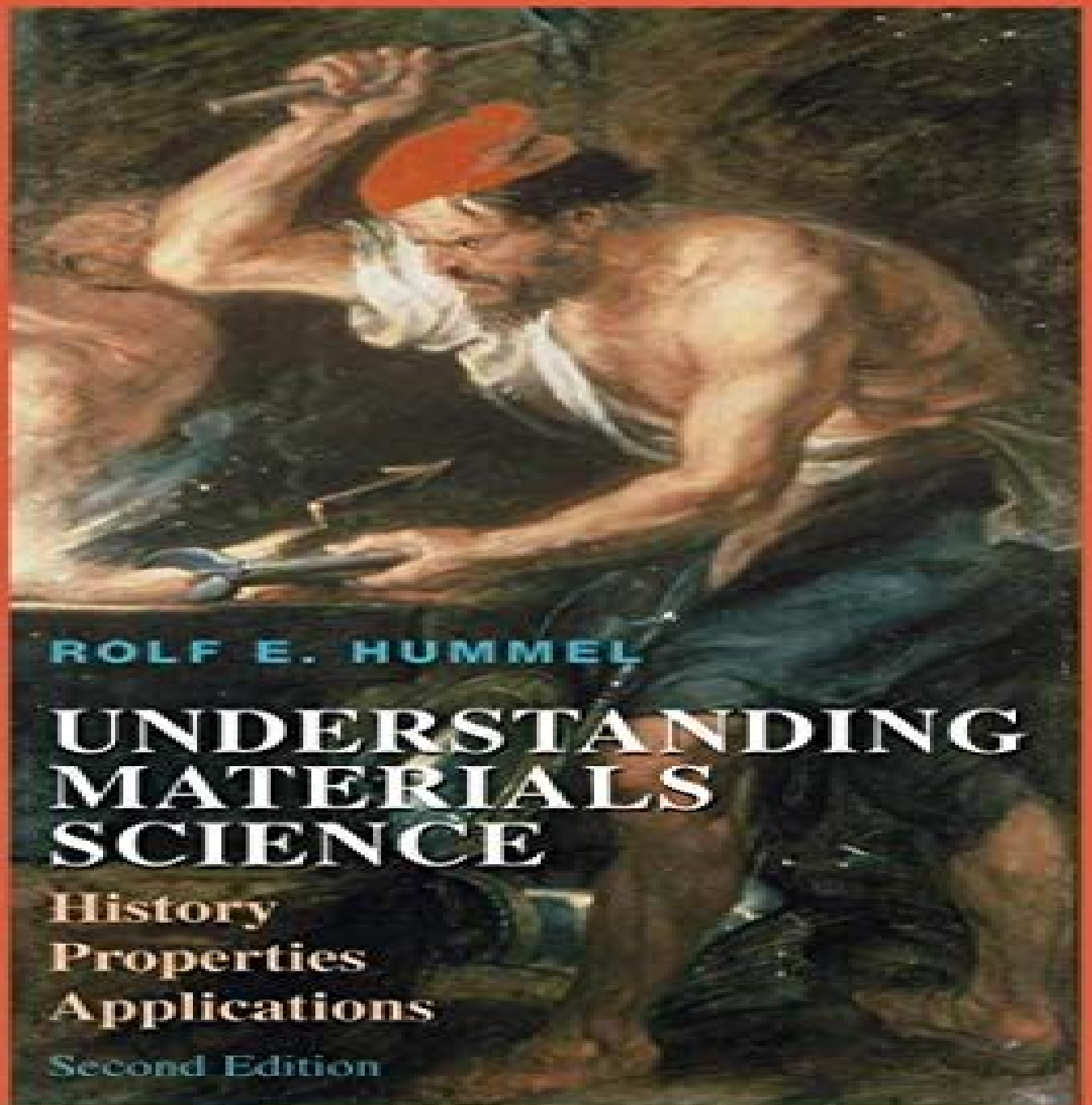




ROLF E. HUMMEL

UNDERSTANDING MATERIALS SCIENCE

History
Properties
Applications

Second Edition



Springer

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Vondrous, Alexander



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Understanding Materials Science Rolf E. Hummel, 1998 *Understanding Materials Science* Rolf E. Hummel, 2006-05-11

This introduction for engineers examines not only the physical properties of materials but also their history uses development and some of the implications of resource depletion and materials substitutions *Understanding Materials Science* Rolf E.

Hummel, 2013-06-29 It is a challenging endeavor to trace the properties and the development of materials in the light of the history of civilization Materials such as metals alloys ceramics glass fibers and so on have been used by mankind for millennia Actually materials have shaped entire civilizations They have been considered of such importance that historians and other scholars have named certain ancient periods after the material which was pre dominantly utilized at that

respective time Examples are the Stone Age the Bronze Age and the Iron Age As time progressed the materials became increasingly sophisticated Their properties were successively altered by man to suit ever changing needs We cannot but regard with utmost respect the accomplishments of men and women who lived millennia ago and who were capable of smelting shaping and improving the properties of materials Typical courses on world history expose students mainly to the description of major wars the time span important rulers have reigned and to the formation expansion and downfall of world empires Very little is generally said about the people who lived and toiled in ancient times and about the evolution of civilizations This book traces the utilization properties and production techniques of materials from the Stone Age via the Bronze Age and the Iron Age up to modern times *Understanding Materials Science* Alexandar Borydyuk, 2013-04 This book helps

readers understand materials science **Physical Properties of Materials, Second Edition** Mary Anne White, 2011-06-28

Designed for advanced undergraduate students *Physical Properties of Materials Second Edition* establishes the principles that control the optical thermal electronic magnetic and mechanical properties of materials Using an atomic and molecular approach this introduction to materials science offers students a wide ranging survey of the field and a basis to understand future materials The author incorporates comments on applications of materials science extensive references to the contemporary and classic literature and problems at the end of each chapter In addition unique tutorials allow students to apply the principles to understand applications such as photocopying magnetic devices fiber optics and more This fully revised and updated second edition presents a discussion of materials sustainability a description of crystalline structures and discussion of current and recent developments including graphene carbon nanotubes nanocomposites magnetocaloric effect and spintronics Along with a new capstone tutorial on the materials science of cymbals this edition contains more than 60 new end of chapter problems bringing the total to 300 problems Web Resource The book's companion website www.physicalpropertiesofmaterials.com provides updates to the further reading sections links to relevant movies and podcasts for each chapter video demonstrations and additional problems It also offers sources of demonstration materials for lectures and PowerPoint slides of figures from the book More information can be found on a recent press release describing the book and

the website **Understanding Materials Science, 2E** Hummel, 2005-01-01 *Environmental Science and Technology* Stanley E. Manahan, 2006-10-20 Formally established by the EPA nearly 15 years ago the concept of green chemistry is beginning to come of age Although several books cover green chemistry and chemical engineering none of them transfer green principles to science and technology in general and their impact on the future Defining industrial ecology Environmental Science and Tec

Grain growth behavior and efficient large scale simulations of recrystallization with the phase-field method Vondrous, Alexander, 2014-12-15 This book summarizes the found insights of grain growth behavior of multidimensional decomposition for regular grids to efficiently parallelize computing and how to simulate recrystallization by coupling the finite element method with the phase field method for microstructure texture analysis The frame of the book is created by the phase field method which is the tool used in this work to investigate microstructure phenomena

Introduction to Materials Science and Engineering Michael F. Ashby, Hugh Shercliff, David Cebon, 2023-08-01 Introduction to Materials Science and Engineering A Design Led Approach is ideal for a first course in materials for mechanical civil biomedical aerospace and other engineering disciplines The authors systematic method includes first analyzing and selecting properties to match materials to design through the use of real world case studies and then examining the science behind the material properties to better engage students whose jobs will be centered on design or applied industrial research As with Ashby's other leading texts the book emphasizes visual communication through material property charts and numerous schematics better illustrate the origins of properties their manipulation and fundamental limits Design led approach motivates and engages students in the study of materials science and engineering through real life case studies and illustrative applications Requires a minimum level of math necessary for a first course in Materials Science and Engineering Highly visual full color graphics facilitate understanding of materials concepts and properties Chapters on materials selection and design are integrated with chapters on materials fundamentals enabling students to see how specific fundamentals can be important to the design 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 Michael F. Ashby, Hugh Shercliff, David Cebon, 2013-10-09 Materials Third Edition is the essential materials engineering text and resource for students developing skills and understanding of materials properties and selection for engineering applications This new edition retains its design led focus and strong emphasis on visual communication while expanding its inclusion of the underlying science of materials to fully meet the needs of instructors teaching an introductory course in materials A design led approach motivates and engages students in the study of materials science and engineering through real life case studies and illustrative applications Highly visual full color graphics facilitate understanding of materials concepts and properties For instructors a solutions manual lecture slides

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