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this book provides 500 carefully selected problems in quantum mechanics each with a detailed solution designed to strengthen conceptual understanding and problem solving skills for students and researchers in physics and chemistry

introduction to solid state physics in its second edition provides a comprehensive introduction to the physical properties of crystalline solids it explains the structure of crystals theory of crystal diffraction and the reciprocal lattice as the book advances it describes different kinds of imperfections in crystals bonding in solids and vibration in one dimensional monoatomic and diatomic linear lattice different theories of specific heat thermal conductivity of solids and lattice thermal conductivity are thoroughly dealt with coverage also includes the free electron theory band theory of solids and semiconductors in addition the book also describes in detail the magnetic properties of solids and superconductivity finally the book includes discussions on lasers nanotechnology and the basic principles of fibre optics and holography some new topics like cellular method quantum hall effect de haas van alphen effect pauli paramagnetism and semiconductor laser have been added in the present edition of the book to make it more useful for the students the book is designed to meet the requirements of undergraduate and postgraduate students of physics for their courses in solid state physics condensed matter physics and material science key features puts a conceptual emphasis on the subject includes numerous diagrams and figures to clarify the concepts gives step by step explanations of theories provides chapter end exercises to test the knowledge acquired

this comprehensive and well written book provides a thorough understanding of the principles of modern physics their relations and their applications most of the developments in physics that took place during the twentieth century are called modern something to be treated differently from the classical physics this book offers a detailed presentation of a wide range of interesting topics starting from the special theory of relativity basics of quantum mechanics atomic physics spectroscopic studies of molecular structures solid state physics and proceeding all the way to exciting areas such as lasers fibre optics and holography an in depth treatment of the different aspects

of nuclear physics focuses on nuclear properties nuclear models fission fusion particle accelerators and detectors the book concludes with a chapter on elementary interactions symmetries conservation laws the quark model and the grand unified theory clear and readable this book is eminently suitable as a text for b sc physics course

this thoroughly revised and updated text now in its second edition is primarily intended as a textbook for undergraduate students of physics the book provides a sound understanding of the fundamental concepts of optics adopting an integrated approach to the principles of optics it covers the requirements of syllabi of undergraduate students in physics and engineering in indian universities the book includes a wide range of interesting topics such as fermat s principle geometrical optics dispersion interference diffraction and polarization of light waves optical instruments and lens aberrations it also discusses electromagnetic waves fundamentals of vibrations and wave motion the text explains the concepts through extensive use of line drawings and gives full derivations of essential relations the topics are dealt with in a well organized sequence with proper explanations along with simple mathematical formulations new to the second edition incorporates two new chapters i e fundamentals of vibrations and wave motion includes several worked out examples to help students reinforce their comprehension of theory provides formulae at a glance and conceptual questions with their answers for quick revision key features provides several solved numerical problems to help students comprehend the concepts with ease includes multiple choice questions and theoretical questions to help students check their understanding of the subject matter contains unsolved numerical problems with answers to build problem solving skills

one of the most important subjects for any student of engineering or materials to master is the behaviour of materials and structures under load the way in which they react to applied forces the deflections resulting and the stresses and strains set up in the bodies concerned are all vital considerations when designing a mechanical component such that it will not fail under predicted load during its service lifetime building upon the fundamentals established in the introductory volume mechanics of materials 1 this book extends the scope of material covered into more complex areas such as unsymmetrical bending loading and deflection of struts rings discs cylinders plates diaphragms and thin walled sections there is a new treatment of the finite element method of analysis and more advanced topics such as contact and residual stresses stress concentrations fatigue creep and fracture are also covered each chapter contains a summary of the essential formulae which are developed in the chapter and a large number of worked examples which progress in level of difficulty as the principles are enlarged upon in addition each chapter concludes with an extensive selection of problems for solution by the

student mostly examination questions from professional and academic bodies which are graded according to difficulty and furnished with answers at the end

quantum mechanics is an important area of physics and students of ten find it tough from the understanding point of view by providing 500 problems with their solutions professor aruldas with his expertise in and long experience of teaching the subject makes the students comprehend the fundamental concepts of quantum mechanics with ease this problem book provides a thorough understanding of the subject and its applications to various physical and chemical problems the text includes typical problems that illustrate the concepts it is self explanatory comprehensive and user friendly key features gives in the beginning of each chapter an outline of the theory required for solving problems includes problems from the simple plug ins to increasing order of difficulty to strengthen the student s understanding of the subject provides many mathematical steps to make the book user friendly gives solutions of problems with different types of potentials including the dirac delta function potential both undergraduate and postgraduate students of physics and chemistry as well as those preparing for the joint csir ugc test for jrf and other competitive examinations should find this book extremely practical and valuable

this thoroughly revised book now in its fourth edition continues to provide a comprehensive introduction to this increasingly important area of nuclear and particle physics it combines coverage of basic concepts principles and applications along with the latest developments beginning with the historical developments of the subject properties and constituents of the nucleus quantitative facts about nucleus etc the book moves on to give insights into nuclear models phenomenon of radioactivity and its applications in various fields nuclear reactions including reactions in the sun and stars photoelectric and compton effects pair creation different particle accelerators and radiation detectors unique features contains actual experimental data large number of solved problems to help students comprehend the concepts with ease provides unsolved problems with answers and review questions to test the students comprehension of the subject new to the fourth edition some sections have been revised and enlarged to enhance their comprehension such as the neutron activation analysis scintillation and hpge detectors includes a list of accelerators provides several new solved and unsolved problems target audience b sc m sc physics

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Introduction

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