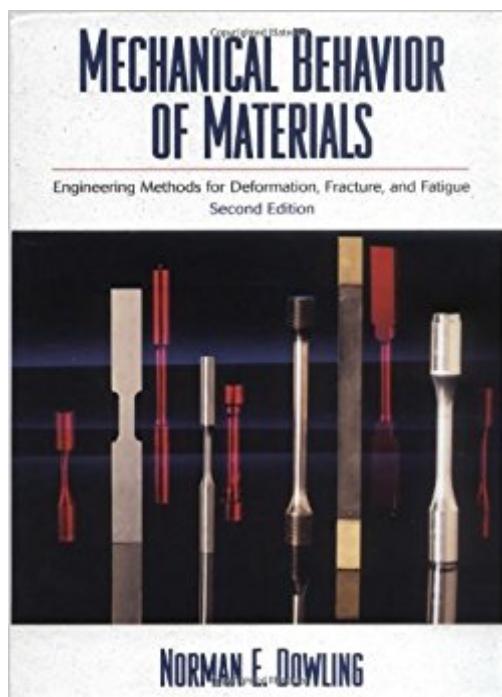


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# Mechanical Behavior Of Materials: Engineering Methods For Deformation, Fracture, And Fatigue (2nd Edition)



## **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.

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 studentsAnd this book keeps on a good condition.It is seen even not seconhand.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 practician 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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