

Atomic & Nuclear PHYSICS

Atomic Physics 8ed

Sebastian Brünink

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Electrodynamics Wolfgang Pauli, Charles P. Enz, 2000-01-01 In the 1950s the distinguished theoretical physicist Wolfgang Pauli delivered a landmark series of lectures at the Swiss Federal Institute of Technology in Zurich His comprehensive coverage of the fundamentals of classical and modern physics was painstakingly recorded not only by his students but also by a number of collaborators whose carefully edited transcriptions resulted in a remarkable six volume work This volume the first of the series presents a brief survey of the historical development and then current problems of electrodynamics followed by sections on electrostatics and magnetostatics steady state currents quasi static fields and rapidly varying fields As does each book in the series Volume 1 includes an index and a wealth of helpful figures and can be read independently of the series by those who wish to focus on a particular topic Originally published in 1973 the text remains entirely relevant thanks to Pauli s manner of presentation As Victor F Weisskopf notes in the Foreword to the series Pauli s style is commensurate to the greatness of its subject in its clarity and impact Pauli s lectures show how physical ideas can be presented clearly and in good mathematical form without being hidden in formalistic expertise Alone or as part of the complete set this volume represents a peerless resource invaluable to individuals libraries and other institutions

Quantum Field Theory Jean-Bernard Zuber, Claude Itzykson, 2012-09-20 This comprehensive text begins with the standard quantization of electrodynamics and perturbative renormalization advancing to functional methods relativistic bound states broken symmetries nonabelian gauge fields and asymptotic behavior 1980 edition *Quantum Mechanics of Particles and Wave Fields* Arthur March, 2006-01-01 A complete explanation of quantum mechanics from its early non relativistic formulation to the complex field theories used so extensively in modern theoretical research this volume assumes no specialized knowledge of the subject It stresses relativistic quantum mechanics since this subject plays such an important role in research explaining the principles clearly and imparting an accurate understanding of abstract concepts This text

deals with quantum mechanics from its earliest developments covering both the quantum mechanics of wave fields and the older quantum theory of particles The final chapter culminates with the author's presentation of his revolutionary theory of fundamental length a concept designed to meet many of quantum theory s longstanding basic difficulties On the Quantum Theory of Line-spectra Niels Bohr,2005-01-01 This classic work by the Nobel Laureate elaborates on the correspondence principle discussing the theory s applications from a uniform point of view and considering the underlying assumptions in their relations to ordinary mechanics and electrodynamics Bohr closely traces the analogy between quantum theory and ordinary theory of radiation 1918 1922 editions Quantum Theory of Fields Gregor Wentzel,2014-03-05 Written by a pioneer of quantum field theory this introductory volume explores scalar fields vector meson fields quantum electrodynamics quantization of electron wave field according to exclusion principle 1949 edition Lectures on Quantum Mechanics Paul A. M. Dirac,2013-05-27 Four concise brilliant lectures on mathematical methods in quantum mechanics from Nobel Prize winning quantum pioneer build on idea of visualizing quantum theory through the use of classical mechanics

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