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Material Science And Engineering Km Gupta

His research interests are in the fields of materials science, composite materials, stress analysis, and solid mechanics. Professor Gupta has authored 28 books, and 120 papers, and is the editor-in-chief of two journals, The International Journal of Materials, Mechanics and Manufacturing(IJMMM) , and International Journal of Materials Science and Engineering (IJMSE) .

Engineering Materials: Research, Applications and Advances ...

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Introduces Emerging Engineering Materials: Mechanical, materials, and production engineering students can greatly benefit from Engineering Materials: Research, Applications and Advances. This text focuses heavily on research, and fills a need for current information on the science, processes, and applications in the field. Beginning with a brief overview, the book provides a historical and modern perspective on material science, and describes various types of engineering materials. It examines the industrial process for emerging materials, determines practical use under a wide range of conditions, and establishes what is needed to produce a new generation of materials. Covers Basic Concepts and Practical Applications The book consists of 18 chapters and covers a variety of topics that include functionally graded materials, auxetic materials, whiskers, metallic glasses, biocomposite materials, nanomaterials, superalloys, superhard materials, shape-memory alloys, and smart materials. The author outlines the latest advancements, including futuristic plastics, sandwich composites, and biodegradable composites, and highlights special kinds of composites, including fire-resistant composites, marine composites, and biomimetics. He also factors in current examples, future prospects, and the latest research underway in materials technology. Contains approximately 160 diagrams and 85 tables Incorporates examples, illustrations, and applications used in a variety of engineering disciplines Includes solved numerical examples and objective questions with answers Engineering Materials: Research, Applications and Advances serves as a textbook and reference for advanced/graduate students in mechanical engineering, materials engineering, production engineering, physics, and chemistry, and relevant researchers and practicing professionals in the field of materials science.

Collection of selected, peer reviewed papers from the 2013 2nd International Conference on Material Science and Engineering Technology (ICMSET 2013), November 16-17, 2013, London, United Kingdom. The 72 papers are grouped as follows: Chapter 1: Composite Materials; Chapter 2: Chemical Materials and Technologies; Chapter 3: Modelling and Analysis of Materials Properties and Technologies; Chapter 4: Nanomaterials and Nanotechnologies; Chapter 5: Advances in Energy Technology; Chapter 6: Applied Mechanics and Mechanical Engineering

Materials science includes those parts of chemistry and physics that deal with the properties of materials. It encompasses four classes of materials, the study of each of which may be considered a separate field: metals; ceramics; polymers and composites. Materials science is often referred to as materials science and engineering because it has many applications. Industrial applications of materials science include processing techniques (casting, rolling, welding, ion implantation, crystal growth, thin-film deposition, sintering, glassblowing, etc.), analytical techniques (electron microscopy, x-ray diffraction, calorimetry, nuclear microscopy (HEFIB) etc.), materials design, and cost/benefit tradeoffs in industrial production of materials. This book presents new research directions in a very new field which happens to be an old field as well.

This book presents the latest developments in semiconducting materials and devices, providing up-to-date information on the science, processes, and applications in the field. A wide range of topics are covered, including optoelectronic devices, metal – semiconductor junctions, heterojunctions, MISFETs, LEDs, semiconductor lasers, photodiodes, switching diodes, tunnel diodes, Gunn diodes, solar cells, varactor diodes, IMPATT diodes, and advanced semiconductors. Detailed attention is paid to advanced and futuristic materials. In addition, clear explanations are provided of, for example, electron theories, high-field effects, the Hall effect, transit-time effects, drift and diffusion, breakdown mechanisms, equilibrium and transient conditions, switching, and biasing. The book is designed to meet the needs of undergraduate engineering students and will also be very useful for postgraduate students; it will assist in preparation for examinations at colleges and universities and for other examinations in engineering. Practice questions are therefore presented in both essay and multiple choice format, and many solved examples and unsolved problems are included.

This comprehensive and unique book is intended to cover the vast and fast-growing field of electrical and electronic materials and their engineering in accordance with modern developments. Basic and pre-requisite information has been included for easy transition to more complex topics. Latest developments in various fields of materials and their sciences/engineering, processing and applications have been included. Latest topics like PLZT, vacuum as insulator, fiber-optics, high temperature superconductors, smart materials, ferromagnetic semiconductors etc. are covered. Illustrations and examples encompass different engineering disciplines such as robotics, electrical, mechanical, electronics, instrumentation and control, computer, and their inter-disciplinary branches. A variety of materials ranging from iridium to garnets, microelectronics, micro alloys to memory devices, left-handed materials, advanced and futuristic materials are described in detail.

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In today 's world, bioplastics are becoming increasinglyprominent owing mainly to scarcity of oil, increase in the cost ofpetroleum-based commodities, and growing environmental concernswith the dumping of non-biodegradable plastics in landfills. Thisbook summarizes the field of bioplastics by illustrating how theyform a unique class of research area that integrates pure andapplied sciences such as chemistry, engineering and materialscience, to initiate solutions. Compelling science demystics thiscomplex and often ambiguous branch of study for benefit of allthose concerned with bioplastics.

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