



Technical Drawing with Engineering Graphics (15th Edition)

By Frederick E Giesecke, Alva Mitchell, Henry C Spencer, Ivan L Hill, John T Dygdon, James E. Novak, R. O. Loving, Shawna Lockhart, Cindy Johnson

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This full-color text offers a clear, complete introduction and detailed reference for creating 3D models and 2D documentation drawings. Building on its reputation as a trusted reference, this edition expands on the role that 3D CAD databases now play in design and documentation. Superbly integrated illustrations, text, step-by-step instructions, and navigation make it easier than ever to master key skills and knowledge. Throughout, the authors demonstrate 3D and 2D drawing skills and CAD usage in real-world work practice in today's leading disciplines. They combine strong technical detail, real-world examples, and current standards, materials, industries, and processes—all in a format that is efficient, colorful, and visual.

Features:

- **Splash Spread:** Appealing chapter opener provides context and motivation.
- **References and Web Links:** Useful weblinks and standards provided upfront in each chapter.
- **Understanding Section:** Foundational introductions, tabbed for easy navigation, outline each topic's importance, use, visualization tips, and theory.
- **Detail Section:** Detailed, well-tested explanations of drawing techniques, variations, and examples—organized into quick-read sections, numbered for easy reference.
- **CAD at Work Section:** Breakout pages offer tips on generating drawings from 2D or 3D models.
- **Portfolio Section:** Examples of finished drawings show how techniques are applied in the real world.
- **Key Words:** Italicized on first reference, summarized after each chapter.
- **Chapter Summaries and Review Questions:** Efficiently reinforce learning.
- **Exercises:** Outstanding problem sets with updated exercises, including parts, assembly drawings from CAD models, sketching problems, and orthographic projections.

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- Sales Rank: #591695 in Books
- Published on: 2016-07-18
- Original language: English
- Number of items: 1
- Dimensions: 11.00" h x 1.40" w x 8.70" l, .0 pounds
- Binding: Hardcover
- 1024 pages

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