of quantum field theory at a very elementary level, giving an outline of the formalism and the main ideas involved in the construction of quantum field theory. The book is divided into two parts: the first part focuses on the foundations of quantum field theory, while the second part covers the applications of the theory to various physical systems. The book concludes by introducing the standard model of particle physics, which is based on the theory of gauge interactions.

Quantum Field Theory: A Modern Introduction

This book is a modern introduction to the ideas and techniques of quantum field theory. After a brief overview of particle physics and a survey of relativistic wave equations and Lagrangian field theory, the book goes on to discuss the foundations of quantum field theory, including the principles of quantum mechanics and the concepts of quantum electrodynamics. The book concludes by introducing the standard model of particle physics, which is based on the theory of gauge interactions.

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The third part introduces string theory and the analysis of the spectra of the mass (squared) operator associated with the oscillating strings. The properties of the underlying fields, associated with massless particles, encountered in string theory are studied in some detail. Elements of compactification, duality and D-branes are given, as well as the generation of vertices and interactions of strings. In the final sections, the author shows how to recover GR and the Yang-Mills field theory from string theory.

The book provides a step-by-step construction of the framework of relativistic quantum field theory, starting from a minimal set of basic foundational postulates. The approach is as a careful and detailed description of the conceptual subtleties of quantum field theory, many of which are glossed over in other texts.

Recent Developments in Quantum Field Theory 1. Introduction 2.1 Theoretical physicists discuss the present status and in particular, the latest developments in quantum field theory. In their broadest aspects, this volume contains the main lectures presented at the symposium and reflects the contemporary status of a line of development, one of whose initiators was Niels Bohr.

Quantum Field Theory in Condensed Matter Physics

The book is a course in modern quantum field theory as seen through the eyes of a theoretician working in condensed matter physics. It contains a gentle introduction to the subject and develops the tools needed for graduate students. The introductory parts include a description of the path integral representation, Feynman diagrams and elements of the theory of strongly correlated systems. The book contains a thorough exposition of both perturbative techniques and non-perturbative methods.

Introduction to Quantum Field Theory

This book introduces quantum field theory, together with its most important applications to cosmology and astroparticle physics, in a coherent framework. The path integral approach is employed right from the start, and the use of Feynman graphs and generating functional is illustrated first in quantum mechanics and then in scalar field theory. Various quantum fields are described, including scalar and fermionic fields, Abelian vector fields and quantum Electrodynamics (QED), and finally non-Abelian vector fields and Quantum Chromodynamics (QCD). Applications in scattering cross sections in QED and QCD are also described.

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Quantum Field Theory

The book takes a pedagogical approach to explaining quantum gravity, supersymmetry and string theory in a coherent way. It is aimed at graduate students and researchers in quantum field theory and high energy physics. The first part of the book introduces quantum gravity, without requiring previous knowledge of general relativity (GR). The necessary geometrical concepts are developed along with methods to calculate general Lagrangians for gravity, including that of general relativity. The quantum aspect of gravitation, as described by the geometry, is introduced and perturbative quantum GR is discussed. The Schwinger-Dyson formalism is developed to construct the non-perturbative contributions to the theory and renormalizability aspects of the perturbation theory are also discussed. The following sections introduce the very basic structure of a non-perturbative formulation of quantum gravity, illustrated by the construction of the Polyakov formulation of Yang-Mills field theory, and the standard model is worked out. Supersymmetry, one-loop quantum corrections to the standard model, renormalizability and the construction of supersymmetric versions of Yang-Mills field theory, and its role in the hierarchy problem are examined. The applications of the formalism are illustrated in supersymmetric versions of the standard model, including coupled supergravity and superstring theories.

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