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The book provides a comprehensive account of particle physics linking various aspects of particle physics in a coherent manner. This self-contained book not only cover basic concepts and recent developments but also overlaps between Astrophysics, Cosmology and Particle Physics, known as astroparticle physics. Several appendices are included to make the book self-contained.

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The fourth edition of this well-established, highly regarded two-volume set continues to provide a fundamental introduction to advanced particle physics while incorporating substantial new experimental results, especially in the areas of CP violation and neutrino oscillations. It offers an accessible and practical introduction to the three gauge theories included in the Standard Model of particle physics: quantum electrodynamics (QED), quantum chromodynamics (QCD), and the Glashow-Salam-Weinberg (GSW) electroweak theory. In the first volume, a new chapter on Lorentz transformations and discrete symmetries presents a simple treatment of Lorentz transformations of Dirac spinors. Along with updating experimental results, this edition also introduces Majorana fermions at an early stage, making the material suitable for a first course in relativistic quantum mechanics. Covering much of the experimental progress made in the last ten years, the second volume remains focused on the two non-Abelian quantum gauge field theories of the Standard Model: QCD and the GSW electroweak theory. A new chapter on CP violation and oscillation phenomena describes CP violation in B-meson decays as well as the main experiments that have led to our current knowledge of mass-squared differences and mixing angles for neutrinos. Exploring a new era in particle physics, this edition discusses the exciting discovery of a boson with properties consistent with those of the Standard Model Higgs boson. It also updates many other topics, including jet algorithms, lattice QCD, effective Lagrangians, and three-generation quark mixing and the CKM matrix. This revised and updated edition provides a self-contained pedagogical treatment of the subject, from relativistic quantum mechanics to the frontiers of the Standard Model. For each theory, the authors discuss the main conceptual points, detail many practical calculations of physical quantities from first principles, and compare these quantitative predictions with experimental results, helping readers improve both their calculation skills and physical insight.

Part 2 of Statistical physics begins with an extensive discussion of the theory of quantum liquids, which was dealt with briefly in the second edition of Statistical physics, by Lev Landau and E.M. Lifshitz; part 1 of Statistical physics is now the third edition of volume 5 of the Course of theoretical physics, by L.D. Landau and E.M. Lifshitz.

This two-volume set provides an accessible, practical, and comprehensive introduction to the three gauge theories of the standard model of particle physics: quantum electrodynamics (QED), quantum chromodynamics (QCD), and the electroweak theory. For each of them, the authors provide a thorough discussion of the main conceptual points, a detailed exposition of many practical calculations of physical quantities, and a comparison of these quantitative predictions with experimental results. For this third edition, much has been rewritten to reflect developments over the last decade, both in the curricula of university courses and in particle physics research. On the one hand, substantial new material has been introduced that is intended for use in undergraduate physics courses. New introductory chapters provide a precise historical account of the properties of quarks and leptons and a qualitative overview of the quantum field description of their interactions, at a level appropriate to third year courses. The chapter on relativistic quantum mechanics has been enlarged and is supplemented by additional sections on scattering theory and Green functions, in a form appropriate to fourth-year courses. On the other hand, since precision experiments now test the theories beyond lowest order in perturbation theory, an understanding of the data requires a more sophisticated knowledge of quantum field theory, including ideas of renormalization. The treatment of quantum field theory has therefore been considerably extended to provide a uniquely accessible and self-contained introduction to quantum field dynamics as described by Feynman graphs. The level is suitable for advanced fourth-year undergraduates and first-year graduates. These developments are all contained in the first volume, which ends with a discussion of higher order corrections in QED. The second volume is devoted to the non-Abelian gauge theories of QCD and the electroweak theory. As in the first two editions, emphasis is placed throughout on developing realistic calculations from a secure physical and conceptual basis.

This ultimate study guide with in-depth GCSE course coverage is all you need for exam success. Revise GCSE Physics has everything you need to achieve the GCSE grade you want. It is written by GCSE examiners to boost learning and focus revision.

Quantum Mechanics for Applied Physics and Engineering is devoted to the use of quantum mechanics in applied physics and engineering. Topics covered include elementary quantum theory, quantum statistics and many-particle systems, and energy bands in crystals. Approximation techniques for the Schrödinger equation are also described. Comprised of seven chapters, this book opens with an overview of basic quantum mechanics and includes a discussion on wave-particle duality, probability current density, and periodic boundary conditions. Quantum statistics is then considered as a prelude to the free-electron theory of metals, along with the use of perturbation theory to evaluate modifications in free-electron theory. The following chapters explore the use of WKB approximation to deduce the transmission coefficient for electron tunneling in solids; the theory of electronic energy bands; and the application of the Schrödinger equation to the problem of the periodic potential of a crystalline solid. Examples from solid-state physics are employed to illustrate specific applications and to demonstrate the principal results that can be deduced by means of quantum theory. This monograph is written primarily for engineers and applied physicists.

Looking for the real state of play in computational many-particle physics? Look no further. This book presents an overview of state-of-the-art numerical methods for studying interacting classical and quantum many-particle systems. A broad range of techniques and algorithms are covered, and emphasis is placed on their implementation on modern high-performance computers. This excellent book comes complete with online files and updates allowing readers to stay right up to date.