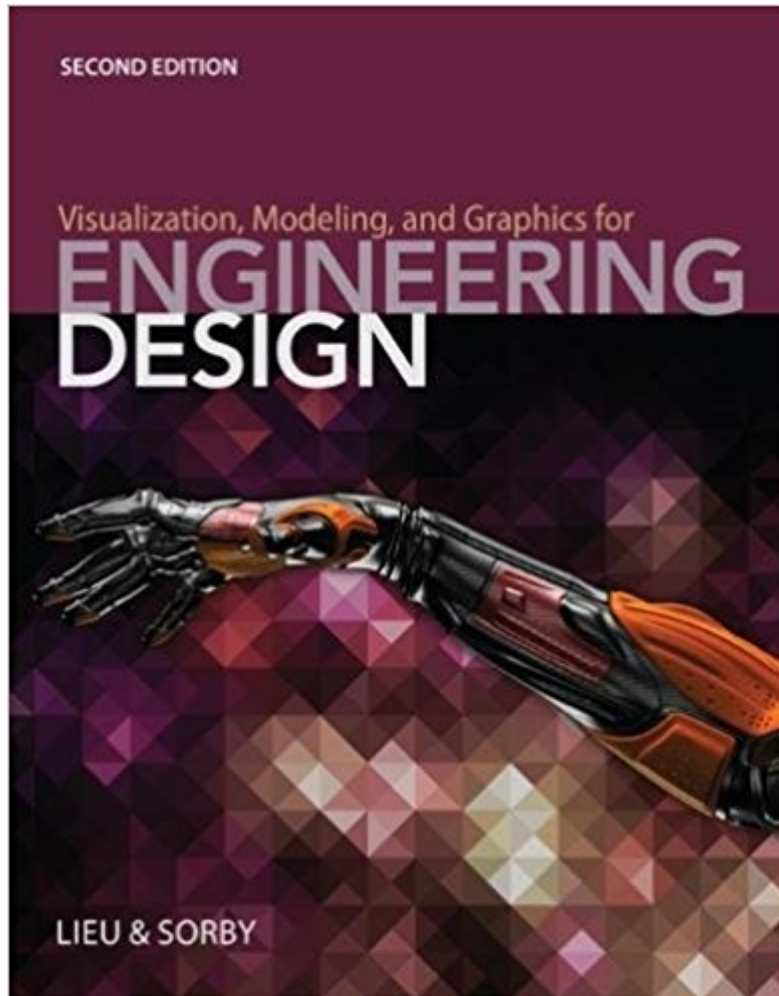




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Visualization, Modeling, And Graphics For Engineering Design



Synopsis

Created for the next generation of engineering professionals, **VISUALIZATION, MODELING, AND GRAPHICS FOR ENGINEERING DESIGN**, Second Edition, combines coverage of traditional drafting essentials and the cutting-edge technology and methods today's professionals need to master for career success. This versatile text provides a strong grounding in fundamentals including core design skills, geometric dimensioning and tolerancing, sketching and drawing, and industry- and discipline-specific applications, even while recognizing how computers have enabled visualizing and modeling techniques that have changed the engineering design process. Working from this modern perspective, the authors explore critical process phases such as creative thinking, product ideation, and advanced analysis, as well as problem solving, collaboration, and communication skills essential for today's engineers and technicians. In addition to numerous updates to reflect the latest technology and trends, the Second Edition of this groundbreaking text features a more streamlined presentation, with a mix of printed and online chapters and a highly modular structure that make it easy to focus on specific topics or interests.

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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.

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