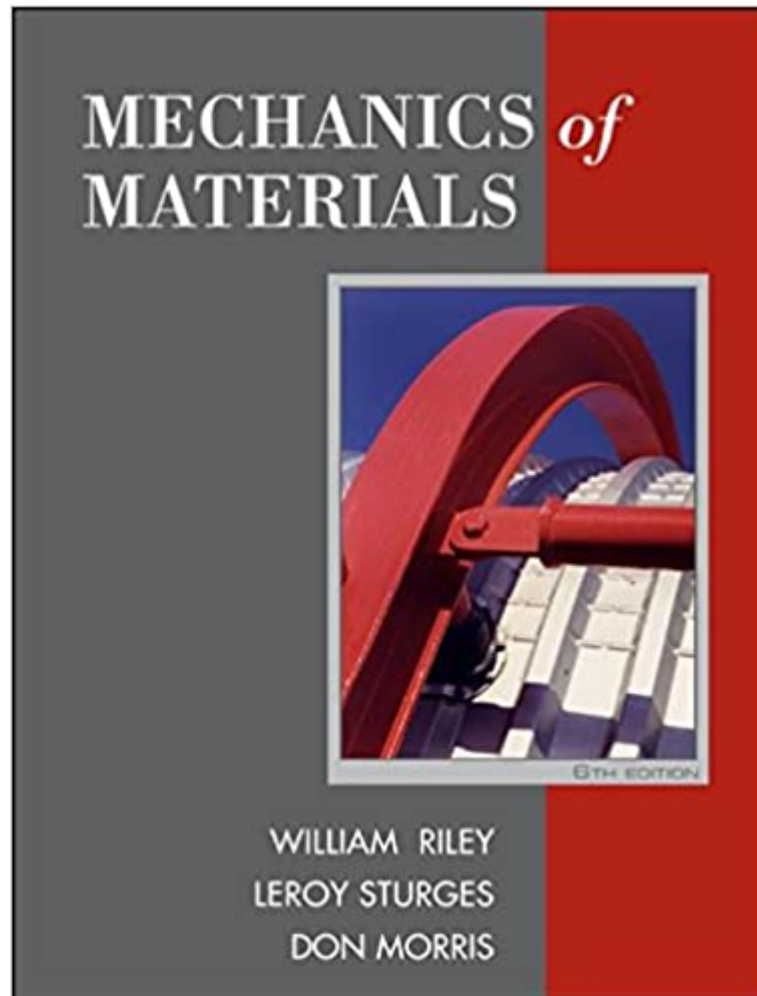




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Mechanics Of Materials



Synopsis

This leading book in the field focuses on what materials specifications and design are most effective based on function and actual load-carrying capacity. Written in an accessible style, it emphasizes the basics, such as design, equilibrium, material behavior and geometry of deformation in simple structures or machines. Readers will also find a thorough treatment of stress, strain, and the stress-strain relationships. These topics are covered before the customary treatments of axial loading, torsion, flexure, and buckling.

Book Information

Hardcover: 720 pages

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Average Customer Review: 3.2 out of 5 stars 17 customer reviews

Best Sellers Rank: #28,684 in Books (See Top 100 in Books) #9 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Strength of Materials #11

in Books > Engineering & Transportation > Engineering > Civil & Environmental > Structural #20 in Books > Science & Math > Physics > Mechanics

Customer Reviews

A CLEAR AND THOROUGH GUIDE, WITH A STRONG PROBLEM-SOLVING METHODOLOGY In this sixth edition of Mechanics of Materials, Riley, Sturges, and Morris continue to provide a clear and thorough treatment of stress, strain, and stress-strain relationships, as well as axial loading, torsion, flexure, and buckling. Throughout the text, they emphasize fundamental principles, with numerous applications to demonstrate and develop logical, orderly methods of analysis. The authors equip students with an effective problem-solving methodology. They encourage students to draw free body diagrams whenever they write an equation of equilibrium, reduce problems to a series of simpler component problems, and present results in a clear manner. Now revised, this sixth edition features many new examples and homework problems, a consistent sign convention for internal forces, expanded and improved discussion of the stress element, and new sections on combined loading. NEW MECMOVIES PROMOTE VISUALIZATION Winner of the Premier Award

for Excellence in Engineering Education Software, MecMovies, by Tim Philpott of University of Missouri, is a series of interactive tutorials, quizzes, problems, and games to support lectures and self-study. Icons in the margins of the text direct readers to appropriate sections of MecMovies. You can access MecMovies through the book's companion website. www.wiley.com/college/riley

Does a good job of teaching the fundamentals. I wish it did more to incorporate shear and moment diagrams though. I understand this might be usually covered in statics, but it goes with the content covered in mechanics (strength) of materials I think...and my statics book did not cover it well enough.

This textbook didn't help me learn solid mechanics very well. The material is presented in ways which aren't very clear and lack corresponding real-world examples. I found myself more frustrated and googling information instead. I would recommend Hibbeler's textbook of the same name instead, honestly.

I had to get this book for my Mechanics class as required for the homework and for reference. I'm not going to say I absolutely love the book (its hard to justify paying so much for a textbook) but I will say its one of the better textbooks I've owned. Overall its not an easy read and you need to have both a good conceptual and technical background.

Item was NOT as described. I ordered a textbook that was in Good condition. The first 96 pages of the textbook were very badly bent. Extremely disappointed.

Great information and the presentation is also very neat. Definitely one of the better books by Riley

I got it from apex_media and instead of mechanics of materials I got "Theory of Machines and Mechanisms".

There are a lot of homework problems that aren't really covered well in the chapters. It is good at explaining most things though and example problems aren't too difficult to follow.

The book was in very good condition and arrived on time. It was missing the CD but I suppose there wasn't one specified at purchase.

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