

Walter R. Johnson

Atomic Structure Theory

Lectures on Atomic Physics



Springer

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Boucif Abdesselam



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Relativistic Quantum Chemistry Markus Reiher, Alexander Wolf, 2009-02-17 Written by two researchers in the field this book is a reference to explain the principles and fundamentals in a self contained complete and consistent way Much attention is paid to the didactical value with the chapters interconnected and based on each other From beginning to end the authors deduce all the concepts and rules such that readers are able to understand the fundamentals and principles behind the theory Essential reading for theoretical chemists and physicists Book Jacket

Introduction to Classical Electrodynamics, Volume 2 Boucif Abdesselam, 2025-10-07 Since Maxwell's time electromagnetic theory has made spectacular progress particularly in the field of waves Introduction to Classical Electrodynamics 2 presents the fundamental concepts of electromagnetic field theory This book first addresses static potentials with sources and provides a detailed presentation of the method of images and Green's functions It also

analyzes electromagnetic induction phenomena and Maxwell's equations. It examines electromagnetic waves in a vacuum and their properties as well as the concept of electromagnetic energy. Finally, it covers polarized and magnetized media along with electromagnetic fields and their propagation in material media. This book is intended for physics and mathematics students as well as engineering students interested in the challenges of electromagnetic theory. The discussion is supplemented with numerous applications derived from the theoretical concepts presented.

Quantum Mechanics

Eugene D. Commins, 2014-09-08 Eugene D. Commins takes an experimentalist's approach to quantum mechanics, preferring to use concrete physical explanations over formal abstract descriptions to address the needs and interests of a diverse group of students. Keeping physics at the foreground and explaining difficult concepts in straightforward language, Commins examines the many modern developments in quantum physics, including Bell's inequalities, locality, photon polarization, correlations, the stability of matter, Casimir forces, geometric phases, Aharonov-Bohm and Aharonov-Casher effects, magnetic monopoles, neutrino oscillations, neutron interferometry, the Higgs mechanism, and the electroweak standard model. The text is self-contained, covering the necessary background on atomic and molecular structure in addition to the traditional topics. Developed from the author's well-regarded course notes for his popular first-year graduate course at the University of California Berkeley, instruction is supported by over 160 challenging problems to illustrate concepts and provide students with ample opportunity to test their knowledge and understanding.

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