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A comprehensive, unified treatment of present-day nuclear physics-the fresh edition of a classic text/reference. "A fine and thoroughly up-to-date textbook on nuclear physics . . . most welcome." -Physics Today (on the First Edition). What sets Introductory Nuclear Physics apart from other books on the subject is its presentation of nuclear physics as an integral part of modern physics. Placing the discipline within a broad historical and scientific context, it makes important connections to other fields such as elementary particle physics and astrophysics. Now fully revised and updated, this Second Edition explores the changing directions in nuclear physics, emphasizing new developments and current research-from superdeformation to quark-gluon plasma. Author Samuel S.M. Wong preserves those areas that established the First Edition as a standard text in university physics departments, focusing on what is exciting about the discipline and providing a concise, thorough, and accessible treatment of the fundamental aspects of nuclear properties. In this new edition, Professor Wong:

- * Includes a chapter on heavy-ion reactions-from high-spin states to quark-gluon plasma
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Introductory

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Nuclear Physics, Second Edition is an ideal text for courses in nuclear physics at the senior undergraduate or first-year graduate level. It is also an important resource for scientists and engineers working with nuclei, for astrophysicists and particle physicists, and for anyone wishing to learn more about trends in the field.

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.

Nuclear physics is the study of the nuclei of atoms and their interactions. This textbook is a comprehensive, balanced, and up to date introduction to the subject. It describes both the experiments made to study nuclear reactions and nuclear structure, and the theories and models that have been developed to understand the properties of nuclei and their interactions. Introductory nuclear physics will serve

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both as a textbook for undergraduates and graduates, and as a useful reference work for professional nuclear physicists.

Numerical methods are playing an ever-increasing role in physics and engineering. This is especially true after the recent explosion of computing power on the desk-top. This book is aimed at helping the user to make intelligent use of this power tool. Each method is introduced through realistic examples and actual computer programs. The explanations provide the background for making a choice between similar approaches and the knowledge to explore the network for the appropriate existing codes. Tedious proofs and derivations, on the other hand, are delegated to references. Examples of unconventional methods are also given to stimulate readers in exploring new ways of solving problems. Errata(s) Appendix B, Page 485 “ <http://www.wspc.com.sg/others/software/3365/ftp.wspc.com.sg/pub/software/3365/> ” The above links should be replaced with “ www.worldscientific.com/doi/suppl/10.1142/3365/suppl_file/3365_software_free.zip ”

Market_Desc: This text is aimed at undergraduates in science and engineering who require knowledge of the fundamental principles of nuclear physics and its applications. Special Features: The book offers numerous practical examples and problems to enhance the material. It avoids complex and extensive mathematical treatments. It covers the basic theory but emphasizes the applications About The Book: This title provides the latest information on applications of Nuclear Physics. Written from an experimental point of view this text is broadly divided into

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two parts, firstly a general introduction to Nuclear Physics and secondly its applications. The book also includes chapters on practical examples and problems. It also contains hints to solving problems which are included in the appendix.

Designed to prepare candidates for the American Board of Health Physics Comprehensive examination (Part I) and other certification examinations, this monograph introduces professionals in the field to radiation protection principles and their practical application in routine and emergency situations. It features more than 650 worked examples illustrating concepts under discussion along with in-depth coverage of sources of radiation, standards and regulations, biological effects of ionizing radiation, instrumentation, external and internal dosimetry, counting statistics, monitoring and interpretations, operational health physics, transportation and waste, nuclear emergencies, and more. Reflecting for the first time the true scope of health physics at an introductory level, *Basic Health Physics: Problems and Solutions* gives readers the tools to properly evaluate challenging situations in all areas of radiation protection, including the medical, university, power reactor, fuel cycle, research reactor, environmental, non-ionizing radiation, and accelerator health physics.

Written primarily for researchers and graduate students who are new in this emerging field, this book develops the necessary tools so that readers can follow the latest advances in this subject. Readers are first guided to examine the basic information on nucleon–nucleon collisions and the use of the nucleus as an arena to study the interaction of one nucleon with another. A good survey of the relation between nucleon–nucleon and nucleus–nucleus collisions

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provides the proper comparison to study phenomena involving the more exotic quark-gluon plasma. Properties of the quark-gluon plasma and signatures for its detection are discussed to aid future searches and exploration for this exotic matter. Recent experimental findings are summarised. Contents: Introduction Kinematic

Variables Nucleon–Nucleon Collisions Hard Processes in Nucleon–Nucleon Collisions Particle Production in a Strong Field Particle Production in Two-Dimensional Quantum Electrodynamics Classical String Model Dual Parton Model Quarks, Gluons, and Quark–Gluon Plasma Lattice Gauge Theory Results from Lattice Gauge Theory Nucleus–Nucleus Collisions High-Energy Heavy-Ion Collisions and Quark-Gluon Plasma Signatures for the Quark–Gluon Plasma (I – V) Summary Index Readership: Nuclear physicists. Keywords: High-Energy; Heavy-Ion; High-Energy Heavy-Ion Collisions; Quark-Gluon Plasma; Relativistic Heavy-Ion Collisions; High-Energy Nuclear Collisions Review: “ The book is very well written and I can recommend it to all graduate students and researchers interested in the field of RHICs. ” Journal of Physics G: Nuclear and Particle Physics

Written by established experts in the field, this book features in-depth discussions of proven scientific principles, current trends, and applications of nuclear chemistry to the sciences and engineering. • Provides up-to-date coverage of the latest research and examines the theoretical and practical aspects of nuclear and radiochemistry • Presents the basic physical principles of nuclear and radiochemistry in a succinct fashion, requiring no basic knowledge of quantum mechanics • Adds discussion of math tools and simulations to demonstrate various phenomena, new chapters on Nuclear Medicine, Nuclear Forensics and Particle Physics, and updates to all other chapters •

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Includes additional in-chapter sample problems with solutions to help students • Reviews of 1st edition: "... an authoritative, comprehensive but succinct, state-of-the-art textbook" (The Chemical Educator) and "...an excellent resource for libraries and laboratories supporting programs requiring familiarity with nuclear processes ..." (CHOICE)

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