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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](http://www.cambridge.org/97800521866758).

Rapid prototyping is used to design and develop medical devices and instrumentation. This book details research in rapid prototyping of bio-materials for medical applications. It provides a wide variety of examples of medical applications using rapid prototyping, including tissue engineering, dental applications, and bone replacement. Coverage also discusses the emergence of computer aided design in the development of prosthetic devices.

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This will be a substantial revision of a former reference work that will now be developed as a primary text for emerging courses in mechanobiology/cell mechanics being offered in a growing number of biomedical engineering and chemical engineering departments worldwide. It will also serve as a professional reference book for engineers, scientists and clinicians who are interested in mechanobiology, which is the study of the effects of mechanical environments on the biological processes of cells. The readers will gain a comprehensive review of recent research findings as well as elementary chapters on solid mechanics, fluid mechanics, and molecular analysis techniques.

Updated discussion of the processing, microstructure, properties, and applications of fibers such as polymers, metals, ceramics and glass.

Mechanobiology—the study of the effects of mechanical environments on the biological processes of cells—has evolved from traditional biomechanics via the incorporation of strong elements of molecular and cell biology. Currently, a broad range of organ systems are being studied by surgeons, physicians, basic scientists, and engineers. These mechanobiologists aim to create new therapies and further biological understanding by quantifying the mechanical environment of cells and the molecular mechanisms of mechanically induced pathological conditions. To achieve these goals, investigators must be familiar with both the basic concepts of mechanics and the modern tools of cellular/molecular biology. Unfortunately, current literature contains numerous studies that misuse standard mechanical estimations and terminology, or fail to implement appropriate molecular analyses. Therefore, the Mechanobiology Handbook not only presents cutting-edge research findings across various fields and organ systems, but also provides the elementary chapters on mechanics and molecular analysis techniques to encourage cross-field understanding and appropriate planning. Aided by the continuous advancement of research tools in both mechanics and biology, more sophisticated experiments and analyses are possible—thus fueling the growth of the field of mechanobiology. Considering the complexity of the mechanics and the biology of the human body, most of the world of biomechanics remains to be studied. Since the field is still developing, the Mechanobiology Handbook does not force one unified theory, but brings out many different viewpoints and approaches to stimulate further research questions.

Polymeric Foams Structure-Property-Performance: A Design Guide is a response to the design challenges faced by engineers in a growing market with evolving standards, new regulations, and an ever-increasing variety of application types for polymeric foam. Bernard Obi, an author with wide experience in testing, characterizing, and applying polymer foams, approaches this emerging complexity with a practical design methodology that focuses on understanding the relationship between structure-properties of polymeric

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foams and their performance attributes. The book not only introduces the fundamentals of polymer and foam science and engineering, but also goes more in-depth, covering foam processing, properties, and uses for a variety of applications. By connecting the diverse technologies of polymer science to those from foam science, and by linking both micro- and macrostructure-property relationships to key performance attributes, the book gives engineers the information required to solve pressing design problems involving the use of polymeric foams and to optimize foam performance. With a focus on applications in the automotive and transportation industries, as well as uses of foams in structural composites for lightweight applications, the author provides numerous case studies and design examples of real-life industrial problems from various industries and their solutions. Provides the science and engineering fundamentals relevant for solving polymer foam application problems Offers an exceptionally practical methodology to tackle the increasing complexity of real-world design challenges faced by engineers working with foams Discusses numerous case studies and design examples, with a focus on automotive and transportation Utilizes a practical design methodology focused on understanding the relationship between structure-properties of polymeric foams and their performance attributes

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.

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](http://www.cambridge.org/97800521866758).

Thermodynamics is one of the most exciting branches of physical chemistry which has greatly contributed to the modern science. Being concentrated on a wide range of applications of thermodynamics, this book

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gathers a series of contributions by the finest scientists in the world, gathered in an orderly manner. It can be used in post-graduate courses for students and as a reference book, as it is written in a language pleasing to the reader. It can also serve as a reference material for researchers to whom the thermodynamics is one of the area of interest.

Advances in technology are demanding ever-increasing mastery over the materials being used: the challenge is to gain a better understanding of their behaviour, and more particularly of the relations between their microstructure and their macroscopic properties. This two-volume 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 I deals with elasticity and plasticity and Volume II with viscoelasticity, viscoplasticity, damage phenomena, and the mechanics of fracture and of contact. Annexes to Volume I give the relevant basic tools and techniques of continuous-media mechanics, crystallography and phase changes. 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. Mechanics of Material Behaviour grew out of the Paris Diplome d'Études Approfondies (DEA, Advanced Studies Diploma) in Mechanics and Materials. In addition to Diploma-level students, it is addressed to students reading for a first degree in engineering, practising engineers and research workers in this field. The treatment is mathematical but the mathematical arguments should not prove difficult; the real difficulties of the subject stem from the frequent and considerable changes of scale that have to be appreciated and the need to acquire a firm grasp of the underlying physics.

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