



Mechanics and Materials: Fundamentals and Linkages

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An understanding of the mechanical behavior of materials is crucial to the success of many technological endeavors, yet few researchers master both mechanics and materials science. This unique volume helps bridge the important gap between the two disciplines. Bringing together contributions by some of the foremost authorities in these fields, this practical work introduces materials scientists to the quantitative aspects of analysis and computation, and members of the mechanics community to the tools and applications of materials science and testing and characterization methods. The authors present diverse methodologies, practices, and nomenclature-pointing out the many shared and related concepts and helping readers tackle cross-disciplinary problems with ease. In two major parts dealing with the basics and microstructural phenomena, *Mechanics and Materials: Fundamentals and Linkages* features:

- * An easy-to-understand introduction to each discipline
- * Survey of the most useful analytical techniques available to materials scientists and engineers today
- * Broad coverage of mechanics-materials problems, from intrinsic properties to environmental influences
- * Mechanics topics ranging from continuum mechanics to micromechanics, encompassing elasticity, plasticity, and fracture
- * Materials topics such as creep, thermal activation, fatigue, polycrystallinity, dislocations, dynamic effects, and characterization methods

Complete with more than 300 figures and charts, and drawing on course material from the prestigious Institute for Mechanics and Materials' summer schools, *Mechanics and Materials: Fundamentals and Linkages* is an indispensable guide for students and professionals seeking to expand and integrate their knowledge of these fields.

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