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Here we will learn about the mechanical behavior of structures and materials, from the continuum description of properties to the atomistic and molecular mechanisms that confer those properties to all materials. We will cover elastic and plastic deformation, creep, fracture and fatigue of materials including crystalline and amorphous metals, semiconductors, ceramics, and (bio)polymers, and will focus on the design and processing of materials from the atomic to the macroscale to achieve ...

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Comprehensive in scope and readable, this book explores the methods used by engineers to analyze and predict the mechanical behavior of materials. Author Norman E. Dowling provides thorough coverage of materials testing and practical methods for forecasting the strength and life of mechanical parts and structural members.

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A balanced mechanics-materials approach and coverage of the latest developments in biomaterials and electronic materials, the new edition of this popular text is the most thorough and modern book available for upper-level undergraduate courses on the mechanical behavior of materials. To ensure that the student gains a thorough understanding the authors present the fundamental mechanisms that operate at micro- and nano-meter level across a wide-range of materials, in a way that is mathematically simple and requires no extensive knowledge of materials. This integrated approach provides a conceptual presentation that shows how the microstructure of a material controls its mechanical behavior, and this is reinforced through extensive use of micrographs and illustrations. New worked examples and exercises help the student test their understanding. Further resources for this title, including lecture slides of select illustrations and solutions for exercises, are available online at www.cambridge.org/97800521866758.

This outstanding text offers a comprehensive treatment of the principles of the mechanical behavior of materials. Appropriate for senior and graduate courses, it is distinguished by its focus on the relationship between macroscopic properties, material microstructure, and fundamental concepts of bonding and crystal structure. The current, second edition retains the original editions extensive coverage of nonmetallics while increasing coverage of ceramics, composites, and polymers that have emerged as structural materials in their own right and are now competitive with metals in many applications. It contains new case studies, includes solved example problems, and incorporates real-life examples. Because of

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the books extraordinary breadth and depth, adequate coverage of all of the material requires two full semesters of a typical three-credit course. Since most curricula do not have the luxury of allocating this amount of time to mechanical behavior of materials, the text has been designed so that material can be culled or deleted with ease. Instructors can select topics they wish to emphasize and are able to proceed at any level they consider appropriate.

An adequate physical and mathematical description of material behavior is basic to all engineering applications. Fortunately, many problems may be treated entirely within the framework of elastic material response. While even these problems may become quite complex because of geometrical and loading conditions, the linearity, reversibility, and rate independence generally applicable to elastic material description certainly eases the task of the analyst. Today, however, we are increasingly confronted with practical problems which involve material response which is inelastic, hysteretic and rate dependent combined with loading which is transient in nature. These problems include, for instance, structural response to moving or impulsive loads, all the areas of ballistics (internal, external and terminal), contact stresses under high speed bearings, high speed machining, rolling and other metal working processes, explosive and impact forming, shock attenuation structures, seismic wave propagation, and many others of equal importance. As these problems were encountered, it became increasingly evident that we did not have at hand the physical or mathematical description of the behavior of

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materials necessary to produce realistic solutions. Thus, during the last ten years particularly, there has been considerable effort expended toward the generation of both experimental data on the dynamic mechanical response of materials as well as the formulation of realistic constitutive theories. It was the purpose of the Symposium at which the articles in this book were presented to discuss and review recent developments in this field.

Publisher Description

An understanding of mechanisms for mechanical behavior is essential to applications of new materials and new designs using established materials. Focusing on the similarities and differences in mechanical response within and between the material classes, this book provides a balanced approach between practical engineering applications and the science behind mechanical behavior of materials. Covering the three main material classes: metals, ceramics and polymers, topics covered include stress, strain, tensors, elasticity, dislocations, strengthening mechanisms, high temperature deformation, fracture, fatigue, wear and deformation processing. Designed to provide a bridge between introductory coverage of materials science and strength of materials books and specialized treatments on elasticity, deformation and mechanical processing, this title: *

- * Successfully employs the principles of physics and mathematics to the materials science topics covered.
- * Provides short biographical or historical background on key contributors to the field of materials science.
- * Includes over one hundred new figures and mechanical test data that illustrate the subjects covered.
- * Features numerous

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examples and more than 150 homework problems, with problems pitched at three levels.

This is a textbook on the mechanical behavior of materials for mechanical and materials engineering. It emphasizes quantitative problem solving. This new edition includes treatment of the effects of texture on properties and microstructure in Chapter 7, a new chapter (12) on discontinuous and inhomogeneous deformation, and treatment of foams in Chapter 21.

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