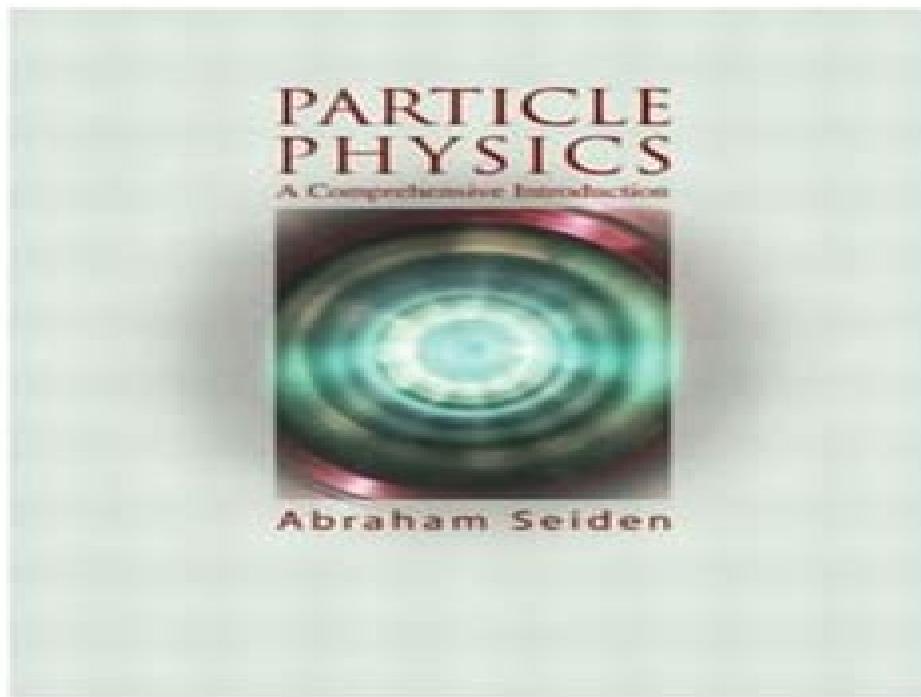


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Introduction to Nuclear and Particle Physics V. K. Mittal,2011 **Nuclear and Particle Physics** Brian R. Martin,Graham Shaw,2019-04-15 Updated and expanded edition of this well known Physics textbook provides an excellent Undergraduate introduction to the field This new edition of Nuclear and Particle Physics continues the standards established by its predecessors offering a comprehensive and highly readable overview of both the theoretical and experimental areas of these fields The updated and expanded text covers a very wide range of topics in particle and nuclear physics with an emphasis on the phenomenological approach to understanding experimental data It is one of the few publications currently available that gives equal treatment to both fields while remaining accessible to undergraduates Early chapters cover basic concepts of nuclear and particle physics before describing their respective phenomenologies and experimental methods Later chapters interpret data through models and theories such as the standard model of particle physics and the liquid drop and shell

models of nuclear physics and also discuss many applications of both fields The concluding two chapters deal with practical applications and outstanding issues including extensions to the standard model implications for particle astrophysics improvements in medical imaging and prospects for power production There are a number of useful appendices Other notable features include New or expanded coverage of developments in relevant fields such as the discovery of the Higgs boson recent results in neutrino physics research to test theories beyond the standard model such as supersymmetry and important technical advances such as Penning traps used for high precision measurements of nuclear masses Practice problems at the end of chapters excluding the last chapter with solutions to selected problems provided in an appendix as well as an extensive list of references for further reading Companion website with solutions odd numbered problems for students all problems for instructors PowerPoint lecture slides and other resources As with previous editions the balanced coverage and additional resources provided makes Nuclear and Particle Physics an excellent foundation for advanced undergraduate courses or a valuable general reference text for early graduate studies **INTRODUCTION TO NUCLEAR AND PARTICLE PHYSICS, FOURTH EDITION** MITTAL, V. K.,VERMA, R. C.,GUPTA, S. C.,2018-09-01 This thoroughly revised book now in its Fourth Edition continues to provide a comprehensive introduction to this increasingly important area of nuclear and particle physics It combines coverage of basic concepts principles and applications along with the latest developments Beginning with the historical developments of the subject properties and constituents of the nucleus quantitative facts about nucleus etc the book moves on to give insights into nuclear models phenomenon of radioactivity and its applications in various fields nuclear reactions including reactions in the Sun and stars photoelectric and Compton effects pair creation different particle accelerators and radiation detectors **UNIQUE FEATURES** Contains actual experimental data Large number of solved problems to help students comprehend the concepts with ease Provides unsolved problems with answers and review questions to test the students comprehension of the subject **NEW TO THE FOURTH EDITION** Some sections have been revised and enlarged to enhance their comprehension such as the neutron activation analysis scintillation and HPGe detectors Includes a list of accelerators Provides several new solved and unsolved problems **TARGET AUDIENCE** B Sc M Sc Physics **Gauge Theories of the Strong, Weak, and Electromagnetic Interactions** Chris Quigg,2013-09-23 A thoroughly revised edition of a landmark textbook on gauge theories and their applications to particle physics This completely revised and updated graduate level textbook is an ideal introduction to gauge theories and their applications to high energy particle physics and takes an in depth look at two new laws of nature quantum chromodynamics and the electroweak theory From quantum electrodynamics through unified theories of the interactions among leptons and quarks Chris Quigg examines the logic and structure behind gauge theories and the experimental underpinnings of today s theories Quigg emphasizes how we know what we know and in the era of the Large Hadron Collider his insightful survey of the standard model and the next great questions for particle physics makes for compelling reading The brand new edition shows

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Detectors in Particle Physics Georg Viehauser, Tony Weidberg, 2024 This textbook provides an accessible yet comprehensive introduction to particle detectors It emphasises the core physics principles enabling a deeper understanding of the subject for further and more advanced studies Case studies of the various applications of particle detectors are provided particularly across medical physics The primary audience is graduate students in particle or nuclear physics in addition to advanced undergraduate students in physics Particle detectors have a very broad range of applications so this will also be a useful guide for more experienced particle physics researchers in software and analysis who wish to gain a good understanding of detector physics Particle detectors are widely used outside of particle physics such as astrophysicists using particle detectors on satellite missions making this a valuable reference for interdisciplinary readers

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