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## *Core*

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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

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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

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understanding. Further resources for this title, including lecture slides of select illustrations and solutions for exercises, are available online at [www.cambridge.org/97800521866758](http://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

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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 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

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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.

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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),

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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 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

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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

How do engineering materials deform when bearing mechanical loads? To answer this crucial question, the book bridges the gap

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between continuum mechanics and materials science. The different kinds of material deformation are explained in detail. The book also discusses the physical processes occurring during the deformation of all classes of engineering materials and shows how these materials can be strengthened to meet the design requirements. It provides the knowledge needed in selecting the appropriate engineering material for a certain design problem. This book is both a valuable textbook and a useful reference for graduate students and practising engineers.

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