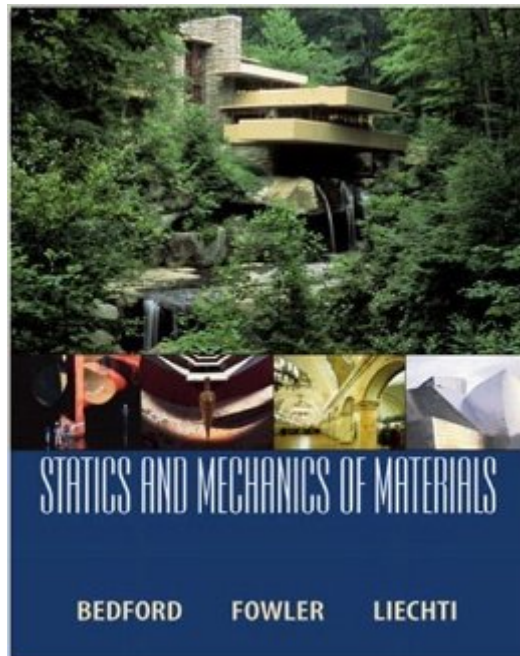


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# Statics And Mechanics Of Materials



## Synopsis

This book presents the foundations and applications of statics and mechanics of materials by emphasizing the importance of visual analysis of topics especially through the use of free body diagrams. It also promotes a problem-solving approach to solving examples through its strategy, solution, and discussion format in examples. The authors further include design and computational examples that help integrate these ABET 2000 requirements. Chapter topics include vectors, forces, systems of forces and moments, objects in equilibrium, structures in equilibrium, centroids and centers of mass, moments of inertia, measures of stress and strain, states of stress, states of strain and the stress-strain relations, axially loaded bars, torsion, internal forces and moments in beams, stresses in beams, deflections of beams, buckling of columns, energy methods, and introduction to fracture mechanics. For civil/aeronautical/engineering mechanics.

## Book Information

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The approach in this book is a lot different than that which engineering students will learn in their Physics classes. This book uses a lot of calculus once you get past chapter seven, so make sure you have taken at LEAST up to Calculus III before you embark on the wondrous journey of attempting to understand shear and moment diagrams. And there's a sufficient number of errors in the chapter two, three, and I think chapter six solutions. Make sure you ask your professor about them. Not too terribly hard to get through, though. If you're studious and intelligent, you'll be fine.

excellent book in great condition. i did not know this, but my bookstore was selling PAPERBACK versions of this book. It is nice to have a nicer hardcover copy. Thanks!

After about 2 weeks of moderate use, I noticed that some pages were starting to tear out of the book -- the binding is not well glued together.

The book is organized in an inefficient way - the problems are scattered in a chapter and many times are not explained well.

good book for class

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