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South Jersey student publishes book to get other teens excited about STEM

Guy Perelmuter offers an insightful, easy to read, helpful guide to present and future technology in business areas ranging from the future of jobs to AI and from cryptocurrencies to quantum computing ...

Book Review: Present Future – Business, Science and the Deep Tech Revolution

The Handbook of Modern Ion Beam Materials Analysis, Second Edition is a compilation ... compiled by over 30 leading authorities in the field of ion beam analysis. The book is an excellent introduction ...

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5 children's books that teach valuable engineering lessons

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Alumni create engineering-themed children's books

Open Book Extracts (OBX), a leading ingredient manufacturer and product development house for the industry's most ...

Open Book Extracts Appoints New Product Innovation Executives To Lead Strategic Product Development and Research Initiatives

In a new biography titled "The Reason for the Darkness of the Night," John Tresch links Edgar Allan Poe and the forging of American science.

Edgar Allan Poe's life and work were intertwined with science, as a new biography sets out to prove

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The overall growth of the Industry 4.0 and subsequent demand for new innovative materials opens a ... of the material. This book entitled 'Corrosion Science-Modern Trends and Applications' with ...

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Author of Quantitative Risk & Value and three books, I have been investing in systematic strategies since 2010. I have a PhD in computer science, an MSc in software engineering, an MSc in civil ...

VAW: Materials Dashboard For June

The COVID-19 pandemic isn't yet over, but a new book ... engineering and radio/television/film and a member of Northwestern Engineering's Center for Surface Engineering and Tribology. Winslow, whose ...

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At first pass, it may seem odd for a computer science ... content in the book as jumping off points to introduce and explore different topics in CS as they meander through the material.

The foundations of computer science

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John Blyler is a Design News senior editor, covering the electronics and advanced manufacturing spaces. With a BS in Engineering Physics and an MS in Electrical Engineering, he has years of ...

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Where To Download Material Science And Engineering Books Free

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, and how 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).

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 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

Our civilization owes its most significant milestones to our use of materials. Metals gave us better agriculture and eventually the industrial revolution, silicon gave us the digital revolution, and we're just beginning to see what carbon nanotubes will give us. Taking a fresh, interdisciplinary look at the field, Introduction to Materials Science and Engineering emphasizes the importance of materials to engineering applications and builds the basis needed to select, modify, or create materials to meet specific criteria. The most outstanding feature of this text is the author's unique and engaging application-oriented approach. Beginning each chapter with a real-life example, an experiment, or several interesting facts, Yip-Wah Chung wields an expertly crafted treatment with which he entertains and motivates as much as he informs and educates. He links the discipline to the life sciences and includes modern developments such as nanomaterials, polymers, and thin films while working systematically from atomic bonding and analytical methods to crystalline, electronic, mechanical, and magnetic properties as well as ceramics, corrosion, and phase diagrams. Woven among the interesting examples, stories, and Chinese folk tales is a rigorous yet approachable mathematical and theoretical treatise. This makes Introduction to Materials Science and Engineering an effective tool for anyone needing a strong background in materials science for a broad variety of applications.

The design and study of materials is a pivotal component to new discoveries in the various fields of science and technology. By better understanding the components and structures of materials, researchers can increase its applications across different industries. Materials Science and Engineering: Concepts, Methodologies, Tools, and Applications is a compendium of the latest academic material on investigations, technologies, and techniques pertaining to analyzing the synthesis and design of new materials. Through its broad and extensive coverage on a variety of crucial topics, such as nanomaterials, biomaterials, and relevant computational methods, this multi-volume work is an essential reference source for engineers, academics, researchers, students, professionals, and practitioners seeking innovative perspectives in the field of materials science and engineering.

This fifth edition of a successful textbook continues to provide students with an introduction to the basic principles of materials science over a broad range of topics. The authors have revised and updated this edition to include many new applications and recently developed materials. The book is presented in three parts. The first section discusses the physics, chemistry, and internal structure of materials. The second part examines the mechanical properties of materials and their application in engineering situations. The final section presents the electromagnetic properties of materials and their application. Each chapter begins with an outline of the relevance of its topics and ends with problems that require an understanding of the theory and some reasoning ability to resolve. These are followed by self-assessment questions, which test students' understanding of the

principles of materials science and are designed to quickly cover the subject area of the chapter. This edition of Materials Science for Engineers includes an expanded treatment of many materials, particularly polymers, foams, composites and functional materials. Of the latter, superconductors and magnetics have received greater coverage to account for the considerable development in these fields in recent years. New sections on liquid crystals, superalloys, and organic semiconductors have also been added to provide a comprehensive overview of the field of materials science.

This introduction for engineers examines not only the physical properties of materials, but also their history, uses, development, and some of the implications of resource depletion and materials substitutions.

¿ 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 -- Introduction to Materials Science ¿

Materials Science and Engineering of Carbon: Characterization discusses 12 characterization techniques, focusing on their application to carbon materials, including X-ray diffraction, X-ray small-angle scattering, transmission electron microscopy, Raman spectroscopy, scanning electron microscopy, image analysis, X-ray photoelectron spectroscopy, magnetoresistance, electrochemical performance, pore structure analysis, thermal analyses, and quantification of functional groups. Each contributor in the book has worked on carbon materials for many years, and their background and experience will provide guidance on the development and research of carbon materials and their further applications. Focuses on characterization techniques for carbon materials Authored by experts who are considered specialists in their respective techniques Presents practical results on various carbon materials, including fault results, which will help readers understand the optimum conditions for the characterization of carbon materials

Phase diagrams are a MUST for materials scientists and engineers (MSEs). However, understanding phase diagrams is a difficult task for most MSEs. The audience of this book are young MSEs who start learning phase diagrams and are supposed to become specialists and those who were trained in fields other than materials science and engineering but are involved in research and/or development of materials after they are employed. Ternary phase diagrams presented in Chapter 4 are far more complex than binary phase diagrams. For this reason, ternary phase diagrams are nowadays less and less taught. However, in ceramics and semiconductors ternary phase diagrams become more and more important. Recent software provides necessary information to handle ternary phase diagrams. However, needless to say, without fundamental knowledge of ternary phase diagrams it is impossible to understand ternary phase diagrams correctly. In this book ternary phase diagrams are presented in a completely original way, with many diagrams illustrated in full color. In this book the essence of phase diagrams is presented in a user-friendly manner. This book is expected to be a Bible for MSEs.

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