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a unified grand tour of theoretical physics invites its readers to a guided exploration of the theoretical ideas that shape our contemporary understanding of the physical world at the fundamental level its central themes comprising space time geometry and the general relativistic account of gravity quantum field theory and the gauge

theories of fundamental forces and statistical mechanics and the theory of phase transitions are developed in explicit mathematical detail with an emphasis on conceptual understanding straightforward treatments of the standard models of particle physics and cosmology are supplemented with introductory accounts of more speculative theories including supersymmetry and string theory this third edition of the tour includes a new chapter on quantum gravity focusing on the approach known as loop quantum gravity while new sections provide extended discussions of topics that have become prominent in recent years such as the higgs boson massive neutrinos cosmological perturbations dark energy and matter and the thermodynamics of black holes designed for those in search of a solid grasp of the inner workings of these theories but who prefer to avoid a full scale assault on the research literature the tour assumes as its point of departure a familiarity with basic undergraduate level physics and emphasizes the interconnections between aspects of physics that are more often treated in isolation the companion website at unifiedgrandtours.org provides further resources including a comprehensive manual of solutions to the end of chapter exercises

written to provide students who have limited backgrounds in the physical sciences and math with an accessible textbook on nuclear science this edition continues to provide a clear and complete introduction to nuclear chemistry and physics from basic concepts to nuclear power and medical applications incorporating suggestions from adopting professors the discussion of neutron cross sections is expanded coverage of the nuclear fuel cycle is now included and international terms are incorporated this updated expanded edition provides a much needed textbook and resource for undergraduate students in science and engineering as well as those studying nuclear medicine and radiation therapy

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

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this book provides a broad introduction to gauge field theories formulated on a space time lattice and in particular of qcd it serves as a textbook for advanced graduate students and also provides the reader with the necessary analytical and numerical techniques to carry out research on his own although the analytic calculations are sometimes quite demanding and go beyond an introduction they are discussed in sufficient detail so that the reader can fill in the missing steps the book also introduces the reader to interesting problems which are currently under intensive investigation whenever possible the main ideas are exemplified in simple models before extending them to realistic theories special emphasis is placed on numerical results obtained from pioneering work these are displayed in numerous figures

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praise for the previous edition presents a great deal of very useful information in a concise and entertaining way a wonderful addition to a science classroom library or

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