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# **Visualization, Modeling, And Graphics For Engineering Design (Available Titles CourseMate)**



## Synopsis

A new book for a new generation of engineering professionals, *Visualization, Modeling, and Graphics for Engineering Design* was written from the ground up to take a brand-new approach to graphic communication within the context of engineering design and creativity. With a blend of modern and traditional topics, this text recognizes how computer modeling techniques have changed the engineering design process. From this new perspective, the text is able to focus on the evolved design process, including the critical phases of creative thinking, product ideation, and advanced analysis techniques. Focusing on design and design communication rather than drafting techniques and standards, it goes beyond the "what" to explain the "why" of engineering graphics.

## Book Information

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## Customer Reviews

Dennis K. Lieu is professor of mechanical engineering at the University of California, Berkeley, where he was formerly the associate dean of student affairs. He also received his B.S., M.S., and D.Eng. in mechanical engineering from U.C. Berkeley. After working for six years as a design engineer in industry, he returned to his alma mater to join its faculty. Professor Lieu has taught engineering graphics for over 25 years and has been a member of the Engineering Design Graphics Division of the American Society for Engineering Education (ASEE) for 23 years. His research interests are in the design of electro-mechanical machines and the design of sports equipment, and he is the author or co-author of numerous articles on engineering graphics education. He is a

member of Tau Beta Pi, Pi Tau Sigma, and Phi Beta Kappa, as well as a recipient of the University of California Distinguished Teaching Award and the Orthogonal Medal awarded by North Carolina State University, for his contributions to engineering graphics education. Sheryl A. Sorby is a professor of engineering education at The Ohio State University. She previously served as associate dean for academic programs and department chair of engineering fundamentals at Michigan Technological University. Professor Sorby received the Sharon Keillor award from the American Society for Engineering Education (ASEE), recognizing outstanding women engineering faculty. She was also the recipient of the Betty Vetter research award through the Women in Engineering Program Advocates Network (WEPAN), for her work in improving the success of women engineering students through the development of a spatial skills course. She has received the Engineering Design Graphics Distinguished Service Award, the Distinguished Teaching Award, and the Dow Outstanding New Faculty Award from ASEE as well, and she serves the organization as associate editor of advances in engineering education.

very good book in excellent condition.

This book is very well written. It is written in a way that is not specific to any CAD software package, it is generalized in that regard. It is very detailed at what tries to teach and often gives analogies so that the reader can better understand the concepts. The author seems knowledgeable about the subject and there are plenty of illustrations. It is a bit pricey, but it is worth it. I learned a lot from this book and I had no previous knowledge of or experience with any CAD software.

If you're taking a course about engineering design and your professor selected this book he/she made a good decision. I first it looks a bit intimidating because of its size and weight; don't be. This book explain everything in a simple and uncomplicated manner all the concepts you need to learn. You don't have be a NASA engineers in order for you to understand what they are saying. I started reading my assignment, basically read through chapter 1, and I got so sucked into it that I end up reading up to half of chapter 3. Overall it's a nice book to learn how engineers work up to a final design.

I wish they had a picture of the cover of the book, but it is the exact book I needed!

Excellant

This is a "keeper" book. I will not sell it when the course is completed. It has all the basics one needs for learning and using SolidWorks.

The book I got doesn't have all the chapters.OK,same name and same ISBN but different book.It written Fundamentals on the bottom of the book.Choose carefully~~~~~

book was flawless!

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