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Nota di contenuto	Cover; Preface; Contents; Chapter 1 Classification and Selection of Materials; Chapter 2 Atomic Structure and Electronic Configuration; Chapter 3 Crystal Geometry, Structure and Defects; Chapter 4 Bonds in Solids; Chapter 5 Electron Theory of Metals; Chapter 6 Photoelectric Effect; Chapter 7 Diffusion in Solids; Chapter 8 Mechanical Properties of Materials and Mechanical Tests; Chapter 9 Alloy Systems, Phase Diagrams and Phase Transformations; Chapter 10 Heat Treatment; Chapter 11 Deformation of Materials; Chapter 12. Oxidation and Corrosion Chapter 13 Thermal and Optical Properties of MaterialsChapter 14 Electrical and Magnetic Properties of Materials; Chapter 15 Semiconductors; Chapter 16 Superconductivity and Superconducting Materials; Chapter 17 Organic Materials: Polymers and Elastomers; Chapter 18 Composites; Chapter 19 Nanostructured Materials; Appendix-1 Units, Conversion Factors, Physical Constants; Appendix 2 Conversion Factors; Appendix 3 Physical Constants; Appendix 4 Prefix Names, Symbols and Multiplication Factors; Subject Index
Sommario/riassunto	About the Book: The book has been designed to cover all relevant topics in B.E. (Mechanical/Metallurgy/Material Science/Production Engineering), M.Sc. (Material Science), B.Sc. (Honours), M.Sc. (Physics),

M.Sc. (Chemistry), AMIE and Diploma students. Students appearing for GATE, UPSC, NET, SLET and other entrance examinations will also find book quite useful. In Nineteen Chapters, the book deals with atomic structure, the structure of solids; crystal defects; chemical bonding; diffusion in solids; mechanical properties and tests of materials; alloys, phase diagrams and phase transformation
