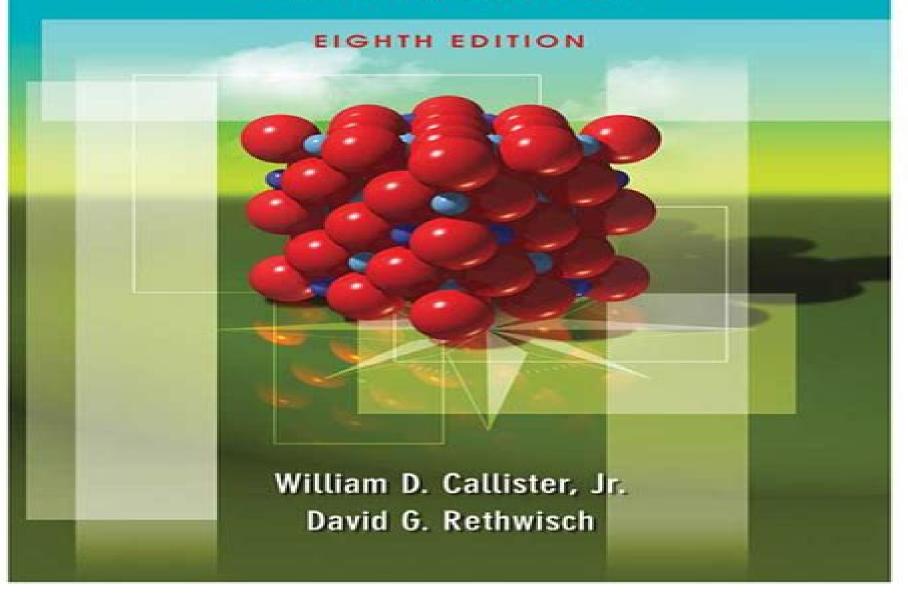
MATERIALS SCIENCE AND ENGINEERING AN INTRODUCTION



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Judd E. Hollander

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process Several topics are expanded separately as Guided Learning Units Crystallography Materials Selection in Design Process Selection in Design and Phase Diagrams and Phase Transformations For instructors a solutions manual image bank and other ancillaries are available at https educate elsevier com book details 9780081023990 Materials Science and Engineering William D. Callister (Jr.),2012 Materials Science and Engineering William D. Callister,David G. Rethwisch,2023 Materials Science and Engineering William D Callister, Jr., William D. Callister, 2007-09

Materials Science and Engineering: An Introduction, WileyPLUS Student Package William D. Callister, Jr., David Introduction to Materials Science Jean-Pierre Mercier, Gérald Zambelli, Wilfried Kurz, 2002 G. Rethwisch, 2017-12-04 The approach of this concise but comprehensive introduction covering all major classes of materials is right for not just materials science students and professionals but also for those in engineering physics and chemistry or other related disciplines The characteristics of all main classes of materials metals polymers and ceramics are explained with reference to real world examples So each class of material is described then its properties are explained with illustrative examples from the leading edge of application This edition contains new material on nanomaterials and nanostructures and includes a study of degradation and corrosion and a presentation of the main organic composite materials Illustrative examples include carbon fibres the silicon crystal metallic glasses and diamond films Applications explored include ultra light aircraft contact lenses dental materials single crystal blades for gas turbines use of lasers in the automotive industry cables for cable cars permanent magnets and molecular electronic devices covers latest materials including nanomaterials and nanostructures real world case studies bring the theory to life and illustrate the latest in good design all major classes of materials are covered in this concise yet comprehensive volume Materials Science and Engineering William D. Callister, 2002-08-12 Clear and concise discussions This text has received many accolades for its ability to clearly and concisely convey materials science and engineering concepts at an appropriate level to ensure student understanding For examples see chapters 3 4 5 and 9 Mechanical property coverage The Sixth Edition maintains its extensive introductory level coverage of mechanical properties and failure the most important materials considerations for many engineers For examples see chapters 6 7 8 A picture is worth 1000 words The Sixth Edition judiciously and extensively makes use of illustrations and photographs The approximate 500 figures include a large number of photographs that show the microstructure of various materials e.g. Figures 9 12 10 8 13 12 14 15 and 16 5 Current and up to date Students are presented with the latest developments in Material Science and Engineering Such up to date content includes advanced ceramic and polymeric materials composites high energy hard magnetic materials and optical fibers in communications For examples see sections 13 7 15 19 16 8 20 9 and 21 14 Why study These sections at the beginning of each chapter provide the student with reasons why it is important to learn the material covered in the chapter Learning objectives A brief list of learning objectives for each chapter states the key learning concepts for the chapter Resources to facilitate the materials selection process Appendix B which contains 11

properties for a set of approximately 100 materials is included which be used in materials selection problems An additional resource Appendix C contains the prices for all materials listed in Appendix B The text is packaged with a CD ROM that contains 1 interactive software modules to enhance visualization of three dimensional objects 2 additional coverage of select topics and 3 complete solutions to selected problems from the text in order to assist students in mastering problem solving All Access Pack for Materials Science and Engineering William D. Callister, Jr., David G. Rethwisch, 2013-07-22

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