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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.

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](http://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.

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.

A text which deals with the basic principles of materials science and technology in a simple, yet thorough manner. This edition includes more worked examples and more detailed information on certain aspects of materials science. An ELBS/LPBB edition is available.

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Engineering Materials 2 is a best-selling stand-alone text in its own right for more advanced students of materials science and mechanical engineering, and is the follow-up to its renowned companion text, Engineering Materials 1: An Introduction to Properties, Applications & Design. This book develops a detailed understanding of the fundamental properties of engineering materials, how they are controlled by processing, formed, joined and finished, and how all of these factors influence the selection and design of materials in real-world engineering applications. \* One of the best-selling materials properties texts; companion text to Ashby & Jones' 'Engineering Materials 1: An Introduction to their Properties and Applications' book \* New student friendly format, with enhanced pedagogy including more case studies, worked examples, student questions and a full instructor's manual \* World-renowned author team

This third edition of what has become a modern classic presents a lively overview of Materials Science which is ideal for students of Structural Engineering. It contains chapters on the structure of engineering materials, the determination of mechanical properties, metals and alloys, glasses and ceramics, organic polymeric materials and composite materials. It contains a section with thought-provoking questions as well as a series of useful appendices. Tabulated data in the body of the text, and the appendices, have been selected to increase the value of Materials for engineering as a permanent source of reference to readers throughout their professional lives. The second edition was awarded Choice's Outstanding Academic Title award in 2003. This third edition includes new information on emerging topics and updated reading lists.

Discover why materials behave as the way they do with ESSENTIALS OF MATERIALS SCIENCE AND ENGINEERING, 4TH Edition. Materials engineering explains how to process materials to suit specific engineering designs. Rather than simply memorizing facts or lumping materials into broad categories, you gain an understanding of the whys and hows behind materials science and engineering. This knowledge of materials science provides an important a framework for comprehending the principles used to engineer materials. Detailed solutions and meaningful examples assist in learning principles while numerous end-of-chapter problems offer significant practice. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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.

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

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