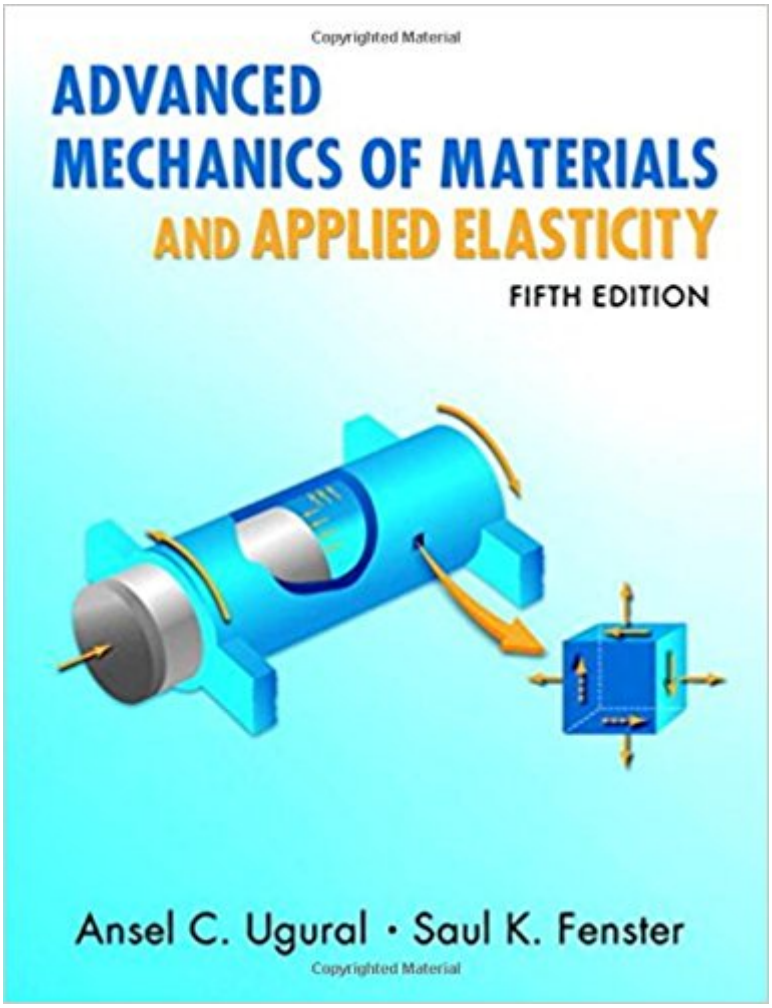
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Advanced Mechanics Of Materials And Applied Elasticity (5th Edition) (Prentice Hall International Series In The Physical And Chemical Engineering Sciences)




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Synopsis

This systematic exploration of real-world stress analysis has been completely updated to reflect state-of-the-art methods and applications now used in aeronautical, civil, and mechanical engineering, and engineering mechanics. Distinguished by its exceptional visual interpretations of solutions, Advanced Mechanics of Materials and Applied Elasticity offers in-depth coverage for both students and engineers. The authors carefully balance comprehensive treatments of solid mechanics, elasticity, and computer-oriented numerical methodsÃ¢â ¬â •preparing readers for both advanced study and professional practice in design and analysis. Ã Â This major revision contains many new, fully reworked, illustrative examples and an updated problem setÃ¢â ¬â •including many problems taken directly from modern practice. It offers extensive content improvements throughout, beginning with an all-new introductory chapter on the fundamentals of materials mechanics and elasticity. Ã Â Readers will find new and updated coverage of plastic behavior, three-dimensional MohrÃ¢â ¬â„¢s circles, energy and variational methods, materials, beams, failure criteria, fracture mechanics, compound cylinders, shrink fits, buckling of stepped columns, common shell types, and many other topics. The authors present significantly expanded and updated coverage of stress concentration factors and contact stress developments. Finally, they fully introduce computer-oriented approaches in a comprehensive new chapter on the finite element method.

Book Information

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Customer Reviews

Ansel C. Ugural, Ph.D., is a visiting professor at the New Jersey Institute of Technology. He has held various faculty and administrative positions at Fairleigh Dickinson University, and previously taught at the University of Wisconsin. Ugural has extensive industrial experience, is a member of several professional societies, and is author of Mechanics of Materials (Wiley, 2007), Stresses in Beams, Plates and Shells (CRC Press, 2009), and Mechanical Design: An Integrated Approach (McGraw-Hill, 2004). Ã Â Saul K. Fenster, Ph.D., was a professor at the New Jersey Institute of Technology, where he served as president for over twenty years. He is a fellow of the American Society of Mechanical Engineers and the American Society for Engineering Education.

If I had bought the physical copy of the book I would have used it as a door stopper or an overpriced paperweight. Other school notes are more helpful than this "book". The lack of examples in this book is irritating when you depend on the book to explain the theory while the professor urges you to use it. If this had more example problems solved, I would be satisfied with it.

If your mostly familiarized with books from Hibbeler then you may be struct by the fact that this book doesn’t have all the colored and beautifully presented graphics, but the fact is that it has everything you’ll need. The theoretical explanations are very straight forward and the examples are pretty precise.Good luck everyone!

I used this textbook for my undergraduate class. The problem sets were good, but the textbook contained so many errors that my professor asked us not to read the book to avoid confusion. The most starling error is the one of the moment of inertia equations in the back of the book. Do not use this textbook as a reference book.

Class book.

it is not typical read then test book, all information that is stated in examples within text, must be examined carefully, this is why I like it, nothing is straight forward. This was the only book that I bought in this semester, and it got stolen in three weeks ^^. Previous version have same examples.

Not a good book, there is not enough adherence btween the chapters and each chapter has very few examples.

This book struggles to find a good voice to present the material. It's examples are okay, the problems take a bit of work to exactly figure out what is being asked on occasion. The book overall doesn't do a decent job at presenting new concepts. I only have this book because it was required for the course I am taking and I have barely cracked it open as I can get by better with the course notes and google.

The book really dives into theory without providing real world examples, or any examples for that matter. It was not the easiest book to follow, but it did have great problems to be used for class assignments. It is a better class supplement than a standalone learning tool.

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