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Materials and the Environment is the first book devoted solely to the environmental aspects of materials and their selection, production, use and disposal. Written by Mike Ashby, one of the world's foremost materials authorities, the book introduces methods and tools for thinking about and designing with materials within the context of their role in products and the environmental consequences.

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Materials and the Environment: Eco-Informed Material Choice, Second Edition, is the first book devoted solely to the environmental aspects of materials and their selection, production, use and disposal, by one of the world's foremost materials authorities. It explores human dependence on materials and its environmental consequences and provides perspective, background, methods, and data for thinking about and designing with materials to minimize their environmental impact.

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Materials and the Environment: Eco-informed Material ...

Ashby, M. F. Materials and the environment : eco-informed material choice / Michael F. Ashby. □ 2nd ed. p. cm. ISBN 978-0-12-385971-6 1.

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Fig. 1 □ Schematic Ashby's chart [1] An Ashby's graphical representations provide an overview, but obviously, the number of materials selected is limited. The CES -Cambridge Engineering Selector ...

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Royal Society Research Professor Emeritus at Cambridge University and Former Visiting Professor of Design at the Royal College of Art, London, UK
Mike Ashby is sole or lead author of several of Elsevier's top selling engineering textbooks, including Materials and Design: The Art and Science of Material Selection in Product Design, Materials Selection in Mechanical Design, Materials and the Environment, and Materials: Engineering, Science, Processing and Design.

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Solutions environmental consequences and provides perspective, background, methods, and data for thinking about and designing with materials to minimize their environmental impact. Organized into 15 chapters, this new edition looks at the history of our increasing dependence on materials and energy. It explains where materials come from and how they are used in a variety of industries, along with their life cycle and their relationship to energy and carbon. It also examines controls and economic instruments that hinder the use of engineering materials, considers sustainability from a materials perspective, and highlights the importance of low-carbon power and material efficiency. Furthermore, it discusses the mechanical, thermal, and electrical properties of engineering metals, polymers, ceramics, composites, and natural materials in relation to environmental issues. The

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Materials and the Environment is the first book devoted solely to the environmental aspects of materials and their selection, production, use and disposal. Written by Mike Ashby, one of the world's foremost materials authorities, the book introduces methods and tools for thinking about and designing with materials within the context of their role in products and the environmental consequences. The tools developed in the text are implemented in the CES EduPack Eco Design Edition software and new Eco Audit Tool available from Granta Design. The book provides in-depth coverage of such topics as material consumption and its drivers; the material lifecycle; eco-informed material selection; renewable materials and sustainability; legislative and regulatory aspects; and eco-profiles of

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Solutions more than 40 widely used materials. It contains numerous case studies showing how the methods discussed in the book can be applied to real-world situations. It includes full-color data-sheets for many of the most commonly used materials, featuring such environmentally relevant information as their annual production and reserves, embodied energy and process energies, carbon footprints, and recycling data. This book will appeal to instructors of materials science and selection courses, as well as to instructors of industrial and product design courses; students of engineering, materials science and industrial/product design; materials and industrial engineers; and product designers. * The first book devoted solely to the environmental aspects of materials and their selection, production, use and disposal, by noted materials authority Mike Ashby. * Introduces methods and

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Written by Mike Ashby, one of the world's foremost materials authorities, *Materials and the Environment: Eco-Informed Material Choice*, Third Edition continues

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Solutions to be the first and only textbook devoted solely to the environmental aspects of materials and their selection, production, use and disposal, It explores human dependence on materials and its environmental consequences and provides perspective, background, methods, and data for thinking about and designing with materials to minimize their environmental impact. Organized into 15 chapters, *Materials and the Environment* looks at the history of our increasing dependence on materials and energy. It explains where materials come from and how they are used in a variety of industries, along with their life cycle and their relationship to energy and carbon. It also examines controls and economic instruments that hinder the use of engineering materials, considers sustainability from a materials perspective, and highlights the importance of low-carbon power and material

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efficiency. Furthermore, it discusses the mechanical, thermal, and electrical properties of engineering metals, polymers, ceramics, composites, and natural materials in relation to environmental issues. The third edition features improved clarity and logic-flow, revised figures, examples and problems, and updated coverage of many of the book's topics, including bio-based and bio-derived materials, natural and man-made fibers, and material criticality. This book is intended for instructors and students of Engineering, Materials Science and Industrial/Product Design, as well as for 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

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Solutions numerous case studies showing how the methods discussed in the book can be applied to real-world situations Includes full-color data sheets for dozens 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

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

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Solutions 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

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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

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Solutions 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

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Solutions 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

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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

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Solutions 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

'Materials and Design' offers an accessible and systematic approach to the selection of materials and the ways in which they can be used. The book is aimed at the industrial designer who may have limited technical support.

Bestselling author Ashby guides readers through the process of selecting materials on the basis of their design suitability. Many excellent attribute RmapsS are included, which enable complex comparative information to be readily grasped. Full-color photos and illustrations throughout aid the understanding of

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