

Text Book Of Material Science And Metallurgy By Khanna

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

Materials, Fourth Edition: Engineering, Science, Processing and Design is the essential materials engineering text for students who need to develop an understanding of materials properties and selection for engineering applications. Taking a unique, design-led approach that is broader in scope than other texts, the book 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 Behavior of Materials. This new edition retains its design-led focus and strong emphasis on visual communication while also expanding its coverage of material properties, in particular, non-

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metals. Provides a design-led approach that 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 an understanding of materials concepts and properties Presents chapters on materials selection, design and fundamentals, thus helping students understand specific fundamentals in the design process Includes a solutions manual, lecture slides, online image bank and materials selection charts for use in class handouts or lecture presentations

Two new chapters on eneral Themodynamic Relations and Variable Specific Heat have been Added.The mistake which had crept in have been eliminated.we wish to express our sincere thanks to numerous professors and students,both at home and abroad,for sending their valuable suggestions and also for recommending the book to their students and friends.

Kurzweilig geschrieben, didaktisch überzeugend sowie fachlich umfassend und hochkompetent: Diesen Qualitäten verdanken die beiden Bände des Ashby/Jones schon seit Jahren ihre führende Stellung unter den englischsprachigen Lehrbüchern der Werkstoffkunde. Mit profundem Fachwissen, stets verständlichen, auf der Erfahrungswelt junger Studenten aufsattelnden Erklärungen, vielen Fallbeispielen zu alltäglichen wie technischen Werkstoffanwendungen und den zahlreichen Übungsaufgaben führt der Ashby/Jones Studenten wie im Berufsleben stehende Ingenieure gleichermaßen zuverlässig in die gesamte Bandbreite der Werkstoffe ein. Aus dem Inhalt des vorliegenden ersten Bandes: - Die elastischen Konstanten - Atomare Bindungen und Atomanordnung - Festigkeit und Fließverhalten - Instabile Rissausbreitung, Spröbruch und Zähigkeit - Ermüdung - Kriechverhalten - Oxidation und Korrosion - Reibung, Abrieb und Verschleiß - Thermische

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Werkstoffeigenschaften - Werkstoffgerechtes Konstruieren Highlights: - Detaillierte Fallstudien, Beispiele und Übungsaufgaben - Ausführliche Hinweise zu Konstruktion und Anwendungen

Verwandte Titel: Ashby/Jones, Werkstoffe 2: Metalle, Keramiken und Gläser, Kunststoffe und Verbundwerkstoffe. Deutsche Ausgabe der dritten Auflage des englischen Originals, 2006

Ashby, Materials Selection in Mechanical Design: Das Original mit Übersetzungshilfen. Easy-Reading-Ausgabe der dritten Auflage des englischen Originals, 2006

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,

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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 SCIENCE AND ENGINEERING PROPERTIES is primarily aimed at mechanical and aerospace engineering students, building on actual science fundamentals before building them into engineering applications. Even though the book focuses on mechanical properties of materials, it also includes a chapter on materials selection, making it extremely useful to civil engineers as well. The purpose of this textbook is to provide students with a materials science and engineering text that offers a sufficient scientific basis that engineering properties of materials can be understood by students. In addition to the introductory chapters on materials science, there are chapters on mechanical properties, how to make strong solids, mechanical properties of engineering materials, the effects of temperature and time on mechanical properties, electrochemical effects on materials including corrosion, electroprocessing, batteries, and fuel cells, fracture and fatigue, composite materials, material selection, and experimental methods in material science. In addition, there are appendices on the web site that contain the derivations of equations and advanced subjects related to the written textbook, and chapters on electrical, magnetic, and photonic properties of materials. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Materials: Engineering, Science, Processing and Design, Second Edition, was

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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 It is a mechanics book written for materials scientists. It provides very simple basic principle written for audience with non mechanics background, so that readers who plan to adopt and integrate the mechanics in their research areas can do it the smart way. The book also has plenty examples on the simple applications of mechanics in various materials science areas: in metallurgy, in coating, in design and in materials science in general. This book is filling the gap between the concept of mechanics used in the 'mechanics world' and the concept of mechanics 'outside mechanics world'. It is perfect for researchers outside mechanics, especially in materials science, who want to incorporate the concept of mechanics in their works. It is originally a script used by a research group in materials science with no mechanics background. This groundbreaking text has been established as the market leader throughout

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the world. Profusely illustrated, the book provides the necessary instructions for successful hands-on application of this versatile materials characterization technique.

Das englischsprachige, weltweit anerkannte Standardwerk zur Werkstoffauswahl - als neuer Buchtyp speziell für die Bedürfnisse deutschsprachiger Leser angepasst! Der Zusatznutzen, den dieses Buch bietet ist das Lesen und Lernen im englischen Original zu erleichtern und gleichzeitig in die spezielle Fachterminologie einzuführen und zwar durch: - Übersetzungshilfen in der Randspalte zur Fachterminologie und zu schwierigen normalsprachlichen Ausdrücken - Ein zweisprachiges Fachwörterbuch zum raschen Nachschlagen
A Textbook of Material Science and Engineering, SI Units
A Text Book of Material Science and Metallurgy
Werkstoffe 2: Metalle, Keramiken und Gläser, Kunststoffe und Verbundwerkstoffe
Deutsche Ausgabe herausgegeben von Michael Heinzelmann
Spektrum Akademischer Verlag

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.

¿ For students taking the Materials Science course . This book is also suitable for professionals seeking a guided inquiry approach to materials science. ¿ This unique book is designed to serve as an active learning tool that uses carefully selected information and guided inquiry questions. Guided inquiry helps readers reach true understanding of concepts as they develop greater ownership over the material presented. First, background information or data is presented. Then, concept invention questions lead the students to construct their own understanding of the fundamental concepts represented. Finally, application questions provide the reader with practice in solving problems using the concepts that they have derived from their own valid conclusions.¿ ¿ 0133354733 / 9780133354737 Introduction to Materials Science and Engineering: A Guided Inquiry with Mastering Engineering with Pearson eText -- Access Card Package Package consists of:¿¿¿ 0132136422 / 9780132136426 Introduction to Materials Science and Engineering: A Guided Inquiry 0133411443 / 9780133411447 MasteringEngineering with Pearson eText -- Access Card --

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Introduction to Materials Science ;

Foods are ingested and become part of our body. This book describes the science and procedure behind the materials in foods that impart their desirable properties. The book can serve as a text in a course in food materials science at the senior or graduate level or as a supplemental text in an advanced food technology course. It can also serve as a reference book for professionals in the food industry.

This is the first book that can be considered a textbook on thin film science, complete with exercises at the end of each chapter. Ohring has contributed many highly regarded reference books to the AP list, including Reliability and Failure of Electronic Materials and the Engineering Science of Thin Films. The knowledge base is intended for science and engineering students in advanced undergraduate or first-year graduate level courses on thin films and scientists and engineers who are entering or require an overview of the field. Since 1992, when the book was first published, the field of thin films has expanded tremendously, especially with regard to technological applications. The second edition will bring the book up-to-date with regard to these advances. Most chapters have been greatly updated, and several new chapters have been added.

Ceramic Materials: Science and Engineering is an up-to-date treatment of ceramic science, engineering, and applications in a single, integrated text. Building on a foundation of crystal structures, phase equilibria, defects and the mechanical properties of ceramic materials, students are shown how these materials are processed for a

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broad diversity of applications in today's society. Concepts such as how and why ions move, how ceramics interact with light and magnetic fields, and how they respond to temperature changes are discussed in the context of their applications. References to the art and history of ceramics are included throughout the text. The text concludes with discussions of ceramics in biology and medicine, ceramics as gemstones and the role of ceramics in the interplay between industry and the environment. Extensively illustrated, the text also includes questions for the student and recommendations for additional reading. **KEY FEATURES:** Combines the treatment of bioceramics, furnaces, glass, optics, pores, gemstones, and point defects in a single text Provides abundant examples and illustrations relating theory to practical applications Suitable for advanced undergraduate and graduate teaching and as a reference for researchers in materials science Written by established and successful teachers and authors with experience in both research and industry

As a general principle natural selection is continually trying to economise every part of the organisation. That was Charles Darwin, writing over 100 years ago about efficiency in nature. Natural materials are remarkably efficient. By efficient we mean that they fulfil the complex requirements posed by the way plants and animals function, and that they do so using as little material as possible. Many of these requirements are mechanical in nature: the need to support static and dynamic loads created by the mass of the organism or by wind loading, the need to store and release elastic energy, the need to

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Flex through large angles, the need to resist buckling and fracture, and to survive damage. Few optimisation algorithms have been more successful than that of survival of the fittest. The structural materials of nature exemplify this optimisation; even today, few man-made materials do better than those of nature in the function that they fill. And of all the remarkable properties of natural materials, one is truly exceptional that of the ability for self-repair. One recurring goal of material development has been to emulate the materials of nature. Among these, the most illusive is that of self-repair. In approaching this it is well to be aware of the nature of the differences that separate the structural materials of man and those of nature."

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[http://www.edugen.wiley.com/edugen/class/ ____](http://www.edugen.wiley.com/edugen/class/____) STUDENT DATA 89% found the instant feedback and scoring on homework and quizzes to be beneficial 69% said it helped them get a better grade 80% said it improved their understanding of the material 76% said it made them better prepared for tests STUDENT QUOTES "WileyPLUS is an amazing tool, I just wish it was available for all my classes!" Filiz Muharrem, Ohio State University "I loved the immediate response to homework problems and exams. I was able to find out what errors I had made, and go back to the chapters to research why I made the error. It made my learning much easier!" Theresa Klicker, University of Maryland, University College "Everything I needed was just a click away...that's how fast and simple it was. If I needed immediate help and I didn't understand a concept, it told me where to look." Caroline Cho, University of Texas-Austin "I felt WileyPLUS was a useful tool in understanding the chapters/problems. The "link-to-text" tool was very resourceful when solving the homework problems." Michael Geisheimer, Kean University "I was quite impressed with WileyPLUS. It was nice to be able to see what I

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did wrong and have more than one chance to answer a problem." Melinda Beach, Washburn University

In this vivid and comprehensible introduction to materials science, the author expands the modern concepts of metal physics to formulate basic theory applicable to other engineering materials, such as ceramics and polymers. Written for engineering students and working engineers with little previous knowledge of solid-state physics, this textbook enables the reader to study more specialized and fundamental literature of materials science. Dozens of illustrative photographs, many of them transmission electron microscopy images, plus line drawings, aid developing a firm appreciation of this complex topic. Hard-to-grasp terms such as "textures" are lucidly explained - not only the phenomenon itself, but also its consequences for the material properties. This excellent book makes materials science more transparent.

This well-established and widely adopted book, now in its Sixth Edition, provides a thorough analysis of the subject in an easy-to-read style. It analyzes, systematically and logically, the basic concepts and their applications to enable the students to comprehend the subject with ease. The book begins with a clear exposition of the background topics in chemical equilibrium, kinetics, atomic structure and chemical bonding. Then follows a detailed discussion on the structure of solids, crystal imperfections, phase diagrams, solid-state diffusion and phase transformations. This provides a deep insight into the structural control necessary for optimizing the various

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properties of materials. The mechanical properties covered include elastic, anelastic and viscoelastic behaviour, plastic deformation, creep and fracture phenomena. The next four chapters are devoted to a detailed description of electrical conduction, superconductivity, semiconductors, and magnetic and dielectric properties. The final chapter on 'Nanomaterials' is an important addition to the sixth edition. It describes the state-of-art developments in this new field. This eminently readable and student-friendly text not only provides a masterly analysis of all the relevant topics, but also makes them comprehensible to the students through the skillful use of well-drawn diagrams, illustrative tables, worked-out examples, and in many other ways. The book is primarily intended for undergraduate students of all branches of engineering (B.E./B.Tech.) and postgraduate students of Physics, Chemistry and Materials Science. KEY FEATURES

- All relevant units and constants listed at the beginning of each chapter
- A note on SI units and a full table of conversion factors at the beginning
- A new chapter on 'Nanomaterials' describing the state-of-art information
- Examples with solutions and problems with answers
- About 350 multiple choice questions with answers

This is an English translation of a Chinese textbook that has been designated a national planned university textbook, the highest award given to scientific textbooks in China.

The book provides a complete overview of mechanical properties and fracture mechanics in materials science, mechanics, and physics. It details the macro- and micro-mechanical properties of metal structural materials, nonmetal structural materials,

and various functional materials. It also discusses the macro and micro failure mechanism under different loadings and contains research results on thin film mechanics, smart material mechanics, and more.

"Phase Change Materials: Science and Applications" provides a unique introduction of this rapidly developing field. Clearly written and well-structured, this volume describes the material science of these fascinating materials from a theoretical and experimental perspective. Readers will find an in-depth description of their existing and potential applications in optical and solid state storage devices as well as reconfigurable logic applications. Researchers, graduate students and scientists with an interest in this field will find "Phase Change Materials" to be a valuable reference.

Market_Desc: Materials Scientists, Engineers, and Students of Engineering. Special Features: · It synchronizes contents with the sequence of topics taught in materials science and engineering courses in most universities in South Asia, while retaining the subject material of the seventh edition.· Materials of Importance pieces in most chapters provide relevance to the subject material.· Updated discussions on metals, ceramics and polymers.· Concept check questions test conceptual understanding.· CD-ROM packaged with the book contains the last five chapters in the book, answers to concept check questions and solutions to selected problems.· Virtual Materials Science and Engineering in CD-ROM to expedite learning process.· Integrates numerous examples throughout the chapters that show how the material is applied in the real

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world. Professor Balasubramaniam was the recipient of several awards like the Indian National Science Academy Young Scientist Award (1993), Alexander von Humboldt Foundation fellowship (1997), Best Metallurgist Award by the Ministry of Steels and Mines and the Indian Institute of Metals (1999) and the Materials Research Society of Indian Medal (1999) and recently Distinguished Educator of the Year (2009). About The Book: Building on the success of previous edition, this book continues to provide engineers with a strong understanding of the three primary types of materials and composites, as well as the relationships that exist between the structural elements of materials and their properties. With improved and more interactive learning modules, this textbook provides a better visualization of the concepts. Apart from serving as a text book for the basic course in materials science and engineering in engineering colleges, the book covers topics that can be used to advantage even in specialized courses pertaining to engineering materials. The book can be consulted as a good reference source for important properties of a wide variety of engineering materials, which benefits a wide spectrum of future engineers and scientists.

Der 'Callister' bietet den gesamten Stoff der Materialwissenschaften und Werkstofftechnik für Studium und Prüfungsvorbereitung. Hervorragend aufbereitet und in klarer, prägnanter Sprache wird das gesamte Fachgebiet anschaulich dargestellt. Das erprobte didaktische Konzept zielt ab auf 'Verständnis vor Formalismus' und unterstützt den Lernprozess der Studierenden: * ausformulierte Lernziele * regelmäßig

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eingestreute Verständnisfragen zum gerade vermittelten Stoff *
Kapitelzusammenfassungen mit Lernstoff, Gleichungen, Schlüsselwörtern und
Querverweisen auf andere Kapitel * durchgerechnete Beispiele, Fragen und Antworten
sowie Aufgaben und Lösungen * Exkurse in die industrielle Anwendung * an den
deutschen Sprachraum angepasste Einheiten und Werkstoffbezeichnungen *
durchgehend vierfarbig illustriert * Verweise auf elektronisches Zusatzmaterial Der
'Callister' ist ein Muss für angehende Materialwissenschaftler und Werkstofftechniker
an Universitäten und Fachhochschulen - und ideal geeignet für Studierende aus
Physik, Chemie, Maschinenbau und Bauingenieurwesen, die sich mit den Grundlagen
des Fachs vertraut machen möchten.

"A pedagogical gem.... Professor Readey replaces 'black-box' explanations with detailed,
insightful derivations. A wealth of practical application examples and exercise problems
complement the exhaustive coverage of kinetics for all material classes." –Prof. Rainer Hebert,
University of Connecticut "Prof. Readey gives a grand tour of the kinetics of materials suitable
for experimentalists and modellers.... In an easy-to-read and entertaining style, this book leads
the reader to fundamental, model-based understanding of kinetic processes critical to
development, fabrication and application of commercially-important soft (polymers,
biomaterials), hard (ceramics, metals) and composite materials. It is a must-have for anyone
who really wants to understand how to make materials and how they will behave in service."
--Prof. Bill Lee, Imperial College London, Fellow of the Royal Academy of Engineering "A much
needed text filling the gap between an introductory course in materials science and advanced

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materials-specific kinetics courses. Ideal for the undergraduate interested in an in-depth study of kinetics in materials." –Prof. Mark E. Eberhart, Colorado School of Mines This book provides an in-depth introduction to the most important kinetic concepts in materials science, engineering, and processing. All types of materials are addressed, including metals, ceramics, polymers, electronic materials, biomaterials, and composites. The expert author with decades of teaching and practical experience gives a lively and accessible overview, explaining the principles that determine how long it takes to change material properties and make new and better materials. The chapters cover a broad range of topics extending from the heat treatment of steels, the processing of silicon integrated microchips, and the production of cement, to the movement of drugs through the human body. The author explicitly avoids "black box" equations, providing derivations with clear explanations.

Kurzweilig geschrieben, didaktisch überzeugend sowie fachlich umfassend und hochkompetent: Diesen Qualitäten verdanken die beiden Bände des Ashby/Jones schon seit Jahren ihre führende Stellung unter den englischsprachigen Lehrbüchern der Werkstoffkunde. Der nun in der deutschen Ausgabe vorliegende zweite Band behandelt ausführlich, wie die für technische Anwendungen wichtigsten Werkstoffeigenschaften von Metallen, Keramiken und Gläsern, sowie Kunst- und Verbundwerkstoffen von ihrer Herstellung und Mikrostruktur abhängen und in technischen Konstruktionen gewinnbringend eingesetzt werden. Zielgruppe dieses werkstoffkundlichen Standardwerkes sind fortgeschrittene Studenten der Ingenieur- und Werkstoffwissenschaften sowie Ingenieure und Techniker. Aus dem Inhalt: - Metalle: Strukturen, Phasendiagramme, Triebkräfte und Kinetik von Strukturänderungen, diffusive und martensitische Umwandlungen, Stähle, Leichtmetalle, Herstellung und Umformung -

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Keramiken und Gläser: Strukturen, mechanische Eigenschaften, Streuung der Festigkeitswerte, Herstellung und Verarbeitung, Sonderthema Zement und Beton - Kunststoffe und Verbundwerkstoffe: Strukturen, mechanisches Verhalten, Herstellung, Verbundwerkstoffe, Sonderthema Holz - Werkstoffgerechtes Konstruieren, Werkstoffkundliche Untersuchung von Schadensfällen (Brückeneinsturz über dem Firth of Tay, Flugzeugabstürze der Baureihe Comet, Eisenbahnkatastrophe von Eschede, ein gerissenes Bungee-Seil) - Anhang: Phasendiagramme im Selbststudium Highlights: - Detaillierte Fallstudien, Beispiele und Übungsaufgaben - Ausführliche Hinweise zu Konstruktion und Anwendungen Verwandte Titel: Ashby/Jones, Werkstoffe 1: Eigenschaften, Mechanismen und Anwendungen. Deutsche Ausgabe der dritten Auflage des englischen Originals, 2006 Ashby, Materials Selection in Mechanical Design: Das Original mit Übersetzungshilfen. Easy-Reading-Ausgabe der dritten Auflage des englischen Originals, 2006

The father-son authoring duo of Kenneth G. Budinski and Michael K. Budinski brings nearly 70 years of combined industry experience to bear in this practical, reader-friendly introduction to engineering materials. This text covers theory and industry-standard selection practices, providing students with the working knowledge to make an informed selection of materials for engineering applications and to correctly specify materials on drawings and purchasing documents. Encompassing all significant material systems—metals, ceramics, plastics, and composites—this text incorporates the most up-to-date information on material usage and availability, addresses the increasingly global nature of the field, and reflects the suggestions of numerous adopters of previous editions. For undergraduate courses in Metallurgy and Materials Science

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