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New materials enable advances in engineering design. This book describes a procedure for material selection in mechanical design, allowing the most suitable materials for a given application to be identified from the full range of materials and section shapes available. A novel approach is adopted not found elsewhere. Materials are introduced through their properties; materials selection charts (a new development) capture the important features of all materials, allowing rapid retrieval of information and application of selection techniques. Merit indices, combined with charts, allow optimisation of the materials selection process. Sources of material property data are reviewed and approaches to their use are given. Material processing and its influence on the design are discussed. The book closes with chapters on aesthetics and industrial design. Case studies are developed as a method of illustrating the procedure and as a way of developing the ideas further.

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, online image bank, and materials selection charts for use in class handouts or lecture presentations are available at <http://textbooks.elsevier.com>. The number of worked examples has been increased by 50% while the number of standard end-of-chapter exercises in the text has been doubled. Coverage of materials and the environment has been updated with a new section on Sustainability and Sustainable Technology. The text meets the curriculum needs of a wide variety of courses in the materials and design field, including introduction to materials science and engineering, engineering materials, materials selection and processing, and materials in design. 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 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 For instructors, a solutions manual, lecture slides, online image bank and materials selection charts for use in class handouts or lecture presentations are available at <http://textbooks.elsevier.com> Links with the Cambridge Engineering Selector (CES EduPack), the powerful materials selection software. See www.grantadesign.com for information NEW TO THIS EDITION: Text and figures have been revised and updated throughout The number of worked examples has been increased by 50% The number of standard end-of-chapter exercises in the text has been doubled Coverage of materials and the environment has been updated with a new section on Sustainability and Sustainable Technology

Provides a thorough explanation of the basic properties of materials; of how these can be controlled by processing; of how materials are formed, joined and finished; and of the chain of reasoning that leads to a successful choice of material for a particular application. The materials covered are grouped into four classes: metals, ceramics, polymers and composites. Each class is studied in turn, identifying the families of materials in the class, the microstructural features, the processes or treatments used to obtain a particular structure and their design applications. The text is supplemented by practical case studies and example problems with answers, and a valuable programmed learning course on phase diagrams.

Engineering Materials 2, Fourth Edition, is one of the leading self-contained texts for more advanced students of materials science and mechanical engineering. It provides a concise introduction to the microstructures and processing of materials, and shows how these are related to the properties required in engineering design. Each chapter is designed to provide the content of one 50-minute lecture. This updated version includes new case studies, more worked examples; links to Google Earth, websites, and video clips; and a companion site with access to instructors' resources: solution manual, image bank of figures from the book, and a section of interactive materials science tutorials. Other changes include an increased emphasis on the relationship between structure, processing, and properties, and the integration of the popular tutorial on phase diagrams into the main text. The book is perfect as a stand-alone text for an advanced course in engineering materials or a second text with its companion Engineering Materials 1: An Introduction to Properties, Applications, and Design, Fourth Edition in a two-semester course or sequence. Many new or revised applications-based case studies and examples Treatment of phase diagrams integrated within the main text Increased emphasis on the relationship between structure, processing and properties, in both conventional and innovative materials Frequent worked examples - to consolidate, develop, and challenge Many new photographs and links to Google Earth, websites, and video clips Accompanying companion site with access to instructors' resources, including a suite of interactive materials science tutorials, a solutions manual, and an image bank of figures from the book

This book, from noted materials selection authority Mike Ashby, provides a structure and framework for analyzing sustainable development and the role of materials in it. The aim is to introduce ways of exploring sustainable development to readers in a way that avoids simplistic interpretations and approaches complexity in a systematic way. There is no completely "right" answer to questions of sustainable development - instead, there is a thoughtful, well-researched response that recognizes concerns of stakeholders, the conflicting priorities and the economic, legal and social aspects of a technology as well as its environmental legacy. The intent is not to offer solutions to sustainability challenges but rather to improve the quality of discussion and enable informed, balanced debate. Winner of a 2016 Most Promising New Textbook Award from the Textbook and Academic Authors Association Describes sustainable development in increasingly detailed progression, from a broad overview to specific tools and methods Six chapter length case studies on such topics as biopolymers, electric cars, bamboo, and lighting vividly illustrate the sustainable development process from a materials perspective Business and economic aspects are covered in chapters on corporate sustainability and the "circular materials economy" Support for course use includes online solutions manual and image bank

This book gives a broad introduction to the properties of materials used in engineering applications and is intended to provide a course in engineering materials for engineering students with no previous background in the subject. Engineering disasters are frequently caused by the misuse of materials and so it is vital that every engineer should understand the properties of these materials, their limitations and how to select materials which best fit the demands of his design.The chapters are arranged in groups, each group describing a particular class of properties: the Elastic Moduli; the Fracture Toughness; Resistance to Corrosion; and so forth. Each group of chapters starts by defining the property, describing how it is measured, and providing a table of data for solving problems involving the selection and use of materials. Then the basic science underlying each property is examined to provide the knowledge with which to design materials with better properties. Eachchapter group ends with a case study of practical application and each chapter ends with a list of books for further reading. To further aid the student, there are sets of examples (with answers) at the end of the book intended to consolidate or develop a particular point covered in the text. There is also a list of useful aids and demonstrations (including how to prepare them) in order to facilitate teaching of the material.

Widely adopted around the world, Engineering Materials 1 is a core materials science and engineering text for third- and fourth-year undergraduate students; it provides a broad introduction to the mechanical and environmental properties of materials used in a wide range of engineering applications. The text is deliberately concise, with each chapter designed to cover the content of one lecture. As in previous editions, chapters are arranged in groups dealing with particular classes of properties, each group covering property definitions, measurement, underlying principles, and materials selection techniques. Every group concludes with a chapter of case studies that demonstrate practical engineering problems involving materials. Engineering Materials 1, Fourth Edition is perfect as a stand-alone text for a one-semester course in engineering materials or a first text with its companion Engineering Materials 2: An Introduction to Microstructures and Processing, in a two-semester course or sequence. Many new design case studies and design-based examples Revised and expanded treatments of stress-strain, fatigue, creep, and corrosion Additional worked examples-to consolidate, develop, and challenge Compendia of results for elastic beams, plastic moments, and stress intensity factors Many new photographs and links to Google Earth, websites, and video clips Accompanying companion site with access to instructors' resources, including a suite of interactive materials science tutorials, a solutions manual, and an image bank of figures from the book

Addressing the growing global concern for sustainable engineering, Materials and the Environment, 2e is the only book devoted exclusively to the environmental aspects of materials. It explains the ways in which we depend on and use materials and the consequences these have, and it introduces methods for thinking about and designing with materials within the context of minimizing environmental impact. Along with its noted in-depth coverage of material consumption, the material life-cycle, selection strategies, and legislative aspects, the second edition includes new case studies, important new chapters on Materials for Low Carbon Power and Material

Efficiency, all illustrated by in-text examples and expanded exercises. This book is intended for instructors and students as well as materials engineers and product designers who need to consider the environmental implications of materials in their designs. Introduces methods and tools for thinking about and designing with materials within the context of their role in products and the environmental consequences Contains numerous case studies showing how the methods discussed in the book can be applied to real-world situations Includes full-color data sheets for 40 of the most widely used materials, featuring such environmentally relevant information as their annual production and reserves, embodied energy and process energies, carbon footprints, and recycling data New to this edition: New chapter of Case Studies of Eco-audits illustrating the rapid audit method New chapter on Materials for Low Carbon Power examines the consequences for materials supply of a major shift from fossil-fuel based power to power from renewables New chapter exploring Material Efficiency, or design and management for manufacture to provide the services we need with the least production of materials Recent news-clips from the world press that help place materials issues into a broader context. are incorporated into all chapters End-of-chapter exercises have been greatly expanded The datasheets of Chapter 15 have been updated and expanded to include natural and man-made fibers

Widely adopted around the world, this is a core materials science and mechanical engineering text. Engineering Materials 1 gives a broad introduction to the properties of materials used in engineering applications. With each chapter corresponding to one lecture, it provides a complete introductory course in engineering materials for students with no previous background in the subject. Ashby & Jones have an established, successful track record in developing understanding of the properties of materials and how they perform in reality. One of the best-selling materials properties texts; well known, well established and well liked New student friendly format, with enhanced pedagogy including many more case studies, worked examples, and student questions World-renowned author team

How could nanotechnology not perk the interest of any designer, engineer or architect? Exploring the intriguing new approaches to design that nanotechnologies offer, Nanomaterials, Nanotechnologies and Design is set against the sometimes fantastic sounding potential of this technology. Nanotechnology offers product engineers, designers, architects and consumers a vastly enhanced palette of materials and properties, ranging from the profound to the superficial. It is for engineering and design students and professionals who need to understand enough about the subject to apply it with real meaning to their own work. * World-renowned author team address the hot-topic of nanotechnology * The first book to address and explore the impacts and opportunities of nanotech for mainstream designers, engineers and architects * Full colour production and excellent design: guaranteed to appeal to everyone concerned with good design and the use of new materials

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