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One of the field's most respected introductory texts, Modern Physics provides a deep exploration of  
fundamental theory and experimentation. Appropriate for second-year undergraduate science and  
engineering students, this esteemed text presents a comprehensive introduction to the concepts and  
methods that form the basis of modern physics, including examinations of relativity, quantum physics,  
statistical physics, nuclear physics, high energy physics, astrophysics, and cosmology. A balanced  
pedagogical approach examines major concepts first from a historical perspective, then through a modern  
lens using relevant experimental evidence and discussion of recent developments in the field. The emphasis  
on the interrelationship of principles and methods provides continuity, creating an accessible "storyline" for  
students to follow. Extensive pedagogical tools aid in comprehension, encouraging students to think  
critically and strengthen their ability to apply conceptual knowledge to practical applications. Numerous  
exercises and worked examples reinforce fundamental principles. This clear and concise introduction to  
nuclear physics provides an excellent basis for a core undergraduate course in this area. The book opens by  
setting nuclear physics in the context of elementary particle physics and then shows how simple models can  
provide an understanding of the properties of nuclei, both in their ground states and excited states, and  
also of the nature of nuclear reactions. The book also includes chapters on nuclear fission, its application in  
nuclear power reactors, the role of nuclear physics in energy production and nucleosynthesis in stars. This  
second edition contains several additional topics: muon-catalysed fusion, the nuclear and neutrino physics  
of supernovae, neutrino mass and neutrino oscillations, and the biological effects of radiation. A knowledge  
of basic quantum mechanics and special relativity is assumed. Appendices deal with other more specialized  
topics. Each chapter ends with a set of problems for which outline solutions are provided. Healthcare  
providers, consumers, researchers and policy makers are inundated with unmanageable amounts of  
information, including evidence from healthcare research. It has become impossible for all to have the time  
and resources to find, appraise and interpret this evidence and incorporate it into healthcare decisions.  
Cochrane Reviews respond to this challenge by identifying, appraising and synthesizing research-based  
evidence and presenting it in a standardized format, published in The Cochrane Library  
(www.thecochranelibrary.com). The Cochrane Handbook for Systematic Reviews of Interventions contains  
methodological guidance for the preparation and maintenance of Cochrane intervention reviews. Written in  
a clear and accessible format, it is the essential manual for all those preparing, maintaining and reading  
Cochrane reviews. Many of the principles and methods described here are appropriate for systematic  
reviews applied to other types of research and to systematic reviews of interventions undertaken by others.  
It is hoped therefore that this book will be invaluable to all those who want to understand the role of  
systematic reviews, critically appraise published reviews or perform reviews themselves. The publication of  
the first edition of Physics in 1960 launched the modern era of physics textbooks. It was a new paradigm  
then and, after 40 years, it continues to be the dominant model for all texts. The big change in the market  
has been a shift to a lower level, more accessible version of the model. Fundamentals of Physics is a good  
example of this shift. In spite of this change, there continues to be a demand for the original version and,  
indeed, we are seeing a renewed interest in Physics as demographic changes have led to greater numbers  
of well-prepared students entering university. Physics is the only book available for academics looking to  
teach a more demanding course. This open access textbook takes the reader step-by-step through the  
concepts of mechanics in a clear and detailed manner. Mechanics is considered to be the core of physics,

where a deep understanding of the concepts is essential in understanding all branches of physics. Many proofs and examples are included to help the reader grasp the fundamentals fully, paving the way to deal with more advanced topics. After solving all of the examples, the reader will have gained a solid foundation in mechanics and the skills to apply the concepts in a variety of situations. The book is useful for undergraduate students majoring in physics and other science and engineering disciplines. It can also be used as a reference for more advanced levels. Bring Modern Physics to Life with a Realistic Software Simulation! Enhance the thorough coverage of Krane's Modern Physics 2e with hands-on, real-world experience! Modern Physics Simulations, developed by the Consortium for Upper-Level Physics Software (CUPS), offers complex, realistic calculations of models of various physical systems. Like all of the CUPS simulations, it is remarkably easy to use, yet sophisticated enough for explorations of new ideas. Important Features Include: \* Powerful simulations covering Historic Experiments in Electron Diffraction, Laser Cavities & Dynamics, Classical Scattering, Nuclear Properties & Decays, Special Relativity, Quantum Mechanics, and the Hydrogen Atom & the H<sub>2</sub><sup>+</sup> Molecule. \* Pascal source code for all programs and a number of exercises suggesting specific ways the programs can be modified. \* Graphical (often animated) displays in most simulations. The entire CUPS simulation series consists of nine books/software simulations which cover Astrophysics, Electricity and Magnetism, Classical Mechanics, Modern Physics, Quantum Mechanics, Nuclear and Particle Physics, Solid State Physics, Thermal and Statistical Physics, and Waves and Optics. Co-authored by a biologist and computer scientist, this book is designed to make bioinformatics useful to undergraduates and prepare them for more advanced work. It covers problems at the end of each chapter, which use real data to help students apply what they have learned from both a statistical and biological point of view. Modern Physics, Second Edition provides a clear, precise, and contemporary introduction to the theory, experiment, and applications of modern physics. Ideal for both physics majors and engineers, this eagerly awaited second edition puts the modern back into modern physics courses. Pedagogical features throughout the text focus the reader on the core concepts and theories while offering optional, more advanced sections, examples, and cutting-edge applications to suit a variety of students and courses. Critically acclaimed for his lucid style, in the second edition, Randy Harris applies the same insights into recent developments in physics, engineering, and technology. "We need a new way of seeing!" --Jennifer Ferguson, South African musician & Former MP, African National Congress Is abortion on "demand" a woman's right, or a wrong inflicted on women? Is it a mark of liberation, or a sign that women are not yet free? From Anglo-Irish writer Mary Wollstonecraft to Kenyan environmentalist and 2004 Nobel Peace Prize laureate Wangari Maathai, many eighteenth- through twenty-first-century feminists have opposed it as violence against fetal lives arising from violence against female lives. This more inclusive, surprisingly old-but-new vision of reproductive choice is called prolife feminism. This book's original edition in 1995 offered brilliant essays on abortion and related social justice issues by the likes of suffragists Susan B. Anthony and Elizabeth Cady Stanton and civil rights leader Fannie Lou Hamer. A decade of activism and research since has made this second, greatly expanded second edition necessary. It not only documents the continuing evolution of prolife feminism worldwide, but more accurately represents the rich diversity of past and present women--and men--who have stood up for both mother and child. It thus is a vital, unique resource for peacemaking in the increasingly globalized abortion war. Volume 1. Chapters 1-15 -- volume 2. Chapters 16-28 Award-winning journalist Jim Krane charts the history of Dubai from its earliest days, considers the influence of the family who has ruled it since the nineteenth century, and looks at the effect of the global economic downturn on a place that many tout as a blueprint for a more stable Middle East The city of Dubai, one of the seven United Arab Emirates, is everything the Arab world isn't: a freewheeling capitalist oasis where the market rules and history is swept aside. Until the credit crunch knocked it flat, Dubai was the fastest-growing city in the world, with a roaring economy that outpaced China's while luring more tourists than all of India. It's one of the world's safest places, a stone's throw from its most dangerous. In City of Gold, Jim Krane, who reported for the AP from Dubai, brings us a boots-on-the-ground look at this fascinating place by walking its streets, talking to its business titans, its prostitutes, and the hard-bitten men who built its fanciful skyline. He delves into the city's history, paints an intimate portrait of the ruling Maktoum family, and ponders where the city is headed. Dubai literally came out of nowhere. It was a poor and dusty village in the 1960s. Now it's been transformed into the quintessential metropolis of the future

through the vision of clever sheikhs, Western capitalists, and a river of investor money that poured in from around the globe. What has emerged is a tolerant and cosmopolitan city awash in architectural landmarks, luxury resorts, and Disnified kitsch. It's at once home to America's most prestigious companies and universities and a magnet for the Middle East's intelligentsia. Dubai's dream of capitalism has also created a deeply stratified city that is one of the world's worst polluters. Wild growth has clogged its streets and left its citizens a tiny minority in a sea of foreigners. Jim Krane considers all of this and casts a critical eye on the toll that the global economic downturn has taken. While many think Dubai's glory days have passed, insiders like Jim Krane who got to know the city and its creators firsthand realize there's much more to come in the City of Gold, a place that, in just a few years, has made itself known to nearly every person on earth. This innovative modern physics textbook is intended as a first introduction to quantum mechanics and its applications. Townsend's new text shuns the historical ordering that characterizes other so-called modern physics textbooks and applies a truly modern approach to this subject, starting instead with contemporary single-photon and single-atom interference experiments. The text progresses naturally from a thorough introduction to wave mechanics through applications of quantum mechanics to solid-state, nuclear, and particle physics, thereby including most of the topics normally presented in a modern physics course. High quality critical care medicine is a crucial component of advanced health care. Completely revised and updated, Key Topics in Critical Care, Second Edition provides a broad knowledge base in the major areas of critical care, enabling readers to rapidly acquire an understanding of the principles and practice of this area of modern clinical medicine. Expanded to include the latest hot topics, the new edition puts an increased emphasis on recent reviews and contains added references to key landmark papers. Using the trademark Key Topics style, each topic has been written by an expert in the field and includes a succinct overview of the subject with references to current publications for further reading. The book provides a framework for candidates of postgraduate medical examinations such as FRCS, MRCP, and FRCA and a reference that can be consulted in emergency situations. New topics include: Critical illness polyneuromyopathy End of life care Inotropes and vasopressors Medical emergency team (outreach critical care) Status epilepticus Venous thromboembolism Applied Sport Psychology was written to introduce readers to psychological theories and techniques that can be used to enhance performance and personal growth of sport participants from youth to elite levels. The four-part organization covers learning, motivation, and social interaction; mental training for performance enhancement; implementing training programs; and enhancing health and well-being. This edition reflects the latest research, practice, and anecdotal examples in applied sport psychology. Applied Sport Psychology is particularly well suited as a text for classes in applied sport psychology and psychology of coaching. The book is also a valuable reference for practicing coaches, sport psychologists, and psychologists. In any age, humans wrestle with apparently inexorable forces. Today, we face the threat of global terrorism. In the aftermath of September 11, few could miss sensing that a great evil was at work in the world. In Flannery O'Connor's time, the threats came from different sources--World War II, the Cold War, and the Korean conflict--but they were just as real. She, too, lived though a "time of terror." The first major critical volume on Flannery O'Connor's work in more than a decade, Flannery O'Connor in the Age of Terrorism explores issues of violence, evil, and terror--themes that were never far from O'Connor's reach and that seem particularly relevant to our present-day setting. The fifteen essays collected here offer a wide range of perspectives that explore our changing views of violence in a post-9/11 world and inform our understanding of a writer whose fiction abounds in violence. Written by both established and emerging scholars, the pieces that editors Avis Hewitt and Robert Donahoo have selected offer a compelling and varied picture of this iconic author and her work. Included are comparisons of O'Connor to 1950s writers of noir literature and to the contemporary American novelist Cormac McCarthy; cultural studies that draw on horror comics of the Cold War and on Fordism and the American mythos of the automobile; and pieces that shed new light on O'Connor's complex religious sensibility and its role in her work. While continuing to speak fresh truths about her own time, O'Connor's fiction also resonates deeply with the postmodern sensibilities of audiences increasingly distant from her era--readers absorbed in their own terrors and sense of looming, ineffable threats. This provocative new collection presents O'Connor's work as a touchstone for understanding where our culture has been and where we are now. With its diverse approaches, Flannery O'Connor in the Age of Terrorism

will prove useful not only to scholars and students of literature but to anyone interested in history, popular culture, theology, and reflective writing. Avis Hewitt has published articles in *Flannery O'Connor Review*, *Christianity and Literature*, and *Renascence*. She is associate professor of English at Grand Valley State University in Allendale, Michigan. Robert Donahoo is professor of English at Sam Houston State University in Huntsville, Texas. He has published articles in *Flannery O'Connor Review*, *Literature and Belief*, *Journal of Contemporary Thought*, and *Journal of the Short Story in English*. Research and development of high energy accelerators began in 1911. Since then, progresses achieved are: The impacts of the accelerator development are evidenced by the many ground-breaking discoveries in particle and nuclear physics, atomic and molecular physics, condensed matter physics, biology, biomedical physics, nuclear medicine, medical therapy, and industrial processing. This book is intended to be used as a graduate or senior undergraduate textbook in accelerator physics and science. It can be used as preparatory course material in graduate accelerator physics thesis research. The text covers historical accelerator development, transverse betatron motion, synchrotron motion, an introduction to linear accelerators, and synchrotron radiation phenomena in low emittance electron storage rings, introduction to special topics such as the free electron laser and the beam-beam interaction. Hamiltonian dynamics is used to understand beam manipulation, instability and nonlinearity. Each section is followed by exercises, which are designed to reinforce the concept discussed and to solve a realistic accelerator design problem. "This book provides a contemporary and complete introduction to astrophysics for astronomy and physics majors."-- With more than 100 years of combined teaching experience and PhDs in particle, nuclear, and condensed-matter physics, these three authors could hardly be better qualified to write this introduction to modern physics. They have combined their award-winning teaching skills with their experience writing best-selling textbooks to produce a readable and comprehensive account of the physics that has developed over the last hundred years and led to today's ubiquitous technology. Assuming the knowledge of a typical freshman course in classical physics, they lead the reader through relativity, quantum mechanics, and the most important applications of both of these fascinating theories. For Adopting Professors, a detailed *Instructors Manual* is also available. 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 \* Adds a new chapter on nuclear astrophysics \* Relates observed nuclear properties to the underlying nuclear interaction and the symmetry principles governing subatomic particles \* Regroups material and appendices to make the text easier to use \* Lists Internet links to essential databases and research projects \* Features end-of-chapter exercises using real-world data. *Introductory 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. *Nuclear Physics in a Nutshell* provides a clear, concise, and up-to-date overview of the atomic nucleus and the theories that seek to explain it. Bringing together a systematic explanation of hadrons, nuclei, and stars for the first time in one volume, Carlos A. Bertulani provides the core material needed by graduate and advanced undergraduate students of physics to acquire a solid understanding of nuclear and particle science. *Nuclear Physics in a Nutshell* is the definitive new resource for anyone considering a career in this dynamic field. The book opens by setting nuclear physics in the context of elementary particle physics and then shows how simple models can provide an understanding of the properties of nuclei, both in their ground states and excited states, and also of the nature of nuclear

reactions. It then describes: nuclear constituents and their characteristics; nuclear interactions; nuclear structure, including the liquid-drop model approach, and the nuclear shell model; and recent developments such as the nuclear mean-field and the nuclear physics of very light nuclei, nuclear reactions with unstable nuclear beams, and the role of nuclear physics in energy production and nucleosynthesis in stars. Throughout, discussions of theory are reinforced with examples that provide applications, thus aiding students in their reading and analysis of current literature. Each chapter closes with problems, and appendixes address supporting technical topics. Written for the full year or three term Calculus-based University Physics course for science and engineering majors, the publication of the first edition of *Physics* in 1960 launched the modern era of *Physics* textbooks. It was a new paradigm at the time and continues to be the dominant model for all texts. *Physics* is the most realistic option for schools looking to teach a more demanding course. The entirety of Volume 2 of the 5th edition has been edited to clarify conceptual development in light of recent findings of physics education research. End-of-chapter problem sets are thoroughly over-hauled, new problems are added, outdated references are deleted, and new short-answer conceptual questions are added. **INTRODUCTORY NUCLEAR PHYSICS** This atlas is the offspring of the "The National Cancer Institute (NCI) Thyroid Fine Needle Aspiration (FNA) State of the Science Conference," hosted by the NCI and organized by Dr. Andrea Abati. Preparations for the conference began 18 months earlier with the designation of a steering committee and the establishment of a dedicated, permanent web site. The meeting took place on October 22 and 23, 2007 in Bethesda, Maryland and was co-moderated by Susan J. Mandel and Edmund S. Cibas. The discussions and conclusions regarding terminology and morphologic criteria 1, 2 from the meeting were summarized in publications by Baloch et al. and form the framework for this atlas. The atlas is organized by the general categories of "Nondiagnostic," "Benign," "Follicular Neoplasm/Suspicious for a Follicular Neoplasm", "Suspicious for Malignancy," and "Malignant," and it includes the definitions and morphologic criteria of these categories as set forth by Baloch et al. The majority of the conference participants also agreed on a category of "undetermined significance," which is incorporated in this atlas (Chap. 4). It is critical that the cytopathologist communicate thyroid FNA interpretations to the referring physician in terms that are succinct, unambiguous, and helpful clinically. We recognize that the terminology used here is a flexible framework that can be modified by individual laboratories to meet the needs of their providers and the patients they serve. The third edition of this highly acclaimed undergraduate textbook is suitable for teaching all the mathematics for an undergraduate course in any of the physical sciences. As well as lucid descriptions of all the topics and many worked examples, it contains over 800 exercises. New stand-alone chapters give a systematic account of the 'special functions' of physical science, cover an extended range of practical applications of complex variables, and give an introduction to quantum operators. Further tabulations, of relevance in statistics and numerical integration, have been added. In this edition, half of the exercises are provided with hints and answers and, in a separate manual available to both students and their teachers, complete worked solutions. The remaining exercises have no hints, answers or worked solutions and can be used for unaided homework; full solutions are available to instructors on a password-protected web site, [www.cambridge.org/9780521679718](http://www.cambridge.org/9780521679718). *Modern Physics, 2nd edition* is the revision of a modern classic that covers all the major topics in modern physics, including relativity, quantum physics, and their applications. · *The Special Theory of Relativity* · *The Particlelike Properties of Electromagnetic Radiation* · *The Wavelike Properties of Particles* · *The Schrödinger Equation* · *The Rutherford-Bohr Model of the Atom* · *The Hydrogen Atom in Wave Mechanics* · *Many-Electron Atoms* · *Molecular Structure* · *Statistical Physics* · *Solid-State Physics* · *Nuclear Structure and Radioactivity* · *Nuclear Reactions and Applications* · *Elementary Particles* · *Astrophysics and General Relativity* · *Cosmology: The Origin and Fate of the Universe* An accessible introduction to nuclear and particle physics with equal coverage of both topics, this text covers all the standard topics in particle and nuclear physics thoroughly and provides a few extras, including chapters on experimental methods; applications of nuclear physics including fission, fusion and biomedical applications; and unsolved problems for the future. It includes basic concepts and theory combined with current and future applications. An excellent resource for physics and astronomy undergraduates in higher-level courses, this text also serves well as a general reference for graduate studies. 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
- \* Adds a new chapter on nuclear astrophysics
- \* Relates observed nuclear properties to the underlying nuclear interaction and the symmetry principles governing subatomic particles
- \* Regroups material and appendices to make the text easier to use
- \* Lists Internet links to essential databases and research projects
- \* Features end-of-chapter exercises using real-world data.

Introductory 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. Changes and additions to the new edition of this classic textbook include a new chapter on symmetries, new problems and examples, improved explanations, more numerical problems to be worked on a computer, new applications to solid state physics, and consolidated treatment of time-dependent potentials. The positive benefits of physical activity for physical and mental health are now widely acknowledged, yet levels of physical inactivity continue to be a major concern throughout the world. Understanding the psychology of physical activity has therefore become an important issue for scientists, health professionals and policy-makers alike as they address the challenge of behaviour change. Psychology of Physical Activity provides comprehensive and in-depth coverage of the fundamentals of exercise psychology, from mental health, to theories of motivation and adherence, and to the design of successful interventions for increasing participation. Now publishing in a fully revised, updated and expanded fourth edition, Psychology of Physical Activity is still the only textbook to offer a full survey of the evidence base for theory and practice in exercise psychology, and the only textbook that explains how to interpret the quality of the research evidence. As the field continues to grow rapidly, the new edition expands the behavioural science content of numerous important topics, including physical activity and cognitive functioning, automatic and affective frameworks for understanding physical activity involvement, new interventions designed to increase physical activity (including use of new technologies), and sedentary behaviour. A full companion website offers useful features to help students and lecturers get the most out of the book during their course, including multiple-choice revision questions, PowerPoint slides and a test bank of additional learning activities. Psychology of Physical Activity is the most authoritative, engaging and up-to-date book on exercise psychology currently available. It is essential reading for all students working in behavioural medicine, as well as the exercise and health sciences. From the Nuremberg trials to the Civil Service Reform Act of 1978 to recent budget reconciliation bills, the Encyclopedia of Public Administration and Public Policy provides detailed coverage of watershed policies and decisions from such fields as privatization, biomedical ethics, education, and diversity. This second edition features a wide range of new topics, including military administration, government procurement, social theory, and justice administration in developed democracies. It also addresses current issues such as the creation of the Department of Homeland Security and covers public administration in the Middle East, Africa, Southeast Asia, the Pacific, and Latin America. For the intermediate-level course, the Fifth Edition of this widely used text takes modern physics textbooks to a higher level. With a flexible approach to accommodate the various ways of teaching the course (both one- and two-term tracks are easily covered), the authors recognize the audience and its need for updated coverage, mathematical rigor, and features to build and support student understanding. Continued are the superb explanatory style, the up-to-date topical coverage, and the Web enhancements that gained earlier editions worldwide recognition. Enhancements include a streamlined approach to nuclear physics, thoroughly revised and updated coverage on particle physics and

astrophysics, and a review of the essential Classical Concepts important to students studying Modern Physics. Handbook of Radioactivity Analysis is written by experts in the measurement of radioactivity. The book describes the broad scope of analytical methods available and instructs the reader on how to select the proper technique. It is intended as a practical manual for research which requires the accurate measurement of radioactivity at all levels, from the low levels encountered in the environment to the high levels measured in radioisotope research. This book contains sample preparation procedures, recommendations on steps to follow, necessary calculations, computer controlled analysis, and high sample throughput techniques. Each chapter includes practical techniques for application to nuclear safety, nuclear safeguards, environmental analysis, weapons disarmament, and assays required for research in biomedicine and agriculture. The fundamentals of radioactivity properties, radionuclide decay, and methods of detection are included to provide the basis for a thorough understanding of the analytical procedures described in the book. Therefore, the Handbook can also be used as a teaching text. Key Features

- \* Includes sample preparation techniques for matrices such as soil, air, plant, water, animal tissue, and surface swipes
- \* Provides procedures and guidelines for the analysis of commonly encountered na

' The original edition of Introduction to Nuclear and Particle Physics was used with great success for single-semester courses on nuclear and particle physics offered by American and Canadian universities at the undergraduate level. It was also translated into German, and used overseas. Being less formal but well-written, this book is a good vehicle for learning the more intuitive rather than formal aspects of the subject. It is therefore of value to scientists with a minimal background in quantum mechanics, but is sufficiently substantive to have been recommended for graduate students interested in the fields covered in the text. In the second edition, the material begins with an exceptionally clear development of Rutherford scattering and, in the four following chapters, discusses sundry phenomenological issues concerning nuclear properties and structure, and general applications of radioactivity and of the nuclear force. This is followed by two chapters dealing with interactions of particles in matter, and how these characteristics are used to detect and identify such particles. A chapter on accelerators rounds out the experimental aspects of the field. The final seven chapters deal with elementary-particle phenomena, both before and after the realization of the Standard Model. This is interspersed with discussion of symmetries in classical physics and in the quantum domain, bringing into full focus the issues concerning CP violation, isotopic spin, and other symmetries. The final three chapters are devoted to the Standard Model and to possibly new physics beyond it, emphasizing unification of forces, supersymmetry, and other exciting areas of current research. The book contains several appendices on related subjects, such as special relativity, the nature of symmetry groups, etc. There are also many examples and problems in the text that are of value in gauging the reader's understanding of the material. Contents:Rutherford ScatteringNuclear PhenomenologyNuclear ModelsNuclear RadiationApplications of Nuclear PhysicsEnergy Deposition in MediaParticle DetectionAcceleratorsProperties and Interactions of Elementary ParticlesSymmetriesDiscrete TransformationsNeutral Kaons, Oscillations, and CP ViolationFormulation of the Standard ModelStandard Model and Confrontation with DataBeyond the Standard Model Readership: Advanced undergraduates and researchers in nuclear and particle physics. Keywords:Rutherford Scattering;Nuclear Properties;Nuclear Structure;Elementary Particles;Sub-Structure of Particles;Particle Detectors;Interactions in Matter;The Standard Model;Symmetries of Nature;Theories of Nuclear and Particle Structure;Radioactivity;SupersymmetryReviews: "The book by Das and Ferbel is particularly suited as a basis for a one-semester course on both subjects since it contains a very concise introduction to those topics and I like very much the outline and contents of this book." Kay Konigsmann Universität Freiburg, Germany "The book provides an introduction to the subject very well suited for the introductory course for physics majors. Presentation is very clear and nicely balances the issues of nuclear and particle physics, exposes both theoretical ideas and modern experimental methods. Presentation is also very economic and one can cover most of the book in a one-semester course. In the second edition, the authors updated the contents to reflect the very recent developments in the theory and experiment. They managed to do it without substantial increase of the size of the book. I used the first edition several times to teach the course 'Introduction to Subatomic Physics' and I am looking forward to use this new edition to teach the course next year." Professor Mark Strikman Pennsylvania State University, USA "This book can be recommended

to those who find elementary particle physics of absorbing interest." Contemporary Physics ' This bestselling textbook teaches students how to do quantum mechanics and provides an insightful discussion

of what it actually means.

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