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Engineering Materials Technology: Structure, Processing ...

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 ...

Engineering Materials Technology: Structures, Processing ...

Description Engineering Materials 2, Fifth Edition: An Introduction to Microstructures and Processing is a comprehensive introduction to microstructures and the processing of materials. It is comprised of four sections covering metals, ceramics, polymers and composites.

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.

The unique design of this book provides many helpful features for a sound and proven approach to learning about modern materials science and technology. Interesting case studies, applications, and illustrations, with numerous sample problems and activities, have been provided to facilitate the learning process. The book's extensive index and handy tables qualifies it as a useful "ready reference", on the job or elsewhere. You will learn about engineering materials and many associated topics through an integrated approach centering around innovative trends in design and manufacturing that often focus on environmentally friendly processes and products. Special strategies and clear explanations clarify the relationships among the major facets of materials technology.

CD-ROM contains: Demo of MaterialTool, user-friendly, interactive software that catalogues over 1000 materials and manufacturing processes.

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.

This book cover the latest advances in materials and structures in manufacturing and processing including additive and subtractive processes. It's intended to provide a compiled resource that reviews details of the advances that have been made in recent years in manufacturing and processing of materials and structures. A key development incorporated within this book is 3D printing, which is being used to produce complex parts including composites with odd shape fibers, as well as tissue and body organs. This book has been tailored for engineers, scientists and practitioners in a number of different fields such as aerospace, mechanical engineering, materials science and biomedicine. Biomimetic principles have also been integrated.

A geopolymer is a solid aluminosilicate material usually formed by alkali hydroxide or alkali silicate activation of a solid precursor such as coal fly ash, calcined clay and/or metallurgical slag. Today the primary application of geopolymer technology is in the development of reduced-CO2 construction materials as an alternative to Portland-based cements. Geopolymers: structure, processing, properties and industrial applications reviews the latest research on and applications of these highly important materials. Part one discusses the synthesis and characterisation of geopolymers with chapters on topics such as fly ash chemistry and inorganic polymer cements, geopolymer precursor design, nanostructure/microstructure of metakaolin and fly ash geopolymers, and geopolymer synthesis kinetics. Part two reviews the manufacture and properties of geopolymers including accelerated ageing of geopolymers, chemical durability, engineering properties of geopolymer concrete, producing fire and heat-resistant geopolymers, utilisation of mining wastes and thermal properties of geopolymers. Part three covers applications of geopolymers with coverage of topics such as commercialisation of geopolymers for construction, as well as applications in waste management. With its distinguished editors and international team of contributors, Geopolymers: structure, processing, properties and industrial applications is a standard reference for scientists and engineers in industry and the academic sector, including practitioners in the cement and concrete industry as well as those involved in waste reduction and disposal. Discusses the synthesis and characterisation of geopolymers with chapters covering fly ash chemistry and inorganic polymer cements Assesses the application and commercialisation of geopolymers with particular focus on applications in waste management Reviews the latest research on and applications of these highly important materials

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

