



Introduction to Solid State Physics

Arun Kumar

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This textbook 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 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.

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.

The book is designed to meet the requirements of undergraduate and postgraduate students of physics and also for the engineering students for their courses in solid state physics, condensed matter physics and material science.

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