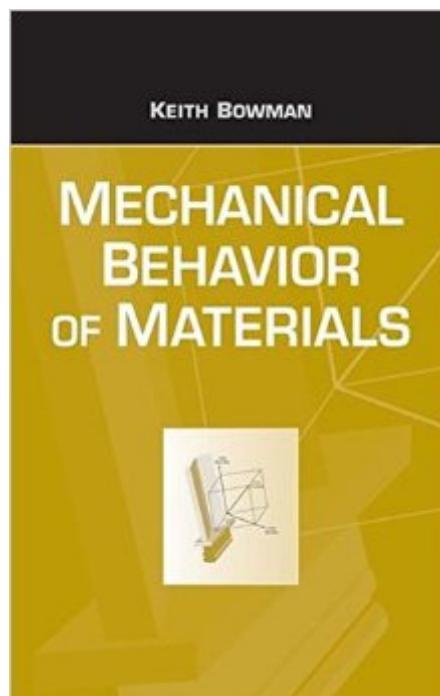


The book was found

# Introduction To Mechanical Behavior Of Materials



## Synopsis

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 introductory coverage of materials science and strength of materials books and specialized treatments on elasticity, deformation and mechanical processing, this title: Successfully employs the principles of physics and mathematics to the materials science topics covered. Provides short biographical or historical background on key contributors to the field of materials science. Includes over one hundred new figures and mechanical test data that illustrate the subjects covered. Features numerous examples and more than 150 homework problems, with problems pitched at three levels.

## Book Information

Paperback: 368 pages

Publisher: Wiley; 1 edition (December 22, 2003)

Language: English

ISBN-10: 0471241989

ISBN-13: 978-0471241980

Product Dimensions: 7.2 x 0.7 x 10.3 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #862,920 in Books (See Top 100 in Books) #112 in Books > Science & Math > Physics > Nanostructures #1292 in Books > Engineering & Transportation > Engineering > Materials & Material Science #1353 in Books > Textbooks > Engineering > Mechanical Engineering

[Download to continue reading...](#)

Introduction to Mechanical Behavior of Materials Mechanical Behavior of Materials (4th Edition)

Barron's Mechanical Aptitude and Spatial Relations Test, 3rd Edition (Barron's Mechanical Aptitude & Spatial Relations Test) Master The Mechanical Aptitude and Spatial Relations Test (Mechanical

Aptitude and Spatial Relations Tests) Practice Problems for the Mechanical Engineering PE Exam, 13th Ed (Comprehensive Practice for the Mechanical Pe Exam) Principles And Practice of Mechanical Ventilation, Third Edition (Tobin, Principles and Practice of Mechanical Ventilation) Craig's Restorative Dental Materials, 13e (Dental Materials: Properties & Manipulation (Craig)) The Chemistry of Medical and Dental Materials: RSC (RSC Materials Monographs) The Oil Painting Book: Materials and Techniques for Today's Artist (Watson-Guptill Materials and Techniques) The Oil Painting Book: Materials and Techniques for Today's Artist (Watson-Guptill Materials and Techniques) New Edition by Creevy, Bill [1999] His Dark Materials Trilogy (His Dark Materials) Understanding Human Behavior: A Guide for Health Care Providers (Communication and Human Behavior for Health Science) Crucial Accountability: Tools for Resolving Violated Expectations, Broken Commitments, and Bad Behavior, Second Edition: Tools for Resolving Violated Expectations, ... and Bad Behavior, Second Edition AUDIO Mechanical and Electrical Equipment for Buildings Machinery and Mechanical Devices: A Treasury of Nineteenth-Century Cuts Papa's Mechanical Fish DEWALT HVAC Code Reference:: Based on the 2015 International Mechanical Code (DEWALT Series) Black & Decker Codes for Homeowners, Updated 3rd Edition: Electrical - Mechanical - Plumbing - Building - Current with 2015-2017 Codes (Black & Decker Complete Guide) 2012 International Mechanical Code (International Code Council Series) 2015 International Mechanical Code

[Dmca](#)