



Mechanics of Materials: An Integrated Learning System

By Timothy A. Philpot

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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.

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Editorial Review

From the Back Cover

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

About the Author

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.

Users Review

From reader reviews:

Jan Doyle:

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