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# **Materials Science and Engineering**

## *A First Course*



**V. Raghavan**

# Material Science Engineering V Raghavan

**Zhe Xu**



## **Material Science Engineering V Raghavan:**

MATERIALS SCIENCE AND ENGINEERING, SIXTH EDITION V. RAGHAVAN, 2015-05-01 This well established and widely adopted book now in its Sixth Edition provides a thorough analysis of the subject in an easy to read style It analyzes systematically and logically the basic concepts and their applications to enable the students to comprehend the subject with ease The book begins with a clear exposition of the background topics in chemical equilibrium kinetics atomic structure and chemical bonding Then follows a detailed discussion on the structure of solids crystal imperfections phase diagrams solid state diffusion and phase transformations This provides a deep insight into the structural control necessary for optimizing the various properties of materials The mechanical properties covered include elastic anelastic and viscoelastic behaviour plastic deformation creep and fracture phenomena The next four chapters are devoted to a detailed description of electrical conduction superconductivity semiconductors and magnetic and dielectric properties The final chapter on Nanomaterials is an important addition to the sixth edition It describes the state of art developments in this new field This eminently readable and student friendly text not only provides a masterly analysis of all the relevant topics but also makes them comprehensible to the students through the skillful use of well drawn diagrams illustrative tables worked out examples and in many other ways The book is primarily intended for undergraduate students of all branches of engineering B E B Tech and postgraduate students of Physics Chemistry and Materials Science **KEY FEATURES** All relevant units and constants listed at the beginning of each chapter A note on SI units and a full table of conversion factors at the beginning A new chapter on Nanomaterials describing the state of art information Examples with solutions and problems with answers About 350 multiple choice questions with answers

**MATERIALS SCIENCE AND ENGINEERING : PROBLEMS WITH SOLUTIONS SHETTY, M.N., 2015-12-01** This book with analytical solutions to 260 select problems is primarily designed for the second year core course on materials science The treatment of the book reflects the author s experience of teaching this course comprehensively at IIT Kanpur for a number of years to the students of engineering and 5 year integrated disciplines The problems have been categorised into five sections covering a wide range of solid state properties Section 1 deals with the dual representation of a wave and a particle and then comprehensively explains the behaviour of particles within potential barriers It provides solutions to the problems that how the energy levels of a free atom lead to the formation of energy bands in solids The statistics of the distribution of particles in different energy states in a solid has been detailed leading to the derivation of Maxwell Boltzmann Bose Einstein and Fermi Dirac statistics and their mutual relationships Quantitative derivation of the Fermi energy has been obtained by considering free electron energy distribution in solids and then considering Fermi Dirac distribution as a function of temperature The derivation of the Richardson s equation and the related work function has been quantitatively dealt with The phenomenon of tunnelling has been dealt with in terms of quantum mechanics whereas the band structure and electronic properties of materials are given quantitative treatment by using Fermi

Dirac distribution function Section 2 deals with the nature of the chemical bonds types of bonds and their effect on properties followed by a detailed presentation of crystal structures of some common materials and a discussion on the structures of C60 and carbon nanotubes Coordination and packing in crystal structures are considered next followed by a detailed X ray analysis of simple crystal structures imperfections in crystals diffusion phase equilibria and mechanical behaviour Section 3 deals with thermal and electrical properties and their mutual relationships Calculations of Debye frequency Debye temperature and Debye specific heat are presented in great detail A brief section on superconductivity considers both the conventional and the high TC superconductors Sections 4 and 5 deal with the magnetic and dielectric materials considering magnetic properties from the point of view of the band theory of solids Crystal structures of some common ferrites are given in detail Similarly the displacement characteristics in dielectrics are considered from their charge displacements giving rise to some degree of polarization in the materials

**PHYSICAL METALLURGY: PRINCIPLES AND PRACTICE, THIRD EDITION** RAGHAVAN, V.,2015-11-10 This well established book now in its Third Edition presents the principles and applications of engineering metals and alloys in a highly readable form This new edition retains all the basic topics covered in earlier editions such as phase diagrams phase transformations heat treatment of steels and nonferrous alloys shape memory alloys solidification fatigue fracture and corrosion as well as applications of engineering alloys A new chapter on Nanomaterials has been added Chapter 8 The field of nano materials is interdisciplinary in nature covering many disciplines including physical metallurgy Intended as a text for undergraduate courses in Metallurgical and Materials Engineering the book is also suitable for students preparing for associate membership examination of the Indian Institute of Metals AMIIM and other professional examinations like AMIE

*RATE PROCESSES IN METALLURGY, REVISED EDITION* MOHANTY, A. K.,2009-06-08 Primarily intended for the undergraduate students of metallurgical engineering this book provides a firm foundation for the study of the fundamental principles of transport processes and kinetics of the chemical reactions that greatly help in carrying out a complete analysis of the rate processes in metallurgy Systematically organized in eight chapters the book provides a comprehensive treatment and balanced coverage of topics such as kinetic properties of fluids heat transfer mass transfer techniques of dimensional analysis treatment of transport problems by means of the boundary layer theory reaction kinetics and also makes a study of simultaneous transfer of heat mass and momentum for various metallurgical phenomena Every major concept introduced is worked out through suitable solved examples to a numerical conclusion In addition each chapter concludes with a wide variety of review questions and problems to aid further understanding of the subject

Physical and Numerical Simulation of Materials Processing VII L. Pentti Karjalainen,David A. Porter,Antti Järvenpää,2013-07-01 Selected peer reviewed papers from the 7th International Conference on Physical and Numerical Simulation of Materials Processing ICPNS 13 June 16 19 2013 Oulu Finland

Sponge Iron Production By Direct Reduction Of Iron Oxide CHATTERJEE, AMIT,2010 This book provides a fascinating study of the very important emerging

field of direct reduction in which iron ore is directly reduced in the solid state using either natural gas or non coking coal to produce a highly metallised material referred to as sponge iron or direct reduced iron This intermediate product is subsequently melted in electric arc furnaces or induction furnaces sometimes even in basic oxygen furnaces to produce liquid steel Such a process combination enables steel to be produced without using coking coal which is an expensive input in the normal blast furnace basic oxygen furnace route of steelmaking adopted in integrated steel plants The book offers comprehensive coverage and critical assessment of various coal based and gas based direct reduction processes Besides dealing with the application of the theoretical principles involved in the thermodynamics and kinetics of direct reduction the book also contains some worked out examples on sponge iron production The concluding part of this seminal book summarises the present and future scenario of direct reduction including the use of gas generated from coal in direct reduction processes The book is primarily intended for the undergraduate and postgraduate students of metallurgical engineering It is also a must read for researchers technologists and process metallurgists engaged in the rapidly developing field of direct reduction of iron oxides which is of critical importance for India and other developing nations that are beginning to play a major role in global steelmaking

**CHARACTERIZATION OF MATERIALS** MITRA, P.K.,2013-12-12

This textbook is primarily intended for undergraduate students of metallurgical and materials science engineering and postgraduate students of material science It is the outcome of author s thirty five years teaching experience at both undergraduate and postgraduate levels In this book whether it is crystal structure or the instruments attempt has been made to build up from basics Sufficient emphasis is given on the applications of each characterization technique This book can be divided into two parts The first part deals with understanding of structure and depiction of crystallographic planes and directions quantitatively which is absolutely necessary for understanding of application of X rays or electron microscopes The second part deals with basic principles and applications of X ray and electron diffraction small angle and grazing incidence X ray scattering and spectroscopic analysis methods The chapter on electron microscopes includes almost whole range of instruments like TEM SEM FESEM microprobe analyzer and AFM used for characterizing micro and nanomaterials The spectroscopic methods discussed are UV VIS IR FTIR Raman and Auger electron spectroscopes

**Theory of Transformations in Steels** Harshad K. D. H. Bhadeshia,2021-03-25 Written by the leading authority in the field of solid state phase transformations Theory of Transformations in Steels is the first book to provide readers with a complete discussion of the theory of transformations in steel Offers comprehensive treatment of solid state transformations covering the vast number in steels Serves as a single source for almost any aspect of the subject Features discussion of physical properties thermodynamics diffusion and kinetics Covers ferrites martensite cementite carbides nitrides substitutionally alloyed precipitates and pearlite Contains a thoroughly researched and comprehensive list of references as further and recommended reading With its broad and deep coverage of the subject this work aims at inspiring research within the field of

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