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This book deals with an interface between mechanical engineering and biology. Available for the first time in paperback, it reviews biological structural materials and systems and their mechanically important features and demonstrates that function at any particular level of biological integration is permitted and controlled by structure at lower levels of integration. Five chapters discuss the properties of materials in general and those of biomaterials in particular. The authors examine the design of skeletal elements and discuss animal and plant systems in terms of mechanical design. In a concluding chapter they investigate organisms in their environments and the insights gained from study of the mechanical aspects of their lives.

This book deals with a group of architected materials. These are hybrid materials in which the constituents (even strongly dissimilar ones) are combined in a given topology and geometry to provide otherwise conflicting properties. The hybridization presented in the book occurs at various levels - from the molecular to the macroscopic (say, sub-centimeter) ones. This monograph represents a collection of programmatic chapters, defining archimats and summarizing the results obtained by using the geometry-inspired materials design. The area of architected or geometry-inspired materials has reached a certain level of maturity and visibility for a comprehensive presentation in book form. It is written by a group of authors who are active researchers working on various aspects of architected materials. Through its 14 chapters, the book provides definitions and descriptions of the archetypes of architected materials and addresses the various techniques in which they can be designed, optimized, and manufactured. It covers a broad realm of archimats, from the ones occurring in nature to those that have been engineered, and discusses a range of their possible applications. The book provides inspiring and scientifically profound, yet entertaining, reading for the materials science community and beyond.

The professional's source. Handbooks in the Wiley Series in Mechanical Engineering Practice Handbook of Energy Systems Engineering Production and Utilization Edited by Leslie C. Wilbur Here is the essential information needed to select, compare, and evaluate energy components and systems. Handbook of Energy Systems is a rich sourcebook of reference data and formulas, performance criteria, codes and standards, and techniques used in the development and production of energy. It focuses on the major sources of energy technology: coal, hydroelectric and nuclear power, petroleum, gas, and solar energy Each section of the Handbook is a mini-primer furnishing modern methods of energy storage, conservation, and utilization, techniques for analyzing a wide range of components such as heat exchangers, pumps, fans and compressors, principles of thermodynamics, heat transfer and fluid dynamics, current energy resource data and much more. 1985 (0 471-86633-4) 1,300 pp.

Fatigue and Durability of Structural Materials explains how mechanical material behavior relates to the design of structural machine components. The major emphasis is on fatigue and failure behavior using engineering models that have been developed to predict, in advance of service, acceptable fatigue and other durability-related lifetimes. The book covers broad classes of materials used for high-performance structural applications such as aerospace components, automobiles, and power generation systems. Coverage focuses on metallic materials but also addresses unique capabilities of important nonmetals. The concepts are applied to behavior at room or ambient temperatures; a planned second volume will address behavior at higher temperatures. The volume is a repository of the most significant contributions by the authors to the art and science of material and structural durability over the past half century. During their careers, including 40 years of direct collaboration, they have developed a host of durability models that are based on sound physical and engineering principles. Yet, the models and interpretation of behavior have a unique simplicity that is appreciated by the practicing engineer as well as the beginning student. In addition to their own pioneering work, the authors also present the work of numerous others who have provided useful results that have moved progress in these fields. This book will be of immense value to practicing mechanical and materials engineers and designers charged with producing structural components with adequate durability. The coverage is appropriate for a range of technical levels from undergraduate engineering students through material behavior researchers and model developers. It will be of interest to personnel in the automotive and off-highway vehicle manufacturing industry, the aeronautical industry, space propulsion and the power generation/conversion industry, the electric power industry, the machine tool industry, and any industry associated with the design and manufacturing of mechanical equipment subject to cyclic loads.

Concerned with the mechanics of rigid and deformable solids in equilibrium, this text An Introduction to the Mechanics of Solids puts considerable emphasis on the process of constructing idealized model to represent actual physical situations, which is a central problem of engineering. Problems given in the book depict variety of situations, to which the principles contained in the book may be applied.

Nearly 500 years ago, Leonardo da Vinci observed that long wires are weaker than short wires of the same diameter. The statistical theory of extreme values (weakest-link theory) plays a very important role in studies of the size effect; competing theories include the energy theory and the technological theory. Summaries are given of relevant publications identified in the course of a literature survey on the size effect. Since this survey was motivated by concern about the reliability of large composite aircraft structures, which are now coming into use, special attention is given to the size effect on composite materials and structures. An attempt is made to summarize the present state of knowledge and to identify unsolved problems requiring further research.