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Mechanical Behavior of Materials and illustrations, this is the perfect textbook for a course in mechanical behavior of materials, in mechanical engineering, and materials science Marc Meyers is a Professor in the Department of NanoEngineering and Mechanical and Aerospace Engineering at the University of California, San Diego A Co-Founder and Co-Chair of the EXPLOMET Mechanical Behavior of Materials, 1990, 710 pages, Thomas...

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A balanced mechanics-materials approach and coverage of the latest developments in biomaterials and electronic

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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

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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

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Behavior Of Materials Or Read Online Viewer Sea 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 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.

This textbook supports a range of core courses in undergraduate materials and mechanical engineering curricula given at leading universities globally. It presents

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fundamentals and quantitative analysis of mechanical behavior of materials covering engineering mechanics and materials, deformation behavior, fracture mechanics, and failure design. This book provides a holistic understanding of mechanical behavior of materials, and enables critical thinking through mathematical modeling and problem solving. Each of the 15 chapters first introduces readers to the technologic importance of the topic and provides basic concepts with diagrammatic illustrations; and then its engineering analysis/mathematical modelling along with calculations are presented. Featuring 200 end-of-chapter calculations/worked examples, 120 diagrams, 260 equations on mechanics and materials, the text is ideal for students of mechanical, materials, structural, civil, and aerospace

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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

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introductory coverage of materials science and strength of materials books and specialized treatments on elasticity, deformation and mechanical processing, this title: *
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How do engineering materials deform when bearing mechanical loads? To answer this crucial question, the book

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Bridges the gap 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.

Advances in technology are demanding ever-increasing mastery over the materials being used: the challenge is to

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gain a better understanding of their behaviour, and more particularly of the relations between their microstructure and their macroscopic properties. This work, of which this is the first volume, aims to provide the means by which this challenge may be met. Starting from the mechanics of deformation, it develops the laws governing macroscopic behaviour – expressed as the constitutive equations – always taking account of the physical phenomena which underlie rheological behaviour. The most recent developments are presented, in particular those concerning heterogeneous materials such as metallic alloys, polymers and composites. Each chapter is devoted to one of the major classes of material behaviour. As the subtitles indicate, Volume 1 deals with micro- and macroscopic constitutive

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behaviour and Volume 2 with damage and fracture mechanics. A third volume will be devoted to exercises and their full solutions complementing the content of these two first volumes. Most of the chapters end with a set of exercises, to many of which either the full solution or hints on how to obtain this are given; each volume is profusely illustrated with explanatory diagrams and with electron-microscope photographs. This book, now in its second edition, has been rigorously re-written, updated and modernised for a new generation. The authors improved the existing material, in particular in modifying the organisation, and added new up-to-date content. Understanding the subject matter requires a good knowledge of solid mechanics and materials science; the

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main elements of these fields are given in a set of annexes at the end of the first volume. The authors also thought it interesting for the readers to give as footnotes some information about the many scientists whose names are attached to theories and formulae and whose memories must be celebrated. Whilst the present book, as well as Volume 2, is addressed primarily to graduate students, part of it can be used in undergraduate courses; and it is hoped that practising engineers and scientists will find the information it conveys useful. It is the authors' hope also that English-speaking readers will want to learn about the aspects of French culture, and more particularly of the French school of micromechanics of materials, which this treatment undoubtedly displays.

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Covers stress-strain equations, mechanical testing, yielding and fracture under stress, fracture of cracked members, and fatigue of materials.

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