

# Introduction to AutoCAD

## Learning Objectives

After completing this chapter, you will be able to:

- ✓ Define computer-aided design and drafting.
- ✓ Describe typical AutoCAD applications.
- ✓ Explain the value of planning your work and system management.
- ✓ Describe the purpose and importance of drawing standards.
- ✓ Demonstrate how to start and exit AutoCAD.
- ✓ Recognize the AutoCAD interface and access AutoCAD commands.
- ✓ Use help resources.

*Computer-aided design and drafting (CADD)* is the process of using a computer with CADD software to design and produce drawings and models according to specific industry and company standards. The terms *computer-aided design (CAD)* and *computer-aided drafting (CAD)* refer to specific aspects of the CADD process. This chapter introduces the AutoCAD CADD system. You will begin working with AutoCAD and learn to control the AutoCAD environment.

**computer-aided design and drafting (CADD):** The process of using a computer with CADD software to design and produce drawings and models.

## AutoCAD Applications

AutoCAD *commands* and *options* allow you to draw objects of any size and shape. Use AutoCAD to prepare two-dimensional (2D) drawings, three-dimensional (3D) models, and animations. AutoCAD is a universal CADD software program that applies to any drafting, design, or engineering discipline. For example, use AutoCAD to design and document mechanical parts and assemblies, architectural buildings, civil and structural engineering projects, and electronics.

**command:** An instruction issued to the computer to complete a specific task. For example, use the **LINE** command to draw line objects.

**option:** A choice associated with a command or an alternative function of a command.

### 2D Drawings

2D drawings display object length and width, width and height, or height and length in a flat (2D) form. 2D drawings are the established design and drafting format and are common in all engineering and architectural industries and related disciplines.

# Autocad And Its Applications Comprehensive

**Terence M. Shumaker,David A.  
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references and sheet sets The Advanced portion provides detailed coverage of 3D modeling including solid surface and mesh modeling Thorough coverage of visual styles shading materials lighting rendering and animation is also provided Heavily illustrated to make learning easy Step by step use of AutoCAD commands Exercises on the companion website correlated to each chapter reinforce AutoCAD concepts End of chapter review questions and drawing problems check comprehension End of chapter practice questions and problems for the AutoCAD Certified Professional Exam help students prepare for professional level certification

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## **Table of Contents Autocad And Its Applications Comprehensive**

1. Understanding the eBook Autocad And Its Applications Comprehensive
  - The Rise of Digital Reading Autocad And Its Applications Comprehensive
  - Advantages of eBooks Over Traditional Books
2. Identifying Autocad And Its Applications Comprehensive
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Autocad And Its Applications Comprehensive
  - User-Friendly Interface
4. Exploring eBook Recommendations from Autocad And Its Applications Comprehensive
  - Personalized Recommendations
  - Autocad And Its Applications Comprehensive User Reviews and Ratings
  - Autocad And Its Applications Comprehensive and Bestseller Lists

5. Accessing Autocad And Its Applications Comprehensive Free and Paid eBooks
  - Autocad And Its Applications Comprehensive Public Domain eBooks
  - Autocad And Its Applications Comprehensive eBook Subscription Services
  - Autocad And Its Applications Comprehensive Budget-Friendly Options
6. Navigating Autocad And Its Applications Comprehensive eBook Formats
  - ePub, PDF, MOBI, and More
  - Autocad And Its Applications Comprehensive Compatibility with Devices
  - Autocad And Its Applications Comprehensive Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Autocad And Its Applications Comprehensive
  - Highlighting and Note-Taking Autocad And Its Applications Comprehensive
  - Interactive Elements Autocad And Its Applications Comprehensive
8. Staying Engaged with Autocad And Its Applications Comprehensive
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Autocad And Its Applications Comprehensive
9. Balancing eBooks and Physical Books Autocad And Its Applications Comprehensive
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Autocad And Its Applications Comprehensive
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Autocad And Its Applications Comprehensive
  - Setting Reading Goals Autocad And Its Applications Comprehensive
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Autocad And Its Applications Comprehensive
  - Fact-Checking eBook Content of Autocad And Its Applications Comprehensive
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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individual cells measure the voltage across each one individually and record the value then connect the cells in series to  
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