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Modern physics - Wikipedia

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Physics - Wikipedia

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Modern Physics is the most up-to-date, accessible presentation of modern physics available. The book is intended to be used in a one-semester course covering modern physics for students who have already had basic physics and calculus courses. The balance of the book leans more toward ideas than toward experimental methods and practical applications because the beginning student is better served by a conceptual framework than by a mass of details. The sequence of topics follows a logical, rather than strictly historical, order. Relativity and quantum ideas are considered first to provide a framework for understanding the physics of atoms and nuclei. The theory of the atom is then developed, and followed by a discussion of the properties of aggregates of atoms, which includes a look at statistical mechanics. Finally atomic nuclei and elementary particles are examined.

Intended to be used in a one-semester course covering modern physics for students who have already had basic physics and calculus courses. Focusing on the ideas, this book considers relativity and quantum ideas to provide a framework for understanding the physics of atoms and nuclei.

This book highlights foundational issues in theoretical physics in an informal, open style of

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lecture. It expresses the flow of ideas in physics — from the period of Galileo and Newton to the contemporary ideas of the quantum and relativity theories, astrophysics and cosmology — as explanations for the laws of matter. Rather than presenting the ideas of physics as a fait accompli, the book leaves it up to the reader to decide which of these 20th-century ideas in science will carry over to the 21st century for our further comprehension of the laws of nature in all domains, from that of elementary particles to cosmology. It is the contention of the author that our future progress in physics comprehension will only take place when the foundational controversies between the quantum and relativity theories are recognized and discussion is given to their resolution. The book, therefore, presents an attitude not normally taken in other present-day books on subjects in contemporary theoretical physics and cosmology. Contents: Philosophy of Science Classical Precursors for the Concepts of Modern Physics Nineteenth Century Physics: Atomism and Continuity Early Anomalies and Elementary Particles From the Old Quantum Theory to Quantum Mechanics Quantum Mechanics: Heisenberg's Matrix Mechanics and the Copenhagen School Concepts of the Theory of Relativity From Special to General Relativity The Universe Conflicts in the Foundations of the Quantum and Relativity Theories Readership: Academics, undergraduates, and graduates in physics and philosophy; interested general readers. Keywords: Quantum Theory; Relativity; Astrophysics; Cosmology; Philosophy of Physics Key Features: Differs from other books on theoretical physics in its concentration on contemporary ideas of physics, rather than on its mathematical expression Addresses those lay readers of science who are interested in the ideas of modern physics at a foundational level, as well as students (both undergraduate and graduate) and professional scientists in physics and astrophysics, with the intention of inducing further dialogue on these subjects Reviews: " Sachs does a good job of explaining the problems and will certainly get you thinking. " Physics World " This is an interesting collection for two reasons. First, relativity and quantum mechanics are discussed ... Second, and importantly, this is fundamentally a philosophical treatise ... This thoughtful book would work very well as a supplement to an upper-division physics course or as the basis for a philosophy of science class. " Choice

This is the third edition of a well-received textbook on modern physics theory. This book provides an elementary but rigorous and self-contained presentation of the simplest theoretical framework that will meet the needs of undergraduate students. In addition, a number of examples of relevant applications and an appropriate list of solved problems are provided. Apart from a substantial extension of the proposed problems, the new edition provides more detailed discussion on Lorentz transformations and their group properties, a deeper treatment of quantum mechanics in a central potential, and a closer comparison of statistical mechanics in classical and in quantum physics. The first part of the book is devoted to special relativity, with a particular focus on space-time relativity and relativistic kinematics. The second part deals with Schrödinger's formulation of quantum mechanics. The presentation concerns mainly one-dimensional problems, but some three-dimensional examples are discussed in detail. The third part addresses the application of Gibbs' statistical methods to quantum systems and in particular to Bose and Fermi gases.

These notes are designed as a text book for a course on the Modern Physics Theory for undergraduate students. The purpose is providing a rigorous and self-contained presentation of the simplest theoretical framework using elementary mathematical tools. A number of examples of relevant applications and an appropriate list of exercises and answered questions are also given.

Rigorous, concise, and provocative monograph analyzes the ancient concept of mass, the

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Introduces the fundamental concepts pertaining to the basic topics of relativity, quantum mechanics and statistical mechanics along with the important sub-fields of physics, namely atomic, nuclear and solid state physics. Superconductivity and optoelectronics, lasers and nanoparticles are also introduced. A key feature of the book is the introduction of latest applications based on x-rays, lasers, radioactivity and condensed matter.

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.

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