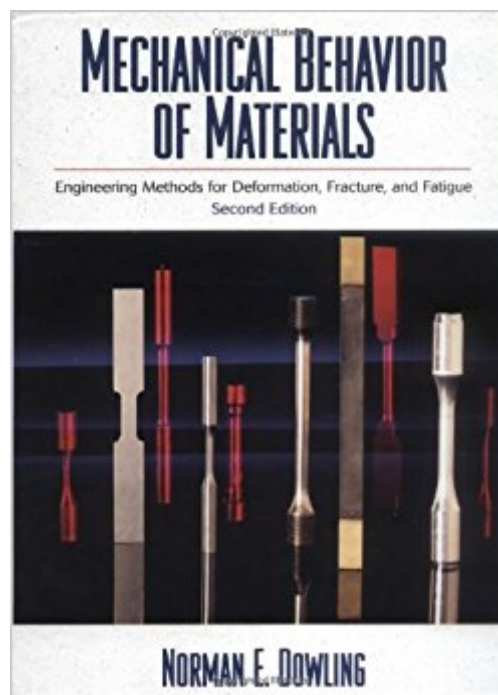


The book was found

Mechanical Behavior Of Materials: Engineering Methods For Deformation, Fracture, And Fatigue (2nd Edition)



Synopsis

Praised by readers for its usefulness, this book covers the entire area of mechanical behavior of materials from a practical engineering viewpoint, providing a single-source introductory analysis with specific coverage on materials testing, yield criteria, stress-based fatigue, fracture mechanics, crack growth, strain-based fatigue, and creep. Explains test methods and the principles behind them, and explores engineering methods for predicting strength and life, with real-date worked examples. Completely updates discussions on fracture mechanics, stress-based fatigue, and creep, and adds three new appendices; one that reviews useful topics from elementary mechanics of materials, one that considers statistical variation in materials properties, and a third that aids in locating materials property information in the tables found in various chapters. Updated end-of-chapter references lead to sources of materials data and to more detailed information. For the mechanical engineer, materials engineer, aeronautical engineer, structural engineer, design engineer, or test engineer.

Book Information

Hardcover: 830 pages

Publisher: Prentice Hall; 2nd edition (September 2, 1998)

Language: English

ISBN-10: 013905720X

ISBN-13: 978-0139057205

Product Dimensions: 7 x 1.6 x 9.2 inches

Shipping Weight: 1.6 pounds

Average Customer Review: 4.4 out of 5 stars 10 customer reviews

Best Sellers Rank: #795,160 in Books (See Top 100 in Books) #28 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Fracture Mechanics #59 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Testing #832 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Materials Science

Customer Reviews

An exploration of the engineering methods used in industry for analyzing and predicting the mechanical behavior of materials. --This text refers to an out of print or unavailable edition of this title.

Praised by readers for its usefulness, this book covers the entire area of mechanical behavior of

materials from a practical engineering viewpoint, providing a single-source introductory analysis with specific coverage on materials testing, yield criteria, stress-based fatigue, fracture mechanics, crack growth, strain-based fatigue, and creep. Explains test methods and the principles behind them, and explores engineering methods for predicting strength and life, with real-date worked examples. Completely updates discussions on fracture mechanics, stress-based fatigue, and creep, and adds three new appendices; one that reviews useful topics from elementary mechanics of materials, one that considers statistical variation in materials properties, and a third that aids in locating materials property information in the tables found in various chapters. Updated end-of-chapter references lead to sources of materials data and to more detailed information. For the mechanical engineer, materials engineer, aeronautical engineer, structural engineer, design engineer, or test engineer.

This is a very good text for an undergraduate mechanics of materials class. Graduate students will probably want a book with a little more detail, like *Deformation and Fracture Mechanics of Engineering Materials* by Richard W. Hertzberg.

This book is a very helpful and valuable general reference on the mechanical behavior of materials. I don't work in this field very often, and I wanted a book that explained the basics well. This book delivers that and more. It fills the gap in my library that I hoped to fill.

Great book for an engineer.

Its a very good book.

Undoubtly, this is a classical textbook for engineering students And this book keeps on a good condition. It is seen even not secondhand. Delivery was also in time, thx!

This book is a great reading for students or junior engineers who are just starting to work in Mechanical Engineering. However, a Senior Engineer and any experienced practitioner will look for something more deep.

I feel very lucky to get this book. This book is useful for understanding the mechanical properties of materials. And it's almost brand new.

I thought that this was an excellent text!

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

Mechanical Behavior of Materials: Engineering Methods for Deformation, Fracture, and Fatigue (2nd Edition) Mechanical Behavior of Materials: Engineering Methods for Deformation, Fracture, and Fatigue Fracture and Fatigue Control in Structures: Applications of Fracture Mechanics (Prentice-Hall International Series in Civil Engineering and Engineering Mechanics) Adrenal Fatigue: Overcome Adrenal Fatigue Syndrome, Boost Energy Levels, and Reduce Stress (Adrenal Fatigue Syndrome, Reduce Stress, Adrenal Fatigue Diet, Adrenal Reset Diet Book 1) Deformation and Fracture Mechanics of Engineering Materials, 5th Edition Deformation and Fracture Behaviour of Polymer Materials (Springer Series in Materials Science) Deformation and Fracture Mechanics of Engineering Materials Fracture and Fatigue Control in Structures: Applications of Fracture Mechanics (Astm Manual Series) Chronic Fatigue Syndrome And Your Emotions: How To Successfully Treat Chronic Fatigue Syndrome In The Natural Way-A Key For Recovery (Chronic Fatigue Syndrome, ... Syndrome Fibromyalgia, Lupus, Book 3) Gut: The Key to Ultimate Health - SIBO, IBS & Fatigue (GAPS, Candida, Chronic Fatigue, Fibromyalgia, Adrenal Fatigue, SIBO, Parasites) Fracture Mechanics of Concrete: Applications of Fracture Mechanics to Concrete, Rock and Other Quasi-Brittle Materials Probabilistic fracture mechanics and reliability (Engineering Applications of Fracture Mechanics) Code Check Plumbing & Mechanical 4th Edition: An Illustrated Guide to the Plumbing and Mechanical Codes (Code Check Plumbing & Mechanical: An Illustrated Guide) Shigley's Mechanical Engineering Design (McGraw-Hill Series in Mechanical Engineering) Analytical Fracture Mechanics (Dover Civil and Mechanical Engineering) Fracture and Fatigue of Welded Joints and Structures (Woodhead Publishing Series in Welding and Other Joining Technologies) ASM Handbook: Volume 19: Fatigue and Fracture Fatigue and Fracture: Understanding the Basics Fracture and Size Effect in Concrete and Other Quasibrittle Materials (New Directions in Civil Engineering) Processing Techniques and Tribological Behavior of Composite Materials (Advances in Chemical and Materials Engineering)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)