



Engineering Materials: Research, Applications and Advances

K.M. Gupta



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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.



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