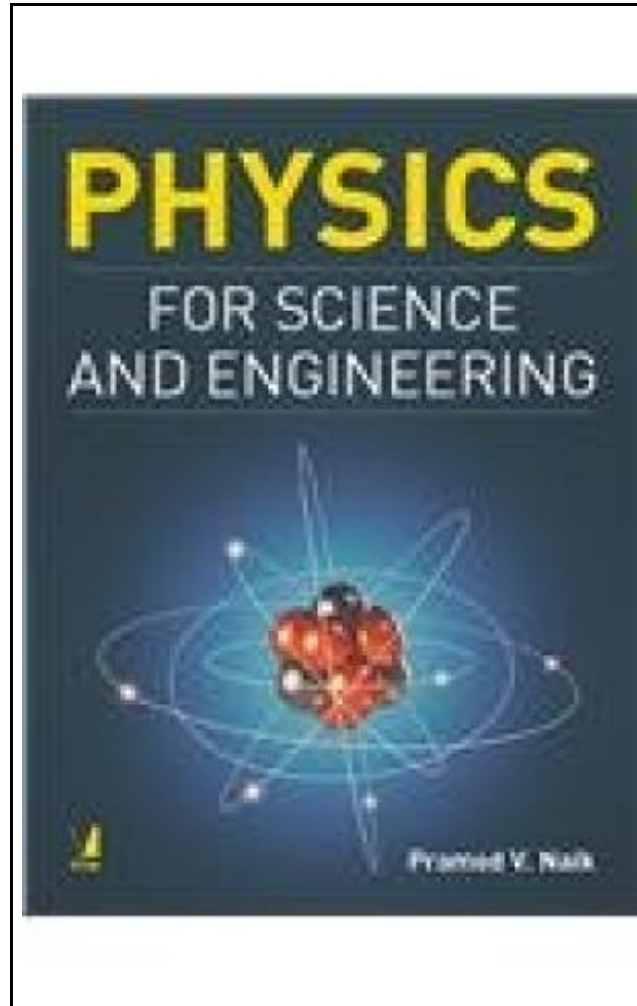


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Viva Books Private Limited, 2014. Softcover. Book Condition: New. Description: This textbook is designed for the course in Physics offered to first-year undergraduate students of science and engineering in several disciplines. Each topic starts from the basic principles and covers all essential points including the latest developments. The book is divided into 20 chapters, comprising crystal structure, acoustics, thermodynamics, thermal, electric, dielectric and magnetic properties of materials, optics (interference, diffraction and polarization), semiconductors, motion of a charged particle, nuclear radiations and detectors, modern physics (quantum theory, X-rays and quantum mechanics), laser, optical fibre, superconductivity and nanoscience and nanotechnology. The subject matter is presented in a pedagogically sound manner. It provides a solid understanding of the fundamental concepts and the focus is on problem-solving skills. All practice problems are provided with solutions to test the understanding of the topics. A special section 'Suggested Reading' provides contemporary developments and the future of the topics covered in the book. Contents: ? Preface ? What is Physics? CRYSTAL STRUCTURE ? Space Lattice ? Cubic Structures ? Hexagonal Closed-Packed (HCP) Structure ? Diamond Structure ? Some Simple Crystal Structures ? Sodium Chloride ? Cesium Chloride ? Cubic Zinc Sulphide ? Legancy and Critical Radius Ratio ? Directions and Miller Indices ? Crystal Defects or Imperfections ? Point Imperfections ? Line Imperfections ? Planar or Surface Imperfection ? Volume Imperfections ? Liquid Crystals ? Types of Liquid Crystals (Nematic, Cholesteric, Smectic) ? Liquid Crystal Display ? Solved Problems ? Multiple Choice Questions ? Questions ? Problems ACOUSTICS ? Sound ? Intensity and Loudness of Sound ? Acoustics of Buildings ? Ultrasonics ? Generating Ultrasonic Waves ? Applications ? Solved Problems ? Multiple Choice Questions ? Questions ? Problems THERMODYNAMICS ? State, Equilibrium, Process and Path ? Macroscopic and Microscopic Views ? Zeroth Law of Thermodynamics ?...



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