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The Essence of Materials for Engineers

By Robert W. Messler

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...



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