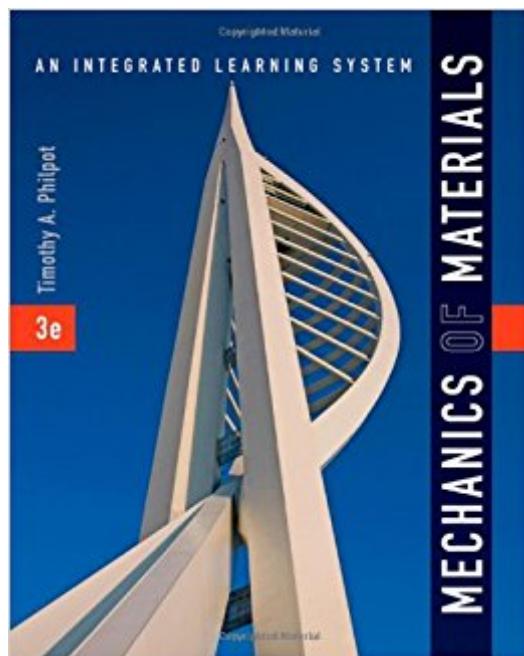


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# Mechanics Of Materials: An Integrated Learning System



## **Synopsis**

Now in its 4th Edition, Timothy A. Philpot's Mechanics of Materials: An Integrated Learning System continues to help engineering students visualize key mechanics of materials concepts better than any other text available, following a sound problem solving methodology while thoroughly covering all the basics. The fourth edition retains seamless integration with the author's award-winning MecMovies software. Content has been thoroughly revised throughout the text to provide students with the latest information in the field.

## **Book Information**

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## **Customer Reviews**

Don't just memorize the mechanics of materials. "Visualize them." You know you really understand an engineering subject when you can visualize it in your "mind's eye." This is especially true of the mechanics of materials, one of the most challenging subjects you'll need to master along the way to your engineering degree. In "Mechanics of Materials: An Integrated Learning System, " Timothy A. Philpot uses his award-winning MecMovies software to help you clearly visualize and understand mechanics phenomena thoroughly and easily. MecMovies are a collection of animations, tutorials, games, and examples that have been proven to increase students' visualization skills, confidence level in solving problems, and interest in the subject matter. Integrating the MecMovies instructional software throughout, "Mechanics of Materials: An Integrated Learning System" gives you extensive hands-on practice as you cover everything from stress and strain to bending, transverse shear, and combined loads. Get the most out of the unique interactive experience of "Mechanics of Materials" with these hallmark features: Visual communication uses stunning in-text illustrations and

MecMovies to illuminate the subject and impress in your "mind's eye" mental imagery needed to transfer the concepts to differing situations Problem-solving schema give you the tools to organize and visualize the concepts and problem-solving procedures Clear, well-written commentary explains why various steps are taken & illustrations help Numerous, clear examples--over 940 homework problems in all--build your technical skills and prepare you for success in your subsequent engineering design courses --This text refers to the Loose Leaf edition.

Timothy A. Philpot is an Assistant Professor in the Basic Engineering Department and a Research Associate for the Instructional Software Development Center at Missouri University of Science and Technology, Rolla, Missouri . Dr. Philpot has won several awards for his work in developing engineering education software, including the 1998 Premier Award for MDSolids and the 2004 Premier Award for MecMovies. MecMovies was a winner of the 2004 NEEDS Premier Award competition as well as a winner of the 2006 MERLOT Classics and MERLOT Editors' Choice Awards for Exemplary Online Learning Resources. He is chair-elect of the Mechanics Division of ASEE. --This text refers to the Loose Leaf edition.

Used this book for my Mechanics of Materials class in college. This book is made from the same guy who created the MecMovies site, which is very helpful for homework and studying for tests ( if you don't know MecMovies, just type the name on Google or any search site, and click on the first link to find many interactive diagrams and exercises to help learn the subject). I recommend you use this book with the MecMovies. It is much more comprehensive and better and the book in the same subject written by Gere and Goodno. The problems are fair for the material covered in the chapters, and there's plenty of example problems and exercises to prepare you for the actual homework problems. Its one of the better textbooks I've studied from.

We had a mechanical engineering student in for the summer from one of the local colleges. I assigned him an analysis and he got through it pretty well. He showed me his references, and this was one of them. I marvel at the graphics that are in modern engineering textbooks. They make visualization of a problem much easier I think. The book is expensive, but I bit the bullet because I wanted to review shear flow. It was worth the money to me.

It's decent

This is what got me through class. It's not too difficult to understand, but I just wish it would explain a few concepts some more. Besides that, it's a fantastic book.

Great book, fast shipping!

I bought it for my engineering class, and it came in perfect condition. I'm happy with it

Great book and supplementary online videos. The examples in this book are clear and concise with an explanation in each step. Easy read.

There are some typos, but over all the best book on the market

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