



# AutoCAD Tutor for Engineering Graphics: 2013 and Beyond (with CAD Connect Web Site Printed Access Card) (Autodesk 2013 Now Available!)

By Kevin Lang

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AUTOCAD TUTOR FOR ENGINEERING GRAPHICS: 2013 AND BEYOND is a thorough, practical guide featuring self-paced tutorials and a step-by-step approach to help you use and customize AutoCAD to achieve professional results. Tutorials follow traditional engineering drawing techniques and methods while guiding you from simple one-view engineering drawings to geometric constructions, multiview projections, section and auxiliary views, 3D solid modeling, and photorealistic rendering. This proven guide emphasizes skill development to enable you to confidently translate layouts, specifications, and calculations from engineers and architects into detailed drawings, maps, plans, and other documents necessary to create products. Detailed coverage of AutoCAD features and capabilities, along with a strong emphasis on mechanical exercises and practical engineering applications, make this trusted resource an ideal reference for both individual learning and professional use. In addition, extensive online material offers additional information and tools, including detailed updates provided regularly between major new releases of the AutoCAD software.

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1. Getting Started with AutoCAD. 2. Drawing Setup and Organization. 3. AutoCAD Display and Basic Selection Operations. 4. Modifying Your Drawing. 5. Performing Geometric Constructions. 6. Working with Text, Fields, and Tables. 7. Object Grips and Changing the Properties of Objects. 8. Multiview and Auxiliary View Projections. 9. Creating Section Views. 10. Adding Dimensions to Your Drawing. 11. Managing Dimension Styles. 12. Analyzing 2D Drawings. 13. Creating Parametric Drawings. 14. Working with Drawing Layouts. 15. Plotting Your Drawings. 16. Working with Blocks. 17. Working with Attributes. 18. Working with File References. 19. Advanced Layout Techniques. 20. Solid Modeling Fundamentals. 21. Concept Modeling and Editing Solids, and Surface Modeling 22. Creating 2D Drawings from a 3D Model. 23. Producing Renderings and Motion Studies.

#### **About the Author**

Kevin J. Lang is the program coordinator for engineering design graphics at Trident Technical College in Charleston, South Carolina. He has a B.S. in Mechanical Engineering from the University of South Carolina and more than 30 years experience in the engineering field, including 15 years teaching CAD related subjects at the college level.

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