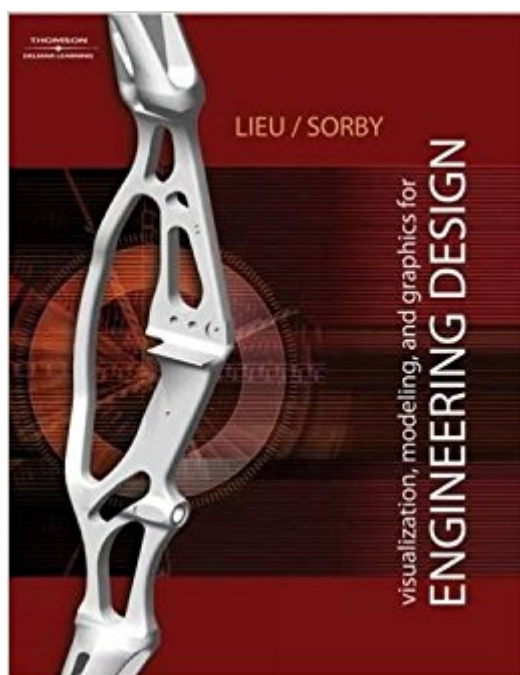


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# The Fundamentals Of Visualization, Modeling, And Graphics For Engineering Design



## 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

An Introduction to Graphical Communication in Engineering. Sketching. Visualization. Working in a Team Environment. Creativity and the Design Process. Solid Modeling. Assembly Modeling. Design Analysis. Fabrication Processes. Orthogonal Projection and Multiview Representation. Advanced Visualization Techniques. Pictorial Drawings. Section Views. Back of book CD-ROM contains topics for: Dimensioning. Tolerancing. Fasteners. Working Drawings.

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*.

awesome

"The seller is great. The book however has much to be desired. For CADD and hand drawings in general, it's okay. But, if you need help learning a specific CADD program (e.g. Creo, AutoCad, Inventor, SolidWorks) this book is really no help. It seems to have lots of notes about engineering standards, so it would probably be good as a reference guide for someone who already knows CADD. However, if you are new to engineering design and don't know how to operate CADD software, then this book is not for you. I bought it for a college course but I think I've only looked at it once. So, the seller is great; the book... not so much."

I bought this a used book without a CD, as a reference for my job as a Mechanical Engineer who does a lot of CAD work and Thin-Line sketches. I particularly bought it for chapters 15-17 (dimensioning, tolerancing, and fasteners), which were areas I needed to brush up in. I get the used book, only to find out that the last four chapters (the chapters I needed the most) can only be found

on the CD... and I just bought it without the CD. Had I known beforehand that these chapters were only on CD, I wouldn't have bought the book in the first place - even with the CD! I want a physical reference source, not a digital reference source.

The book was supposed to be new but it was NOT. However it was like a new book and the price was great. I am okay with this purchase but dishonesty makes me don't purchase from them again.

Please be aware that this version (The Fundamentals of...) only includes the first 18 chapters of the full book by the same name. Unless you are a complete newb to drafting/engineering drawings, then the first 5 chapters are not so useful. Ch 6 begins solid modeling and is where the book really starts. The late teens chapters are very densely packed with lots of good information.

Book for my child for school. Nothing to "love" or "dislike" about it as it's just a school book.

Purchase went smoothly.

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