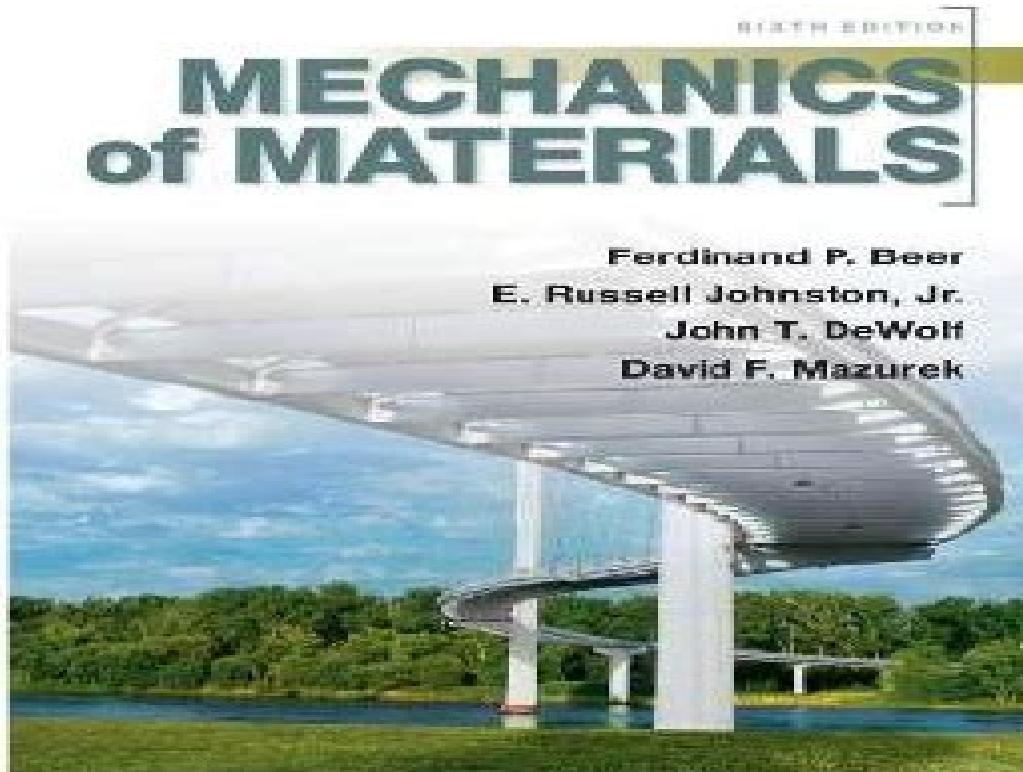


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6TH EDITION

Ferdinand Beer, Russell Johnston, John T. Dewolf & David Mazurek



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Mechanics of Materials Ferdinand Pierre Beer, Elwood Russell Johnston, John T. DeWolf, 2006 Available January 2005 For the past forty years Beer and Johnston have been the uncontested leaders in the teaching of undergraduate engineering mechanics. Their careful presentation of content unmatched levels of accuracy and attention to detail have made their texts the standard for excellence. The revision of their classic *Mechanics of Materials* features an updated art and photo program as well as numerous new and revised homework problems. The text's superior Online Learning Center www.mhhe.com/beermom4e includes an extensive Self-paced Mechanics Algorithmic Review and Tutorial S M A R T created by George Staab and Brooks Breeden of The Ohio State University that provides students with additional help on key concepts. The custom website also features animations for each chapter, lecture powerpoints and other online resources for both instructors and students.

Bio-Inspired Materials Ulisses Targino Bezerra, Heber Sivini Ferreira, Normando Perazzo Barbosa, 2019-04-16

Nature has provided opportunities for scientists to observe patterns in biomaterials which can be imitated when designing construction materials. Materials designed with natural elements can be robust and environment friendly at the same time. Advances in our understanding of biology and materials science coupled with the extensive observation of nature have stimulated the search for better accommodation compression of materials and the higher organization reduction of mechanical stress in man made structures. *Bio Inspired Materials* is a collection of topics that explore frontiers in 3 sections of bio inspired design i bionics design ii bio inspired construction and iii bio materials. Chapters in each section address the most recent advances in our knowledge about the desired and expected relationship between humans and nature and its use in bio inspired buildings. Readers will also be introduced to new concepts relevant to bionics, biomimicry and biomimetics. Section i presents research concepts based on information gained from the direct observation of nature and its applications for human living. Section ii is devoted to artificial construction of the Earth. This section addresses issues on geopolymers materials that resemble the structure of soils and natural rocks, procedures that reduce damage caused by earthquakes in natural construction, the development of products from vegetable resins and construction principles using bamboo. The last section takes a look into the future towards the improvement of human living conditions. *Bio Inspired Materials* offers readers having a background in architecture, civil engineering and systems biology a new perspective about sustainable building which is a key part of addressing the environmental concerns of current times.

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