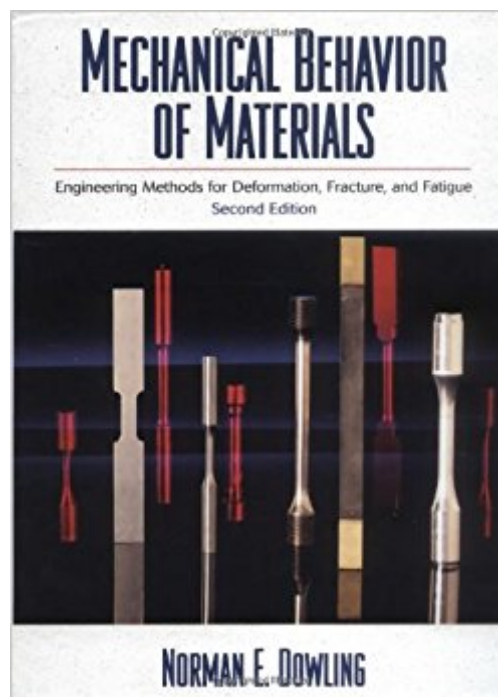


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# Mechanical Behavior Of Materials: Engineering Methods For Deformation, Fracture, And Fatigue (2nd Edition)



## 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

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## 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.

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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!

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