

Contents

<i>Preface</i>	v
<i>Units of Measurements</i>	vii
<i>Physical Constants</i>	ix
<i>Conversion Factors</i>	xi
1. Basic Crystallography	1.1-1.43
2. Atomic Shape and Size	2.1-2.26
3. Atomic Bonding and Packing	3.1-3.32
4. Crystal Imperfections and Atomic Diffusion	4.1-4.37
5. Lattice Vibrations and Thermal Properties of Materials	5.1-5.26
6. Diffraction of Waves and Particles	6.1-6.46
7. Electrical Properties of Materials	7.1-7.30
8. Band Theory and Fermi Surfaces	8.1-8.26
9. Semi conducting Properties of Materials	9.1-9.25
10. Dielectric and Optical Properties of Materials	10.1-10.19
11. Magnetic Properties of Materials	11.1-11.12
12. Superconducting Properties of Materials	12.1-12.9
<i>Index</i>	<i>I.1</i>