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Engineering Materials 1-Michael F. Ashby 2012 This text gives a broad introduction to the properties of materials used in engineering applications, and is intended to provide a course in engineering materials for students with no previous background in the subject. Engineering Materials 1-Michael F. Ashby 1996 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 ismeasured, 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 developa 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. Engineering Materials 1-David R.H. Jones 2005-04-12 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 Engineering Materials 2-Michael F. Ashby 2014-06-28 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 Volume 2-D. R. H. Jones 2013-10-22 Materials are evolving faster today than at any time in history. As a consequence the engineer must be more aware of materials and their potential than ever before. In comparing the properties of competing materials with precision involves an understanding of the basic properties of materials, how they are controlled by processing, formed, joined and finished and of the chain of reasoning that leads to a successful choice. This book will provide the reader with this understanding. Materials are grouped into four classes: Metals, Ceramics, Polymers and Composites, and each are examined in turn. The chapters are arranged in groups, with a group of chapters to describe each of the four classes of materials. Each group first of all introduces the major families of materials that go to make up each materials class. The main microstructural features of the class are then outlined and the reader is shown how to process or treat them to get the structures (properties) that are wanted. Each group of chapters is illustrated by Case Studies designed to help the reader understand the basic material. This book has been written as a second level course for engineering students. 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. Unique approach to the subject World-renowned author team Improved layout and format Engineering Materials 2-David R.H. Jones 2012-11-09 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 Materials-Michael F. Ashby 2009-11-20 Materials: Engineering, Science, Processing and Design, Second Edition, was developed to guide material selection and understanding for a wide spectrum of engineering courses. The approach is systematic, leading from design requirements to a prescription for optimized material choice. This book presents the properties of materials, their origins, and the way they enter engineering design. The book begins by introducing some of the design-limiting properties: physical properties, mechanical properties, and functional properties. It then turns to the materials themselves, covering the families, the classes, and the members. It identifies six broad families of materials for design: metals, ceramics, glasses, polymers, elastomers, and hybrids that combine the properties of two or more of the others. The book presents a design-led strategy for selecting materials and processes. It explains material properties such as yield and plasticity, and presents elastic solutions for common modes of loading. The remaining chapters cover topics such as the causes and prevention of material failure; cyclic loading; fail-safe design; and the processing of materials. * 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 * Links with the Cambridge Engineering Selector (CES EduPack), the powerful materials selection software. See www.grantadesign.com for information NEW TO THIS EDITION: "Guided Learning" sections on crystallography, phase diagrams and phase transformations enhance students' learning of these key foundation topics Revised and expanded chapters on durability, and processing for materials properties More than 50 new worked examples placed throughout the text Essentials of Materials Science & Engineering-Donald R. Askeland 2008-04-23 This text provides students with a solid understanding of the relationship between the structure, processing, and properties of materials. Authors Donald Askeland and Pradeep Fulay teach the fundamental concepts of atomic structure and materials behaviors and clearly link them to the materials issues that students will have to deal with when they enter the industry or graduate school (e.g. design of structures, selection of materials, or materials failures). While presenting fundamental concepts and linking them to practical applications, the authors emphasize the necessary basics without overwhelming the students with too much of the underlying chemistry or physics. The book covers fundamentals in an integrated approach that emphasizes applications of new technologies that engineered materials enable. New and interdisciplinary developments in materials field such as nanomaterials, smart materials, micro-electro-mechanical (MEMS) systems, and biomaterials are also discussed. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Engineering Materials 3-David Rayner Hunkin Jones 1993 Aims to provide undergraduate and graduate students with a source of practical information on the design implications of material properties, building on the basic material contained in "Engineering Materials 1 and 2". The text presents a series of case studies drawn from real situations. Materials Selection in Mechanical Design-M. F. Ashby 1992-01-01 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.

Biomaterials Science-William R Wagner 2020-05-23 The revised edition of the renowned and bestselling title is the most comprehensive single text on all aspects of biomaterials science from principles to applications. Biomaterials Science, fourth edition, provides a balanced, insightful approach to both the learning of the science and technology of biomaterials and acts as the key reference for practitioners who are involved in the applications of materials in medicine. This new edition incorporates key updates to reflect the latest relevant research in the field, particularly in the applications section, which includes the latest in topics such as nanotechnology, robotic implantation, and biomaterials utilized in cancer research detection and therapy. Other additions include regenerative engineering, 3D printing, personalized medicine and organs on a chip. Translation from the lab to commercial products is emphasized with new content dedicated to medical device development, global issues related to translation, and issues of quality assurance and reimbursement. In response to customer feedback, the new edition also features consolidation of redundant material to ensure clarity and focus. Biomaterials Science, 4th edition is an important update to the best-selling text, vital to the biomaterials' community. The most comprehensive coverage of principles and applications of all classes of biomaterials Edited and contributed by the best-known figures in the biomaterials field today; fully endorsed and supported by the Society for Biomaterials Fully revised and updated to address issues of translation, nanotechnology, additive manufacturing, organs on chip, precision medicine and much more. Online chapter exercises available for each chapter Introduction to Engineering Materials-Vernon John 1992-03-31 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. CRC Materials Science and Engineering Handbook-James F. Shackelford 2016-04-21 CRC Materials Science and Engineering Handbook provides a convenient, single-volume source for physical and chemical property data on a wide range of engineering materials. As with the first three editions, this Fourth Edition contains information verified by major professional associations such as ASM International and the American Ceramic Society Engineering Materials Science-Milton Ohring 1995 Milton Ohring's Engineering Materials Science integrates the scientific nature and modern applications of all classes of engineering materials. This comprehensive, introductory textbook will provide undergraduate engineering students with the fundamental background needed to understand the science of structure-property relationships, as well as address the engineering concerns of materials selection in design, processing materials into useful products, andhow material degrade and fail in service. Specific topics include: physical and electronic structure; thermodynamics and kinetics; processing; mechanical, electrical, magnetic, and optical properties; degradation; and failure and reliability. The book offers superior coverage of electrical, optical, and magnetic materials than competing text.The author has taught introductory courses in material science and engineering both in academia and industry (AT&T Bell Laboratories) and has also written the well-received book, The Material Science of Thin Films (Academic Press). Manufacturing Processes for Engineering Materials-Kalpakjian 2009-02 Engineering Tribology-Gwidon Stachowiak 2011-03-31 As with the previous edition, the third edition of Engineering Tribology provides a thorough understanding of friction and wear using technologies such as lubrication and special materials. Tribology is a complex topic with its own terminology and specialized concepts, yet is vitally important throughout all engineering disciplines, including mechanical design, aerodynamics, fluid dynamics and biomedical engineering. This edition includes updated material on the hydrodynamic aspects of tribology as well as new advances in the field of biotribology, with a focus throughout on the engineering applications of tribology. This book offers an extensive range if illustrations which communicate the basic concepts of tribology in engineering better than text alone. All chapters include an extensive list of references and citations to facilitate further in-depth research and thorough navigation through particular subjects covered in each chapter. * Includes newly developed end-of-chapter problems * Provides a comprehensive overview of the mechanisms of wear, lubrication and friction in an accessible manner designed to aid non-specialists. * Gives a reader-friendly approach to the subject using a graphic illustrative method to break down the typically complex problems associated with tribology. An Introduction to Electrical Engineering Materials-C S Indulkar 2008-01-01 A Textbook for the students of B.Sc.(Engg.), B.E., B.Tech., AMIE and Diploma Courses. A new chapter on ""Semiconductor Fabrication Technology and Miscellaneous Semiconductor Devices"" had been included and additional self-assessment questions with answers and additional worked examples had been provided at the end of the BOOK. Principles of Composite Material Mechanics-Ronald F. Gibson 2016-04-05 Principles of Composite Material Mechanics covers a unique blend of classical and contemporary mechanics of composites technologies. It presents analytical approaches ranging from the elementary mechanics of materials to more advanced elasticity and finite element numerical methods, discusses novel materials such as nanocomposites and hybrid multiscale composites, and examines the hydrothermal, viscoelastic, and dynamic behavior of composites. This fully revised and expanded Fourth Edition of the popular bestseller reflects the current state of the art, fresh insight gleaned from the author's ongoing composites research, and pedagogical improvements based on feedback from students, colleagues, and the author's own course notes. New to the Fourth Edition New worked-out examples and homework problems are added in most chapters, bringing the grand total to 95 worked-out examples (a 19% increase) and 212 homework problems (a 12% increase) Worked-out example problems and homework problems are now integrated within the chapters, making it clear to which section each example problem and homework problem relates Answers to selected homework problems are featured in the back of the book Principles of Composite Material Mechanics, Fourth Edition provides a solid foundation upon which students can begin work in composite materials science and engineering. A complete solutions manual is included with qualifying course adoption.

Deformation and Fracture Mechanics of Engineering Materials-Richard W. Hertzberg 1996 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 Technology-James A. Jacobs 2005 Engineering Materials Technology continues to cover basic concepts in materials science, engineering and technology dealing with traditional as well as advanced materials. In addition to coverage of metals, polymers, ceramics and composites, the book offers introductions to emerging technologies such as micro/nano technology, environmentally friendly processes and products, smart and morphing materials and trends in surface science and engineering. Industrial and apprentice trainers. Materials for Civil and Construction Engineers-Michael S. Mamlouk 2013 For courses in Civil Engineering Materials, Construction Materials, and Construction Methods and Materials offered in Civil, Environmental, or Construction engineering departments. This introduction gives students a basic understanding of the material selection process and the behavior of materials - a fundamental requirement for all civil and construction engineers performing design, construction, and maintenance. The authors cover the various materials used by civil and construction engineers in one useful reference, limiting the vast amount of information available to the introductory level, concentrating on current practices, and extracting information that is relevant to the general education of civil and construction engineers. A large number of experiments, figures, sample problems, test methods, and homework problems gives students opportunity for practice and review. Structure and Properties of Engineering Materials-Daniel P. Henkel 2002 Henkel & Pense, STRUCTURE & PROPERTIES OF ENGINEERING MATERIALS 5/e provides an updated look at various engineering materials, including metals, metal alloys, polymers, ceramics and composites. Best suited for a second-level materials course, or a first course focusing on structures & properties, the new edition outlines and describes how structural aspects of materials determine their use in engineering. Engineering Materials Technology-William Bolton 2013-10-22 Engineering Materials Technology, Second Edition discusses the underlying principles of materials selection in mechanical and production engineering. The book is comprised of 20 chapters that are organized into five parts. The text first covers the structure of materials, such as metals, alloys, and non-metals. The second part deals with the properties of materials, which include fracture, fatigue, and creep. The third and fourth parts discuss the characteristics of metals and non-metals, respectively. The last part deals with the selection process; this part takes into consideration the various properties of materials and the processes it goes through. The book will be of great use to students and practitioners of mechanical and production engineering.

Modern Ceramic Engineering-David W. Richerson 1982 Cellular Materials in Nature and Medicine-Lorna J. Gibson 2010-09-09 Describes the structure and mechanics of a wide range of cellular materials in botany, zoology, and medicine. Composite Materials-Deborah D. L. Chung 2010-04-03 The first edition of "Composite Materials" introduced a new way of looking at composite materials. This second edition expands the book's scope to emphasize application-driven and process-oriented materials development. The approach is vibrant yet functional. Composite Materials-Krishan K. Cha 2013-05-03 The third edition of Krishan Chawla's widely used textbook, Composite Materials, offers integrated and completely up-to-date coverage of composite materials. The book focuses on the triad of processing, structure, and properties, while providing a well-balanced treatment of the materials science and mechanics of composites. In this edition of Composite Materials, revised and updated throughout, increasing use of composites in industry (especially aerospace and energy) and new developments in the field are highlighted. There is a new chapter on non-conventional composites, which covers polymer, metal and ceramic matrix nanocomposites, self-healing composites, self-reinforced composites, biocomposites and laminates made of metals and polymer matrix composites. The third edition, featuring all figures in color, also includes new solved examples and problems as well as increased coverage of: Carbon/carbon brakes. Composites for civilian aircraft and jet engines. Second generation high-temperature superconducting composites. Composites for use in windmill blades. WC/metal particulate composites. Examples of practical applications in various fields are given throughout the book, and extensive references to the literature are provided. The book is intended for use in graduate and upper-division undergraduate courses, and as a reference for the practicing engineers and researchers in industry and academia.

Newnes Engineering Materials Pocket Book-William Bolton 2016-01-29 Newnes Engineering Materials Pocket Book is a guidebook that provides a concise discussion on the various materials used in engineering. The coverage of the book includes ferrous and non-ferrous metals, polymeric materials, and ceramics and composites. The text first presents the terminology, and then proceeds to covering the test methods. The next nine chapters discuss the properties of various engineering materials, including copper, magnesium, nickel, and titanium. Next, the book presents the comparative properties table and materials index. The book will be of great use to both students and practitioners of engineering, especially materials engineering. Mechanical Behavior of Materials-Marc André Meyers 2008-11-06 A balanced mechanics-materials approach and coverage of the latest developments in biomaterials and electronic materials, the new edition of this popular text is the most thorough and modern book available for upper-level undergraduate courses on the mechanical behavior of materials. To ensure that the student gains a thorough understanding the authors present the fundamental mechanisms that operate at micro- and nano-meter level across a wide-range of materials, in a way that is mathematically simple and requires no extensive knowledge of materials. This integrated approach provides a conceptual presentation that shows how the microstructure of a material controls its mechanical behavior, and this is reinforced through extensive use of micrographs and illustrations. New worked examples and exercises help the student test their understanding. Further resources for this title, including lecture slides of select illustrations and solutions for exercises, are available online at www.cambridge.org/97800521866758.

Biological Performance of Materials-Jonathan Black 2005-12-20 Bioengineers need a thorough grounding in biocompatibility - the biological performance of materials. Until now, there were no publications suitable for a neophyte in the field; prior publications were either not comprehensive or focused on rather narrow interests. Drawing on the author's 35 years of experience as a teacher, researcher, and consultant Handbook of Fillers-George Wypych 2016-02-11 Handbook of Fillers, Fourth Edition, discusses the rapidly advancing field of fillers, the substances added to plastics and composites that add value by improving and modifying the properties of materials and reducing costs. This new edition is an essential reference for engineers and scientists using fillers in a range of materials, including plastics, rubber, adhesives, and paper. The book is designed to be a comprehensive reference for both experienced practitioners and those new to fields where fillers are used. It covers available fillers and their properties, their effect on filled materials, such as mechanical properties, rheology, morphology, flammability, and recycling, and their use in practical applications. In particular, this new edition provides extensive coverage of nanofillers, along with the practical information needed to deploy these new technologies in the real world. The book includes the latest advances in filler technology, with consolidated technical information from over 4,000 research papers, data from over 160 filler and equipment manufacturers, and a thorough review of the patent literature. Provides up-to-date, applicable information on the use of fillers in plastics, rubber, adhesives, and paper Presents comprehensive coverage on the effect of fillers on materials, including their mechanical properties, their effects on material rheology, the morphology of the filled system, material durability, and more Includes essential guidance on the industrial scale use of fillers and their transportation, storage, processing, equipment, quality control, and health and safety considerations Materials for Engineers and Technicians-R. A. Higgins 2006-10-19 This renowned text has provided many thousands of students with an easily accessible introduction to the wide ranging subject area of materials engineering and manufacturing processes for over thirty years. Avoiding the excessive technical jargon and mathematical complexity so often found in textbooks for this subject, and retaining the practical down-to-earth approach for which this book is noted, Materials for Engineers and Technicians is now thoroughly updated and fully in line with current syllabus requirements. Offering a comprehensive guide to materials used by engineers, their applications and selection in a single volume, the fourth edition focuses on applications and selection - reflecting the increased emphasis on this aspect of materials engineering now seen within current vocational and university courses. Materials properties and relevance to particular uses are addressed in detail from the outset, with all subsequent chapters linking back to these essential concepts. Detailed discussion of examples of materials, and additional applications of processes have been incorporated throughout the text, with expanded sections addressing the causes of failure as this relates to material selection. Updated sections in the fourth edition provide a wider ranging discussion of titanium, printed-circuit-board materials and production, silicon chip production, and the applications and forms of modern composite materials. This new edition has been matched closely to the relevant units of the BTEC Higher National Engineering program, as well as catering fully for the requirements of a Level 3 audience. Students of BTEC Nationals will find that the new edition structure covers all the essential topics required for their courses in the early chapters (chapters 1 - 8). Those students following higher level qualifications (HNC / D Engineering, and first year undergraduate Engineering Materials modules within Mechanical, Manufacturing Systems and also Electrical & Electronic Engineering degree courses) will find additional more advanced topics are addressed in the second half of the book. In addition to meeting the requirements of vocational and undergraduate engineering syllabuses, this text will also prove a valuable desktop reference for professional engineers working in product design, who require a quick source of information on materials and manufacturing processes. Mechanical Engineers' Handbook-Myer Kutz 2005-11-01 Mechanical Engineers' Handbook, Third Edition, Four Volume Set provides a single source for all critical information needed by mechanical engineers in the diverse industries and job functions they find themselves. No single engineer can be a specialist in all areas that they are called on to work and the handbook provides a quick guide to specialized areas so that the engineer can know the basics and where to go for further reading. Nanomaterials, Nanotechnologies and Design-Daniel L. Schodek 2009-03-24 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

Mechanical Engineering Principles-John John Bird 2012-05-04 "Mechanical Engineering Principles offers a student-friendly introduction to core engineering topics that does not assume any previous background in engineering studies, and as such can act as a core textbook for several engineering courses. Bird and Ross introduce mechanical principles and technology through examples and applications rather than theory. This approach enables students to develop a sound understanding of the engineering principles and their use in practice. Theoretical concepts are supported by over 600 problems and 400 worked answers. The new edition will match up to the latest BTEC National specifications and can also be used on mechanical engineering courses from Levels 2 to 4"--Plastics Engineering-R.J. Crawford 2013-10-22 The first textbook to cover both properties and processing of reinforced and unreinforced plastics to this level. It assumes no prior knowledge of plastics and emphasizes the practical aspects of the subject. In this second edition over half the book has been rewritten and the remainder has been updated and reorganized. Early chapters give an introduction to the types of plastics which are currently available and describe how a designer goes about selection of a plastic for a particular application. Later chapters lead the reader into more advanced aspects of mechanical design and analysis of polymer melt flow. All techniques developed are illustrated by numerous worked examples, and several problems are given at the end of each chapter - the solutions to which form an Appendix.

Manufacturing Processes-Serope Kalpakjian 1984-01-01 Conjugated Polymers-John R. Reynolds 2019-03-25 This book covers properties, processing, and applications of conducting polymers. It discusses properties and characterization, including photophysics and transport. It then moves to processing and morphology of conducting polymers, covering such topics as printing, thermal processing, morphology evolution, conducting polymer composites, thin films Conjugated Polymers-John R. Reynolds 2019-03-27 The Fourth Edition of the Handbook of Conducting Polymers, Two-Volume Set continues to be the definitive resource on the topic of conducting polymers. Completely updated with an extensive list of authors that draws on past and new contributors, the book takes into account the significant developments both in fundamental understanding and applications since publication of the previous edition. One of two volumes comprising the comprehensive Handbook, Conjugated Polymers: Perspective, Theory, and New Materials features new chapters on the fundamental theory and new materials involved in conducting polymers. It discusses the history of physics and chemistry of these materials and the theory behind them. Finally, it details polymer and materials chemistry including such topics as conjugated block copolymers, metal-containing conjugated polymers, and continuous flow processing. Aimed at researchers, advanced students, and industry professionals working in materials science and engineering, this book covers fundamentals, recent progress, and new materials involved in conducting polymers and includes a wide-ranging listing of comprehensive chapters authored by an international team of experts. Sustainable Construction-Charles J. Kibert 2016-03-29 The leading green building reference, updated with the latest advances in the field Sustainable Construction is the leading reference for the design, construction, and operation of high performance green buildings. With broad coverage including architecture, engineering, and construction, this book nevertheless delivers detailed information on all aspects of the green building process, from materials selection to building systems and more. This new fourth edition has been updated to reflect the latest codes and standards, including LEED v4, and includes new coverage of carbon accounting. The discussion has been updated to align with the current thinking on economics, climate change, net zero buildings, and more, with contributions by leaders in the field that illustrate the most recent shifts in thinking and practice. Ancillary materials including an instructor's manual and PowerPoint presentations for each chapter help bring this clear and up-to-date information into the classroom, making this book a valuable reference for working construction professionals. Also, Interactive graphics found throughout the course help activate the content and highlight key concepts for students. Sustainable construction has gone mainstream, and will one day be the industry norm. This book provides a comprehensive reference to all aspects of a project to show you how green building concepts and principles apply throughout the design and construction process. Get up to date on the latest green building codes and standards Learn about the newest technology in green building materials Adopt the best practices in procurement and delivery systems Apply sustainability concepts to all aspects of construction and design Green buildings operate at a very high level of efficiency, which is made possible only by careful consideration every step of the way. Appropriate land use, landscaping, construction materials, siting, water use, and more all play a role in a structure's ultimate carbon footprint. Sustainable Construction provides clear guidance for all aspects of green building, including the most recent advances and the latest technology.

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