



Engineering Graphics (8th Edition)

By Frederick E Giesecke, Alva Mitchell, Henry C Spencer, Ivan L Hill, John T Dygdon, James E. Novak, Robert Olin Loving

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For courses in Engineering Graphics/Technical Drawing and Drafting/Technical Sketching. This authoritative text dominates the market by offering the best coverage of basic graphics principles and an unmatched set of fully machineable working drawings. Its practical, well illustrated, step-by-step explanations of procedures have successfully trained students for 60 years, and continue to appeal to today's visually oriented students. - Instructors Manual - Includes teaching tips, quiz questions and a CD ROM with answer files for over 400 drawings, plus all the art from the text in pdf format. - Increased coverage of design processes in Chapter 14 - From the basics of design to 3-D solid modeling, and parametric or constraint based modeling. - Completely revised chapter on manufacturing processes. much needed modernization of important chapter. - Over 40 new problems. - Coverage of Geometric Dimensioning and Tolerancing. - Extensive updating of text graphics. - Graphics Spotlight feature. - FREE Student CD - Includes classic Giesecke chapters on Graphs and Diagrams and Alignment charts, along with 40 animation concepts, provides important reference material and keeps book size small

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- Sales Rank: #477809 in Books
- Brand: Brand: Peachpit Press
- Published on: 2003-08-22
- Ingredients: Example Ingredients
- Original language: English
- Number of items: 1
- Dimensions: 10.10" h x 1.40" w x 8.10" l, 3.74 pounds
- Binding: Hardcover
- 816 pages

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Editorial Review

From the Publisher

The new edition of this book continues to provide thorough coverage of technical drawing and design, descriptive geometry, graphs and graphical computation, and computer graphics. It contains a wide range of problems and can be used as a reference manual. Expanded coverage of computer graphics introduces readers to this emerging and powerful technology. The authors have incorporated new industrial practices, trends, and developments. The increased emphasis on the design function of the engineer is evident throughout.

From the Inside Flap

PREFACE ABOUT THIS BOOK

Over the last sixty years, Engineering Graphics has taught well over a million students the practices and techniques of graphical communication. Both instructors and their students have come to depend on this text as the authority on the subject, and most students have used this book as a professional reference long after they have finished taking this course. Why has this book been so successful? First, the main goal of the text has always been to explain each principle so clearly that the student is certain to understand it, and to make the text interesting enough to encourage all students to read and study on their own. Secondly, this book has also had what are unquestionably the best, most detailed, and accurate set of drawings on the market. A student skilled with this book's drawings will have a full repertoire of graphical skills in his or her hands. Lastly Engineering Graphics has continually sought to address the new technologies, and the skills that constantly change this field. By doing so, this text prepares students to enter the marketplace and face the challenges of a rapidly changing playing field. **THE SEVENTH EDITION**

The Seventh Edition of Engineering Graphics continues to offer the best coverage of basic graphics principles available. Edition after edition, this text serves as the authoritative source on the subject. With this new version, we have acted upon the requests of over 30 reviewers to improve certain aspects of the book while preserving its core presentation. In particular, this new volume features:

Greatly increased coverage of design process in chapter 14. This chapter now includes coverage of 3-D solid modeling, and parametric or constraint based modeling. Thoroughly revised chapter on manufacturing processes. We especially thank Professor Serope Kalpakjian of the Illinois Institute of Technology and the author of Manufacturing Engineering and Technology for his assistance with this chapter. Over 50 brand new problems — These problems feature parts that are not cast iron and that from a variety of industries. Material on Instrumental Drawing and Lettering condensed to one chapter. New coverage of Geometric Dimensioning and Tolerancing. Extensive updating of text graphics to comply to most recent ANSI standards. New "Graphics Spotlights" feature that highlights a particular use of graphics in industry. A decrease in the overall size of the book — Instructors have told us that students are finding books too large. However, they want their students to have access to important reference material. To achieve both these goals, we have eliminated chapters on Graphs and Diagrams and Alignment Charts included in the last edition, and included them in Adobe pdf format on a free CD. This CD also contains over 30 animations of graphics concepts. Updated web site prehall/giesecke now includes even more questions for review, as well as a new feature available for January of 2000 that lets professors create their own on-line syllabus. Using a simple interface, instructors build a graphic assignment list and use it to interact with their class over the web. This site also features links to other graphics related areas, a selection of animations available for class

instruction or student review, an exploration of VRML technology, a case studies exploring how graphics communication is handled at an engineering company, and more. This site will be a constant resource to help instructors and students remain as current as possible. Eight Page Color Insert — To give students a feel for how color is often used in CAD software and other technological processes, but without overloading and obscuring the book's core content, we have included an eight page color insert. SUPPLEMENTS
INSTRUCTOR'S MANUAL WITH SOLUTIONS/RESOURCE CD

This new manual prepared by Tom Kane of Pueblo Community College includes outlines, teaching tips, extra quiz questions, and other tools designed to aid in class preparation. In addition, this manual comes with a new CD-ROM containing answer files for over 450 Giesecke drawing problems. The problems are in both dwg and dxf form for easy electronic access and display. This CD also includes pdf files of all art in the text for quick integration in course web pages. Instructors have long asked for this supplement and we are happy to provide it with the new edition. WORKBOOKS

Three workbooks with additional problems are available. These workbooks are fully class tested for effectiveness and relevance to the course. They range from having more traditional problems to more modern approaches.

Engineering Drawing, Problem Series 1 (ISBN—0-13658536-1): Contains traditional, mechanical workbook problems. Engineering Drawing, Problem Series 2 (ISBN—0-13658881-6): Contains traditional problems with an emphasis on engineering concepts. Engineering Drawing, Problem Series 3, New 2nd Edition (ISBN—0-13-025954-3): The new edition of a workbook by Paige Davis and Karen Juneau of the Louisiana State University. This book contains modern problems, as well as an extensive CAD based project, and comes with its own disk of starter CAD files. WORLDWIDE WEB SITE—

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AVAILABLE WITH SYLLABUS BUILDER FOR
JANUARY 2000

In order to provide instructors and their students with the most exciting information available, Prentice Hall has created the Giesecke Web Site. This site now includes even more questions for review, as well as a new feature available for January of 2000 that lets professors create their own on-line syllabus. Using a simple interface, instructors build a graphic assignment list and use it to interact with their class over the web. This site features links to other graphics related areas, a selection of animations available for class instruction or student review, an exploration of VRML technology, a case study exploring how graphics communication is handled at an engineering company, and more. We hope it will be a constant resource to help instructors and students remain as current as possible. PRENTICE HALL NEW YORK TIMES SUPPLEMENT

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CAD, either contact your Prentice Hall Sales Rep, or go to prenhall/cadgraphics/. For the name and number of your sales rep, please contact Prentice Hall Faculty Services at 1-800-526-0485.

From the Back Cover

The Eighth Edition of *Engineering Graphics* continues to offer the strongest coverage of basic graphics principles. Edition after edition, this text serves as the authoritative source on the subject. With this new edition, we have acted upon the requests of reviewers and survey respondents to improve certain aspects of this book while preserving its core presentation.

In particular, the new edition features:

- **New Instructor System:** Contains Instructor's Resource Guide in both hardcopy and MS Word files, 300 question concept testbank in hardcopy and in MS Word, pdf files of text art, MS PowerPoint slides of key figures, and AutoCAD files of solutions.
- **www.prenhall.com/giesecke** : Updated to contain over **35 large format, Flash and Windows Media Player animations** of concepts keyed to sections/figures in the text, **Self-Grading Concept Questions**—T/F, multiple choice, and fill-in-the-blank questions for each chapter, *Essay Review Questions*, *Reference Chapters* on Graphs, alignment Charts, Empirical Equations and Graphical Mathematics, **Chapter Summaries and Objectives**, **Links**—a robust links section on CAD and technical drawing, **PowerPoint/PDF files** of art from the text, and **Edrawings**—a new solid modeling technology that lets you view, rotate, and annotate solid models without any special software.
- New four-color signature of key drawing techniques/illustrations
- Content Updates throughout including many new Graphics Spotlight features on topics such as idea generation, internet drawing communication, and using graphics to design surfboards.
- New Drawings problems at the end of many chapters and new screen captures throughout the book.
- All art completely rechecked for accuracy.

Users Review

From reader reviews:

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Scott Harrington:

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