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systems and to explore the possible ranges of behavior of physical models joining ruth chabay and bruce sherwood for this edition as authors are longtime collaborators aaron titus north carolina state university and stephen spicklemire university of indianapolis who have made great impacts on the new video series interactive figures and simulations the new edition is thoughtfully updated with extensive content revisions including chapter and section level learning objectives clarified and simplified initial presentation of key concepts and techniques and the introduction of angular momentum earlier before collisions

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a modern introduction to physics for advanced students this work focuses on the atomic structure of the material plus the links between macroscopic and microscopic phenomena above all readers learn how to explain complex physical processes using simple models this first volume is devoted to mechanics and the theory of heat and the illustrations are made particularly clear due to the consistent use of models such as the ball and feather model for solids by the end of the book readers will be able to calculate for example the specific heat capacity of an einstein solid using a statistical approach

the overall goal of this calculus based text is to provide an introduction to physics with a modern point of view it emphasizes the atomic nature of matter macro micro connections and modeling complex physical systems the approach is designed to go beyond low level physics and to build upon readers prior preparation the second volume deals with electricity and magnetism and with physical optics in terms of the classical interaction of light and matter atomic models of matter are

again a major theme a key feature is the unified treatment of electrostatics and circuits in terms of electric field and microscopic models of matter

the third edition provides practicing physicists with the fundamental principles that underlie the behavior of matter while presenting a modern integration of 20th century physics emphasis is placed on constructing and using physical models serious computer modeling is introduced in the beginning to help build a strong foundation on the use of this important tool end of chapter problems delve into experiments using simple equipment to gain insight into deep scientific issues stop and think questions are also included to engage physicists in the material

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