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Kenneth S. Krane is Professor of Physics (Emeritus) at Oregon State University, where he has served on the faculty since 1974, including 14 years as Department Chair. He received the Ph.D. in nuclear physics from Purdue University in 1970 and held postdoctoral research positions at the Los Alamos National Laboratory and the Lawrence Berkeley National Laboratory before joining the faculty at ...

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Modern Physics-Kenneth S. Krane 2019-02-08 Physics, Volume 2-David Halliday 2010-04-20 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

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Modern Physics, Second Edition provides a clear, precise, and contemporary introduction to the theory, experiment, and applications of modern physics. 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 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. Physics at the Turn of the 20th Century, Special Relativity, Waves and Particles I: Electromagnetic Radiation Behaving as Particles, Waves and Particles II: Matter Behaving as Waves, Bound States: Simple Cases, Unbound States: Obstacles, Tunneling and Particle-Wave Propagation, Quantum Mechanics in Three Dimensions and The Hydrogen Atom, Spin and Atomic Physics, Statistical Mechanics, Bonding: Molecules and Solids, Nuclear Physics, Fundamental Particles and Interactions. For all readers interested in modern physics.

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physics, Jasprit Singh integrates important topics from quantum mechanics, statistical thermodynamics, and materials science, as well as the special theory of relativity. He then goes a step farther and applies these fundamentals to the workings of electronic devices-an essential leap for anyone interested in developing new technologies. From semiconductors to nuclear magnetic resonance to superconducting materials to global positioning systems, Professor Singh draws on wide-ranging applications to demonstrate each concept under discussion. He downplays extended mathematical derivations in favor of results and their real-world design implication, supplementing the book with nearly 100 solved examples, 120 figures, and 200 end-of-chapter problems. Modern Physics for Engineers provides engineering and physics students with an accessible, unified introduction to the complex world underlying today's design-oriented curriculums. It is also an extremely useful resource for engineers and applied scientists wishing to take advantage of research opportunities in diverse fields.

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.

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' 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.

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Contents: Rutherford Scattering Nuclear Phenomenology Nuclear Models Nuclear Radiation Applications of Nuclear Physics Energy Deposition in Media Particle Detection Accelerators Properties and Interactions of Elementary Particles Symmetries Discrete Transformations Neutral Kaons, Oscillations, and CP Violation Formulation of the Standard Model Standard Model and Confrontation with Data Beyond 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; Supersymmetry Reviews: "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

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