



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...



READ ONLINE
[7.4 MB]

Reviews

Merely no phrases to spell out. I am quite late in start reading this one, but better then never. Your way of life period is going to be enhance once you complete reading this publication.

-- **Joanie Hamill I**

A top quality ebook and also the font employed was interesting to read. This is for those who statte there was not a worth studying. Your life span will probably be enhance when you total looking at this ebook.

-- **Billy Christiansen**

You May Also Like



Studyguide for Introduction to Early Childhood Education: Preschool Through Primary Grades by Jo Ann Brewer ISBN: 9780205491452

2011. Softcover. Book Condition: New. 6th. 8.25 x 11 in. Never HIGHLIGHT a Book Again! Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights, and quizzes for your textbook with optional...



Studyguide for Constructive Guidance and Discipline: Preschool and Primary Education by Marjorie V. Fields ISBN: 9780136035930

2009. Softcover. Book Condition: New. 5th. 8.25 x 11 in. Never HIGHLIGHT a Book Again! Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights, and quizzes for your textbook with optional...



Studyguide for Preschool Appropriate Practices by Janice J. Beaty ISBN: 9781428304482

2011. Softcover. Book Condition: New. 3rd. 8.25 x 11 in. Never HIGHLIGHT a Book Again! Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights, and quizzes for your textbook with optional...



Studyguide for Skills for Preschool Teachers by Janice J. Beaty ISBN: 9780131583788

2011. Softcover. Book Condition: New. 8th. 8.25 x 11 in. Never HIGHLIGHT a Book Again! Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights, and quizzes for your textbook with optional...



Studyguide for Social Studies for the Preschool/Primary Child by Carol Seefeldt ISBN: 9780137152841

2011. Softcover. Book Condition: New. 8th. 8.25 x 11 in. Never HIGHLIGHT a Book Again! Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights, and quizzes for your textbook with optional...



Studyguide for Creative Thinking and Arts-Based Learning : Preschool Through Fourth Grade by Joan Packer Isenberg ISBN: 9780131188310

2011. Softcover. Book Condition: New. 4th. 8.25 x 11 in. Never HIGHLIGHT a Book Again! Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights, and quizzes for your textbook with optional...