



Engineering Materials and Metallurgy for ANNA University (IV-Mech-2008 Course)

By Anup Goel, S.S. Sabharwal

Technical Publications 0. Softcover. Book Condition: New. First edition. Review (Not for Exam): Crystal structure - BCC, FCC and HCP structure - Unit cell - Crystallographic planes and directions, Miller indices - Crystal imperfections, Point, Line, Planar and volume defects - Grain size, ASTM grain size number. Unit I - Constitution of Alloys and Phase Diagrams Constitution of alloys - Solid solutions, Substitutional and Interstitial - Phase diagrams, Isomorphous, Eutectoid, Eutectic, Peritectic, and peritectoid reactions, Iron - Iron carbide equilibrium diagram. Classification of steel and cast iron, Microstructure, Properties and applications. Unit II - Heat Treatment Definition - Full annealing, Stress relief, Recrystallisation and spheroidizing - Normalising, Hardening and tempering of steel. Isothermal transformation diagrams - Cooling curves superimposed on I.T. diagram, CCR - Hardenability, Jominy end quench test - Austempering, Martempering - Case hardening - Carburising, Nitriding, Cyaniding, Carbonitriding, Flame and induction hardening. Unit III - Mechanical Properties and Testing Mechanism of plastic deformation, Slip and twinning - Types of fracture - Testing of materials under tension, Compression and shear loads - Hardness tests (Brinell, Vickers and Rockwell), Impact test - Izod and Charpy, Fatigue and creep tests, Fracture toughness tests. Unit IV - Ferrous and Non - Ferrous Metals...



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