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Each chapter in this physics study guide contains a description of key ideas, potential pitfalls, true-false questions that test essential definitions and relations, questions and answers that require qualitative reasoning, and problems and solutions.

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Conceptual Physics Fundamentals OUP Oxford

Physics is a natural science which deals with the study of matter, its motion and behavior through space and time along with the related entities such as energy and force. The primary objective of this discipline is to understand the behavior of the universe. Conceptual physics is one of the approaches towards teaching physics which places emphasis on the concept and ideas of physics rather than the mathematical aspects of physics. Physics is broadly classified into classical physics and modern physics. Subjects such as thermodynamics, electromagnetics, calculus, planetary motion are studied under classical physics. Modern physics is concerned with the phenomena which are governed by the laws of quantum mechanics and theory of relativity. Some major areas of research under this field are nuclear and particle physics, atomic physics, astrophysics, applied physics and condensed matter physics. The various sub-fields of physics along with technological progress that have future implications are glanced at in this book. Different approaches, evaluations and methodologies and advanced studies on physics have been included herein. This book is appropriate for those seeking detailed information in this area. Holt Physics Macmillan

This valuable study tool features answers to odd-numbered Exercises and Problems from the text to help build confidence and understanding of the key concepts in the textbook.

Physical Science Longman Publishing Group

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Conceptual Physics Bushra Arshad

This book presents concepts of theoretical physics with engineering applications. The topics are of an intense mathematical nature involving tools like probability and random processes, ordinary and partial differential equations, linear algebra and infinite-dimensional operator theory, perturbation theory, stochastic differential equations, and Riemannian geometry. These mathematical tools have been applied to study problems in mechanics, fluid dynamics, quantum mechanics and quantum field theory, nonlinear dynamical systems, general relativity, cosmology, and electrodynamics. A particularly interesting topic of research interest developed in this book is the design of quantum unitary gates of large size using the Feynman diagrammatic approach to quantum field theory. Through this book, the reader will be able to observe how basic physics can revolutionize technology and also how diverse branches of mathematical physics like large deviation theory, quantum field theory, general relativity, and electrodynamics have many common issues that provide the starting point for unifying the whole of physics, namely in the formulation of Grand Unified Theories (GUTS).

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Conceptual Physical Science Oxford University Press, USA

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Physics for Scientists and Engineers Study Guide Penguin

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