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MODERN PHYSICS FOR SCIENTISTS AND ENGINEERS R. R. YADAV, DEVRAJ SINGH, SUNIL P. SINGH, DHARMENDRA K. PANDEY, 2013-09-30 Modern Physics for Scientists and Engineers provides thorough understanding of concepts and principles of Modern Physics with their applications The various concepts of Modern Physics are arranged logically and explained in simple reader friendly language For proper understanding of the subject a large number of problems with their step by step solutions are provided for every concept University problems have been included in all chapters A set of theoretical numerical and multiple choice questions at the end of each chapter will help readers to understand the subject This textbook covers broad variety of topics of interest in Modern Physics The Special Theory of Relativity Quantum Mechanics Dual Nature of Particle as well as Schrödinger's Equations with Applications Atomic Physics Molecular Physics Nuclear Physics Solid State Physics Superconductivity X Rays Lasers Optical Fibres and Motion of Charged Particle in Electromagnetic Fields The book is designed as a textbook for the undergraduate students of science and engineering

Quantum Mechanics Harish Parthasarathy, 2021-09-30 This book covers the entire span of quantum mechanics whose developments have taken place during the early part of the twentieth century up till the present day We start with the Rutherford Bohr model of the atom followed by Schrodinger's wave mechanics with its application to the solution of calculating the energy spectrum of a particle in a box the harmonic oscillator and finally the hydrogen atom Heisenberg's matrix mechanics and its duality with Schrodinger's wave mechanics quantum mechanics in the interaction picture Dirac's relativistic theory of the electron exhibiting the spin of the electron as a relativistic effect when it interacts with an external electromagnetic field Feynman's path integral approach to non relativistic quantum mechanics with is a marvellous intuitive interpretation as a sum over paths and how classical mechanics is obtained from its limit as Planck constant tends to zero methods for computing the spectra of the Dirac Hamiltonian in a radial potential quantum field theory as developed by Feynman Schwinger Tomonaga and Dyson for describing the interaction between electrons positrons and photons via propagators using both the operator theoretic expansions and

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An appreciation of nanoscience will help students understand fundamental science concepts across disciplines. Also, learning the enormous implications of the extremely tiny nanoscale phenomena will pique students' interest in the study of 21st century science and at the same time motivate them to learn traditional science.

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