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This self-contained text describes breakthroughs in our understanding of the structure and interactions of elementary particles. It provides students of theoretical or experimental physics with the background material to grasp the significance of these developments.

· A Preview of Particle Physics · Symmetries and Quarks · Antiparticles · Electrodynamics of Spinless Particles · The Dirac Equation · Electrodynamics of Spin-1/2 Particles · Loops, Renormalization, Running Coupling Constants, and All That · The Structure of Hadrons · Partons · Quantum Chromodynamics · Annihilation and QCD · Weak Interactions · Electroweak Interactions · Gauge Symmetries · The Weinberg-Salam Model and Beyond

Aimed at helping the physics student to develop a solid grasp of basic graduate-level material, this book presents worked solutions to a wide range of informative problems. These problems have been culled from the preliminary and general examinations created by the physics department at Princeton University for its graduate program. The authors, all students who have successfully completed the examinations, selected these problems on the basis of usefulness, interest, and originality, and have provided highly detailed solutions to each one. Their book will be a valuable resource not only to other students but to college physics teachers as well. The first four chapters pose problems in the areas of mechanics, electricity and magnetism, quantum mechanics, and thermodynamics and statistical mechanics, thereby serving as a review of material typically covered in undergraduate courses. Later chapters deal with material new to most first-year graduate students, challenging them on such topics as condensed matter, relativity and astrophysics, nuclear physics, elementary particles, and atomic and general physics.

Acquaints readers with the main concepts and literature of elementary particle physics and quantum field theory. In particular, the book is concerned with the elaboration of gauge field theories in nuclear physics; the possibility of creating fundamental new states of matter such as an extended quark-gluon plasma in ultra-relativistic heavy ion collisions; and the relation of gauge theories to the creation and evolution of the universe. Divided into three parts, it opens with an introduction to the general principles of relativistic quantum field theory followed by the essential ingredients of gauge fields for weak and electromagnetic interactions, quantum chromodynamics and strong interactions. The third part is concerned with the interface between modern elementary particle physics and "applied disciplines" such as nuclear physics, astrophysics and cosmology. Includes references and numerous exercises.

Unique in its coverage of all aspects of modern particle physics, this textbook provides a clear connection between the theory and recent experimental results, including the discovery of the Higgs boson at CERN. It provides a comprehensive and self-contained description of the Standard Model of particle physics suitable for upper-level undergraduate students and graduate students studying experimental particle physics. Physical theory is introduced in a straightforward manner with full mathematical derivations throughout. Fully-worked examples enable students to link the mathematical theory to results from modern particle physics experiments. End-of-chapter exercises, graded by difficulty, provide students with a deeper understanding of the subject. Online resources available at [www.cambridge.org/MPP](http://www.cambridge.org/MPP) feature password-protected fully-worked solutions to problems for instructors, numerical solutions and hints to the problems for students and PowerPoint slides and JPEGs of figures from the book.

Die Elementarteilchenphysik ist auf der ganzen Welt ein fester Bestandteil im Curriculum des Physikstudiums. Umso wichtiger ist es daher, dass auf diesem Gebiet bereits in den ersten Semestern ein solides Wissensfundament gelegt wird - nicht zuletzt als Vorbereitung auf die Themenbereiche Hochenergie- oder Kernphysik. In diesen Band ist die gesamte Lehrerfahrung von David Griffiths eingeflossen - eine begehrte "Ware", die in der Neuauflage nun auch ein Lösungsmaterial enthält, das die zahlreichen Aufgaben und Fragen der Kapitelenden aufnimmt. Der Autor versteht es, sich den Themen in einer lebendigen Sprache zu nähern, die jedoch im Hinblick auf Präzision keine

Kompromisse eingeht. So eröffnet der Band den Zugang zu den Theorien ebenso wie zu Modellen und Rechenoperationen. Das Werk wird von vielen Lehrenden empfohlen und kann bereits jetzt als Klassiker innerhalb der einführenden Werke zur Elementarteilchenphysik bezeichnet werden.

In 438 alphabetically-arranged essays, this work provides a useful overview of the core mathematical background for nonlinear science, as well as its applications to key problems in ecology and biological systems, chemical reaction-diffusion problems, geophysics, economics, electrical and mechanical oscillations in engineering systems, lasers and nonlinear optics, fluid mechanics and turbulence, and condensed matter physics, among others.

This highly-regarded text provides a comprehensive introduction to modern particle physics. Extensively rewritten and updated, this 4th edition includes developments in elementary particle physics, as well as its connections with cosmology and astrophysics. As in previous editions, the balance between experiment and theory is continually emphasised. The stress is on the phenomenological approach and basic theoretical concepts rather than rigorous mathematical detail. Short descriptions are given of some of the key experiments in the field, and how they have influenced our thinking. Although most of the material is presented in the context of the Standard Model of quarks and leptons, the shortcomings of this model and new physics beyond its compass (such as supersymmetry, neutrino mass and oscillations, GUTs and superstrings) are also discussed. The text includes many problems and a detailed and annotated further reading list.

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