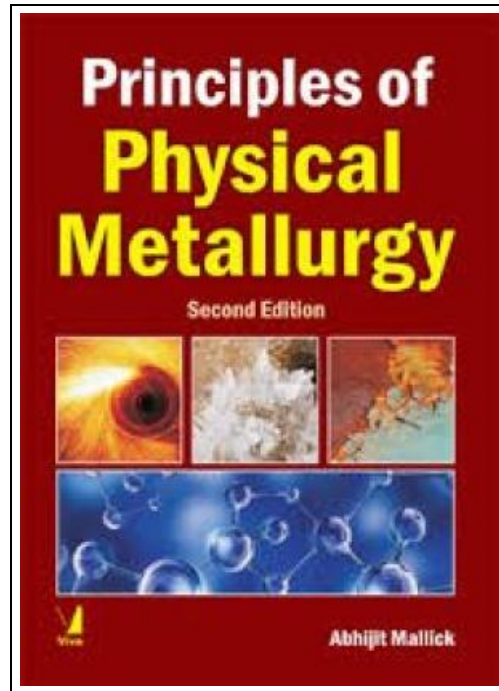


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Viva Books Private Limited, 2015. Softcover. Book Condition: New. 2nd edition. Description: This book is specially designed for the mechanical and production streams of B.E./B. Tech students. It is also a handy reference textbook for those interested in metallurgy. This book focuses on the fundamentals of physical metallurgy including crystal structure and imperfections, phase equilibria, phase transformations and heat treatment. Failure and corrosion properties of materials have been discussed in detail. A detailed discussion of magnetism, conductors and semiconductors is the asset of this book. The book also highlights the optical properties, diffusion, chemical bonding, non-conventional energy resources, ceramics and composites. Appendix I contains a collection of reference tables. Multiple-choice questions, short-answer-type questions, long-answer-type questions and numerical problems are provided in Appendix II of this book as exercise for students. Contents: Chapter 1: Solid State Chemistry? Crystallography ? Unit Cell ? Atomic Radius ? Effective Number of Atoms ? Atomic Packing Factor ? Density of a Cubic Crystal ? Fundamental Laws of Crystallography ? Law of constancy of interfacial angle ? Law of rationality of indices ? Characteristics of Miller indices ? Law of symmetry ? Miller Indices and Interplanar Spacing ? Interplanar spacing ? Miller indices for HCP crystals ? Bragg?s Law Chapter 2: Crystal Defects or Imperfections? Point Imperfections ? Imperfection ? Schottky defect ? Frenkel defect ? Non-stoichiometric defects ? Metal excess defects ? Metal deficiency defect ? Impurity defects ? Line Imperfections ? Edge dislocation ? Screw dislocation ? Surface Imperfections ? Driving Force for Extended Dislocation ? Strain Hardening and tPN ? Peierls - Nabarro stress (tPN) ? Critically Resolved Shear Stress ? Dislocation Generator: The Frank-Read Source ? Cross-Slip ? Slip Bands and Invariant Burgers Vector ? Deformation or Mechanical Twinning Chapter 3: Chemical Bonding ? Atom and Molecule ? Atomic Spectrum ? Filling...

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