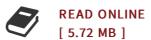




Solid State Physics

By R.K. Puri, V.K. Babbar

S. Chand & Company Ltd, 2013. Softcover. Book Condition: New. 5th or later edition. CONTENTS: Preface; I. CRYSTAL STRUCTURE: 1. Introduction 2. Crystal Lattice and Translation Vectors 3. Unit Cell 4. Basis 5. Symmetry Operations 6. Point Groups and Space Groups 7. Types of Lattices 8. Lattice Directions and Planes 9. Interplanar Spacing 10. Simple Crystal Structures: i. Close-Packed Structures ii. Loose-Packed Structures 11. Structure of Diamond 12. Zinc Blende (ZnS) Structure 13. Sodium Chloride (NaC1) Structure Solved **Examples Summary Very Short Questions Short Questions** Long Questions Problems II. X-RAY DIFFRACTION AND RECIPROCAL LATTICE: 1. Introduction 2. X-Ray Diffraction: i. The Bragg`s Treatment: Bragg`s Law ii. The Von Laue Treatment: Laue`s Equations 3. X-Ray Diffraction Methods: i. The Laue's Method ii. Rotating Crystal Method iii. Powder Method 4. Reciprocal Lattice: i. Reciprocal Lattice Vectors ii. Reciprocal Lattice to sc Lattice iii. Reciprocal Lattice to bcc Lattice iv. Reciprocal Lattice to fee Lattice 5. Properties of Reciprocal Lattice 6. Bragg`s Law in Reciprocal Lattice 7. Brillouin Zones: i. Brillouin Zone of bcc Lattice ii. Brillouin Zone of fee Lattice 8. Atomic Scattering Factor 9. Geometrical Structure Factor Solved Examples Summary Very Short...



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