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# Advanced Mechanics Of Materials (2nd Edition)



Second Edition

ADVANCED MECHANICS OF MATERIALS

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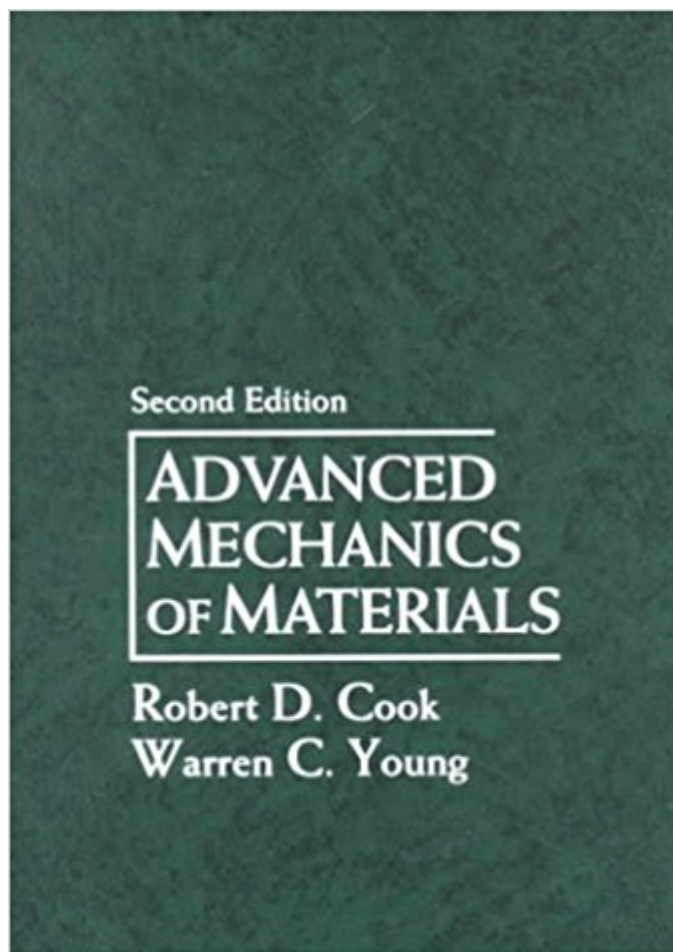
## Synopsis

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

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## Customer Reviews

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.Over all, 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.

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