

Science Of Engineering Materials 2nd Ed

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The Science and Design of Engineering Materials
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The Principles of Engineering Materials
Innovations in Everyday Engineering
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the engineering designer is always limited by the properties of available materials some properties are critically affected by variations in composition in state or in testing conditions while others are much less so the engineer must know this if he is to make intelligent use of the data on properties of materials that he finds in handbooks and tables and if he is to exploit successfully new materials as they become available he can only be aware of these limitations if he understands how properties depend on structure at the atomic molecular microscopic and macroscopic levels inculcating this awareness is one of the chief aims of the book which is based on a successful course designed to give university engineering students the necessary basic knowledge of these various levels the material is equivalent to a course of about eighty to a hundred lectures in the first part of the book the topics covered are mainly fundamental physics the structure of the atom considered in non wave mechanical terms leads to the nature of interatomic forces and aggregations of atoms in the three forms gases liquids and solids sufficient crystallography is discussed to facilitate an understanding of the mechanical behaviour of the crystals the band theory of solids is not included but the basic concepts which form a preliminary to the theory energy levels of electrons in an atom Pauli's exclusion principle and so on are dealt with

cd rom contains dynamic phase diagram tool over 30 animations of concepts from the text photomicrographs from the text

this text gives a broad introduction to the properties of materials used in engineering applications and is intended to provide a course in engineering materials for students with no previous background in the subject

an introduction to the structure property relationships of engineering materials

this book provides an invaluable reference of materials engineering written for a broad audience in an engaging effective way several stories explain how perseverance and organized research helps to discover new processes for making important materials and how new materials with unmatched properties are theoretically conceived tested in the laboratory mass produced and deployed for the benefit of all this book provides a welcome introduction to how advances are made in the world of materials that sustain and define our contemporary standard of living suitable for trained materials scientists and the educated layman with an appreciation of engineering the book will be especially appealing to the young materials engineer for whom it will serve as a long term reference due to its clear and rigorous illustration of the field s essential features

an undergraduate text for engineers studying materials science this book deals with the basic principles in a simple yet meaningful manner updated throughout and with new diagrams and photographs in this fourth edition this continues to be a popular text with students and lecturers alike

this edition comprehensively updates the field of fracture mechanics by including details of the latest research programmes it contains new material on non metals design issues and statistical aspects the application of fracture mechanics to different types of materials is stressed

the book has been thoroughly revised several new articles have been added specifically in chapters in mortar concrete paint varnishes distempers and antitermite treatment to make the book to still more comprehensive and a useful unit for the students preparing for the examination in the subject

this new edition of an established work offers a comprehensive and integrated account of the fundamental properties of the varied engineering materials metals ceramics and polymers and their application in engineering design revisions include expanded treatment of point defects and grain boundaries updated sections on superconductivity optic fibers wood glass fiber reinforced plastics and more

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