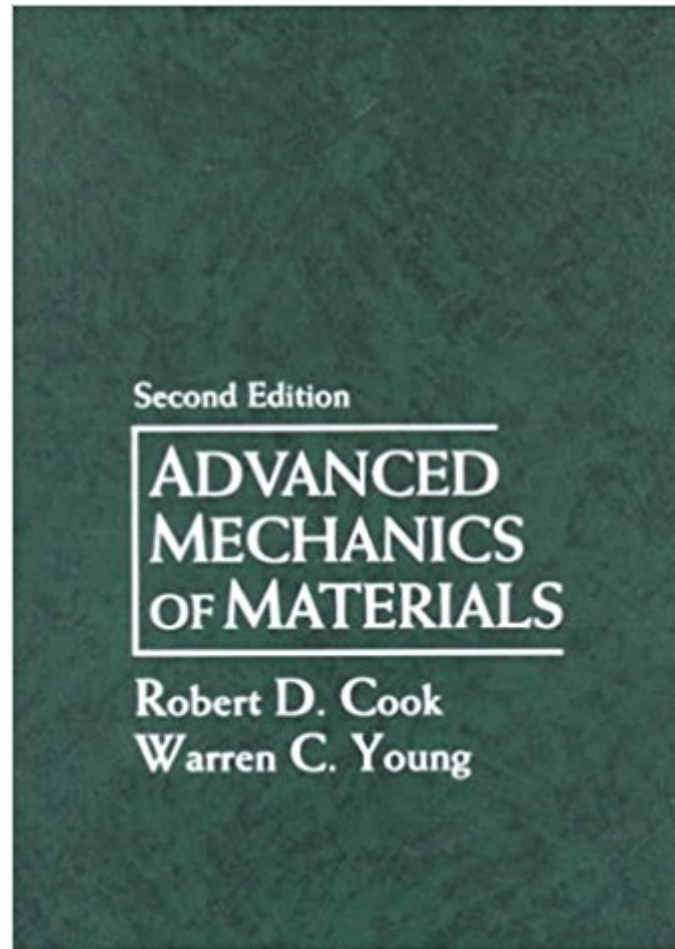




**Ebook Directory**  
the best source of ebook

The book was found

# Advanced Mechanics Of Materials (2nd Edition)



## Synopsis

Treats topics by extending concepts and procedures a step or two beyond elementary mechanics of materials and emphasizes the physical view -- mathematical complexity is not used where it is not needed. Includes new coverage of symmetry considerations, rectangular plates in bending, plastic action in plates, and critical speed of rotating shafts. Expands the coverage of fatigue, the reciprocal theorem, semi-inverse problems in elasticity, thermal stress, and buckling.

## Book Information

Paperback: 496 pages

Publisher: Pearson; 2 edition (September 7, 1998)

Language: English

ISBN-10: 0133969614

ISBN-13: 978-0133969610

Product Dimensions: 6.9 x 1 x 8.9 inches

Shipping Weight: 1.8 pounds (View shipping rates and policies)

Average Customer Review: 3.2 out of 5 stars 19 customer reviews

Best Sellers Rank: #50,335 in Books (See Top 100 in Books) #9 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Polymers & Textiles #12 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Strength of Materials #51 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Materials Science

## Customer Reviews

Treats topics by extending concepts and procedures a step or two beyond elementary mechanics of materials and emphasizes the physical view -- mathematical complexity is not used where it is not needed. Includes new coverage of symmetry considerations, rectangular plates in bending, plastic action in plates, and critical speed of rotating shafts. Expands the coverage of fatigue, the reciprocal theorem, semi-inverse problems in elasticity, thermal stress, and buckling.

Great textbook! Everything you need to know about using energy methods to solve your engineering homework.

Decent book. Covers a lot of material and is well written. Doesn't go into much depth but covers a broad range of topics.

It has some less pages....I had to print it from a soft copy of the book...

If you've just had your undergraduate level course and you're taking a second level or advanced course soon enough that you'll remember the basics this book will work. If you're like me or some of my fellow classmates, you'll have not had your basic course in at least 3 years. If that's the case, get used to using Google to find explanations. This book has two, maybe three, examples per chapter; difficult problems; little to no explanation of concepts; and no answers in the back to check if your work is even correct. It also has no solution manual that I've been able to find. This book is also made extremely cheap. I bought the paperback version and have had paperbacks before, but I'm a month and a half into my class and the book is starting to break along the binding (glue cracking). I would suggest either making it into a spiral-bound book yourself or finding a business that will do it for you before you lose pages. Overall, if you have to have it for a class, I hope you have a good professor because this is not a self-study book that stands up to a lot of page flipping.

They tend to skip large portions of derivations. On the other hand, there is a lot of good information from a design point of view.

Book is in good condition as the seller mentioned and was shipped fast after I placed the order. Overall, a very good seller and I would consider recommend this seller to my colleges.

I agree with those reviewers who contend that the book does not explain things step by step, nor give many worked examples. Still, it gives information that is seldom presented in engineering books. For instance, it shows, in some detail, how membrane theory works in engineering. A section on curved beams shows how irregular cross-sections can be "sliced up" into sections, and then the sections can be summated instead of doing numerical integration. Other topics discuss subjects such as virtual work, beam on Winkler foundation, beams with wide flanges, Saint-Venant's torsion, beams subject to unsymmetric bending, shear center and shear flow, etc.

I was mainly interested in the beam stuff. They have a decent amount of material on beam limit states - both LTB failure and plastic hinge analysis. They include a pretty thorough treatment of unsymmetric cross-sections. I consider these aforementioned topics to be fundamental "advanced mechanics of materials" topics, and I haven't come across any other text that has them all.. so this

book wins by default.

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

Advanced Mechanics of Materials (2nd Edition) Mechanics of Materials (Computational Mechanics and Applied Analysis) Fracture Mechanics of Concrete: Applications of Fracture Mechanics to Concrete, Rock and Other Quasi-Brittle Materials Introduction to Practical Peridynamics: Computational Solid Mechanics Without Stress and Strain (Frontier Research in Computation and Mechanics of Materials) Advanced Molecular Quantum Mechanics: An Introduction to Relativistic Quantum Mechanics and the Quantum Theory of Radiation (Studies in Chemical Physics) Advanced Mechanics of Materials and Applied Elasticity (5th Edition) (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Damage Mechanics of Composite Materials, Volume 9 (Composite Materials Series) Mechanics Of Composite Materials (Materials Science & Engineering Series) Advanced Mechanics of Materials Advanced Mechanics of Materials and Applied Elasticity (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Statics and Mechanics of Materials (2nd Edition) Mechanics of Materials, 2nd Edition Electronic, Magnetic, and Optical Materials, Second Edition (Advanced Materials and Technologies) Engineering Materials 3: Materials Failure Analysis: Case Studies and Design Implications (International Series on Materials Science and Technology) (v. 3) Energetic Materials: Advanced Processing Technologies for Next-Generation Materials Engineering Mechanics: Statics Plus MasteringEngineering with Pearson eText -- Access Card Package (14th Edition) (Hibbeler, The Engineering Mechanics: Statics & Dynamics Series, 14th Edition) Biofluid Mechanics, Second Edition: An Introduction to Fluid Mechanics, Macrocirculation, and Microcirculation (Biomedical Engineering) Computational Fluid Mechanics and Heat Transfer, Third Edition (Series in Computational and Physical Processes in Mechanics and Thermal Sciences) Computational Fluid Mechanics and Heat Transfer, Second Edition (Series in Computational and Physical Processes in Mechanics and Thermal Sciences) Reinforced Concrete: Mechanics and Design (4th Edition) (Civil Engineering and Engineering Mechanics)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)