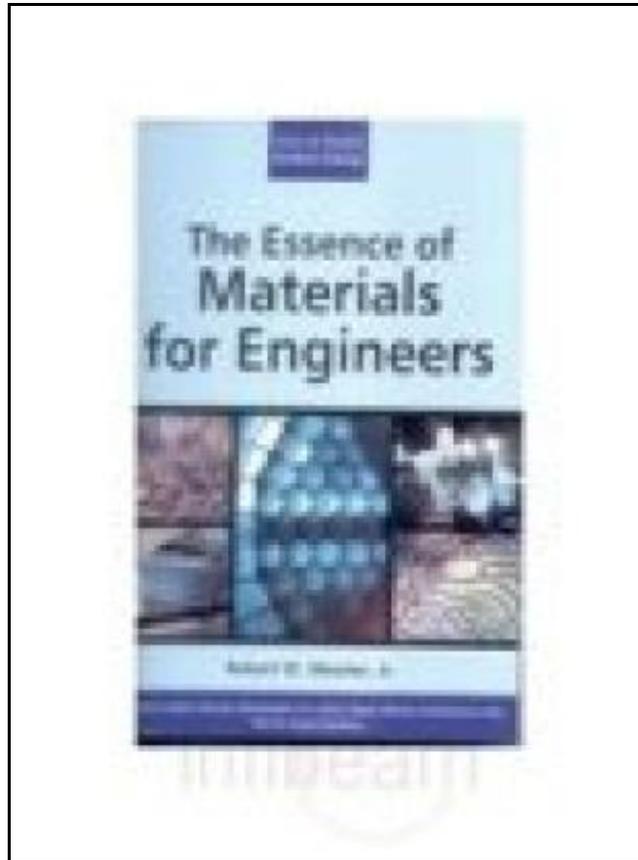


The Essence of Materials for Engineers



Filesize: 2.47 MB

Reviews

*This is basically the greatest pdf i have got go through right up until now. It normally fails to cost excessive. Once you begin to read the book, it is extremely difficult to leave it before concluding.
(Genoveva Langworth)*

THE ESSENCE OF MATERIALS FOR ENGINEERS



Jones & Bartlett India Private Limited/Viva Books, 2011. Softcover. Book Condition: New. First edition. This text is designed for the introductory, one-semester course in materials science or as a reference for professional engineers. It addresses what is essential for all engineers to know about the relationship between structure and properties as affected by processing in order to obtain all-important required performance. The organization of topics reflects this key interrelationship, and presents those topics in an order appropriate for students in an introductory course to build their own mental-construct or hierarchy. Modern advances in polymers, ceramics, crystals, composites, semiconductors, etc. are discussed with an emphasis on applications in industry

Key Features:

- Stresses the use of materials in practical applications using familiar analogies and real-world anecdotes to help explain new concepts
- Relates materials science to the chemistry, physics, and mathematics that students are taking concurrently
- Organizes the content into parts, and each chapter concludes with a summary to ensure the students' comprehension of key concepts
- Uses numerous illustrations to visualize new concepts, while tables collect important information in one convenient construct
- Instructor resources are available online and include solutions and Microsoft PowerPoint?? slides

Contents :

PART 1 : STRUCTURE

Chapter 1: Materials: Building Blocks for Engineers

- Why Materials Define Civilization
- Materials Science Is Science Applied to Materials, Not New Science
- The Pervasive Role of Materials in Engineering
- The Engineering of Materials to Meet Society's Needs: The Responsibility of Engineers
- Structure- Property- Processing - Performance Interdependence
- The Evolution of Materials over Time
- Materials Selection in Design: Every Engineer's Challenge
- Summary
- Thinking Problems and Exploration Questions

Chapter 2: The Periodic Table of Elements: The Key to Understanding Atomic Bonding and Types of Materials

The Structure of the Atom: The...



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