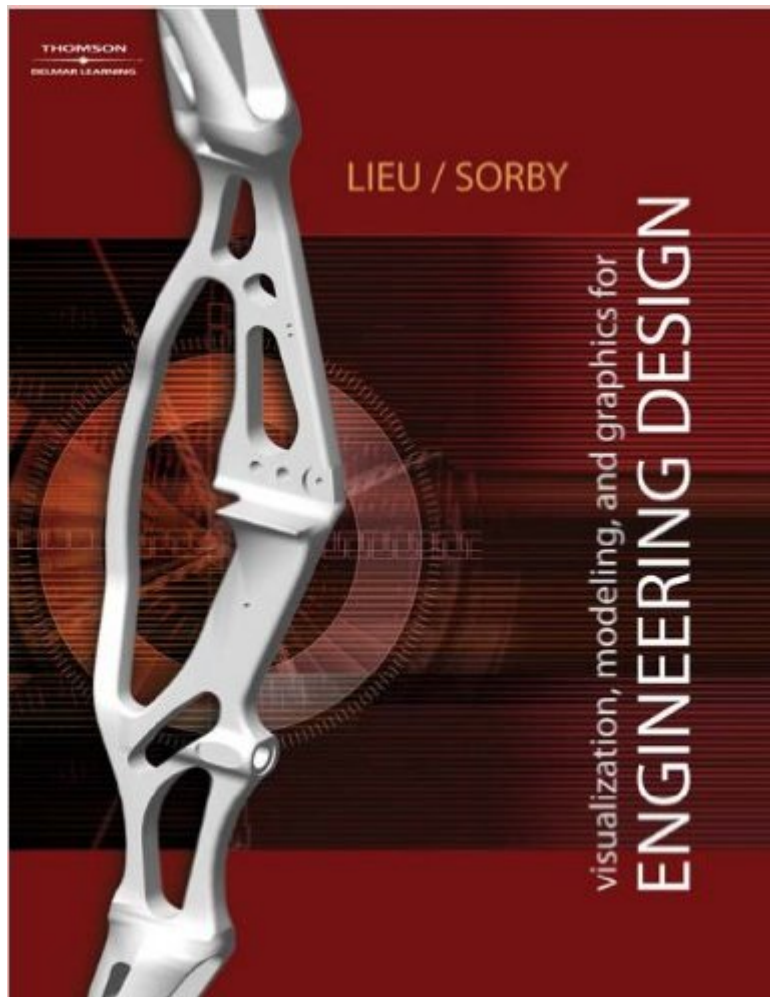# The Fundamentals Of Visualization, Modeling, And Graphics For Engineering Design

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

Paperback: 816 pages

Publisher: Cengage Learning; 1 edition (February 7, 2008)

Language: English

ISBN-10: 140184250X

ISBN-13: 978-1401842505

Product Dimensions: 1.5 x 8.2 x 11 inches

Shipping Weight: 3.6 pounds (View shipping rates and policies)

Average Customer Review: 3.2 out of 5 starsÂ Â See all reviewsÂ (6 customer reviews)

Best Sellers Rank: #369,562 in Books (See Top 100 in Books)   #33 inÂ Books > Engineering & Transportation > Engineering > Design   #101 inÂ Books > Engineering & Transportation > Engineering > Mechanical > Drafting & Mechanical Drawing   #479 inÂ Books > Arts & Photography > Architecture > Drafting & Presentation

Customer Reviews

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.

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 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, SoldWorks) 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 opperate 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."

The Fundamentals of Visualization, Modeling, and Graphics for Engineering Design Engineering Design Graphics: Sketching, Modeling, and Visualization Engineering Design Graphics: Sketching, Modeling, and Visualization, 2nd Edition Visualization, Modeling, and Graphics for Engineering Design Visualization and Engineering Design Graphics with Augmented Reality (Second Edition) Computer Graphics Through OpenGL: From Theory to Experiments (Chapman & Hall/CRC Computer Graphics, Geometric Modeling, and Animation) College Algebra with Modeling & Visualization (5th Edition) College Algebra with Modeling & Visualization plus NEW MyMathLab with Pearson eText -- Access Card Package (5th Edition) (Rockswold Series) Introduction to the Numerical Modeling of Groundwater and Geothermal Systems: Fundamentals of Mass, Energy and Solute Transport in Poroelastic Rocks (Multiphysics Modeling) 3D Fashion Design: Technique, design and visualization Engineering Design Communications: Conveying Design Through Graphics (2nd Edition) Mathematical Modeling of Collective Behavior in Socio-Economic and Life Sciences (Modeling and Simulation in Science, Engineering and Technology) Graphics Gems IV (IBM Version) (Graphics Gems - IBM) (No. 4) Fundamentals of Earthquake Engineering (Civil engineering and engineering mechanics series) The Complete Guide to Blender Graphics, Second Edition: Computer Modeling and Animation Engineering Design and Graphics with SolidWorks 2016 Visualize This: The FlowingData Guide to Design, Visualization, and Statistics Cool Infographics: Effective Communication with Data Visualization and Design How Maps Work: Representation, Visualization, and Design Engineering Design Graphics (11th Edition)