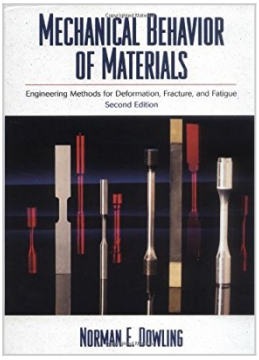

Mechanical Behavior of Materials: Engineering Methods for Deformation, Fracture, and Fatigue (2nd Edition)

By Norman E. Dowling

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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.

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- Sales Rank: #872258 in Books
- Published on: 1998-09-02
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x 1.63" w x 7.00" l, 2.92 pounds
- Binding: Hardcover
- 830 pages

Editorial Review

From the Publisher
An exploration of the engineering methods used in industry for analyzing and predicting the mechanical behavior of materials.

From the Back Cover
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Eduardo Baro:

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