

## Multiview Drawings

# 8



### OBJECTIVES

After completing this chapter, you will be able to:

1. Explain orthographic and multiview projection.
2. Identify frontal, horizontal, and profile planes.
3. Identify the six principal views and the three space dimensions.
4. Apply standard line practices to multiview drawings.
5. Create a multiview drawing using hand tools or CAD.
6. Identify normal, inclined, and oblique planes in multiview drawings.
7. Represent lines, curves, surfaces, holes, fillets, rounds, chamfers, runouts, and ellipses in multiview drawings.
8. Apply visualization by solids and surfaces to multiview drawings.
9. Explain the importance of multiview drawings.
10. Identify limiting elements, hidden features, and intersections of two planes in multiview drawings.

*As lines, so lovers oblique, may well  
Themselves in every angle meet;  
But ours, so truly parallel,  
Though infinite, can never meet.*

Andrew Marvell

### INTRODUCTION

Chapter 8 introduces the theory, techniques, and standards of multiview drawings, which are a standard method for representing engineering designs. The chapter describes how to create one-, two-, and three-view drawings with traditional tools and CAD. Also described are standard practices for representing edges, curves, holes, tangencies, and fillets and rounds. The foundation of multiview drawings is orthographic projection, based on parallel lines of sight and mutually perpendicular views. ■

# Chapter 8 Multiview Drawings

**Randy Shih**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Chapter 8 Multiview Drawings:**

**AutoCAD 2022 Tutorial Second Level 3D Modeling** Randy Shih, 2021-08 Designed for users who want to learn 3D modeling using AutoCAD 2022 Uses step by step tutorials that progress with each chapter Learn to create wireframe models 3D surface models 3D solid models multiview drawings and 3D renderings The primary goal of AutoCAD 2022 Tutorial Second Level 3D Modeling is to introduce the aspects of computer based three dimensional modeling This text is intended to be used as a training guide for both students and professionals The chapters in this book cover AutoCAD 2022 and proceed in a pedagogical fashion to guide you from constructing 3D wire frame models 3D surface models and 3D solid models to making multiview drawings and rendering images The text takes a hands on exercise intensive approach to all the important 3D modeling techniques and concepts This book contains a series of twelve tutorial style chapters designed to introduce CAD users to 3D modeling with AutoCAD 2022 Users upgrading from a previous release of the AutoCAD software will also find this text helpful The basic premise of this book is that the more 3D designs you create using AutoCAD 2022 the better you learn the software With this in mind each tutorial introduces a new set of commands and concepts building on previous chapters By going through this book you will establish a good basis for exploring and growing in the exciting field of Computer Aided Engineering

**AutoCAD 2018 Tutorial Second Level 3D Modeling** Randy Shih, 2017-09-07 The primary goal of AutoCAD 2018 Tutorial Second Level 3D Modeling is to introduce the aspects of computer based three dimensional modeling This text is intended to be used as a training guide for both students and professionals The chapters in this book cover AutoCAD 2018 and proceed in a pedagogical fashion to guide you from constructing 3D wire frame models 3D surface models and 3D solid models to making multiview drawings and rendering images The text takes a hands on exercise intensive approach to all the important 3D modeling techniques and concepts This book contains a series of twelve tutorial style chapters designed to introduce CAD users to 3D modeling with AutoCAD 2018 Users upgrading from a previous release of the AutoCAD software will also find this text helpful The basic premise of this book is that the more 3D designs you create using AutoCAD 2018 the better you learn the software With this in mind each tutorial introduces a new set of commands and concepts building on previous chapters By going through this book you will establish a good basis for exploring and growing in the exciting field of Computer Aided Engineering

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**Drafting in a Computer Age** Paul Ross Wallach,1989

**Graphics Drawing Workbook** Gary R. Bertoline,1999-03 The Graphics Drawing Workbook is meant to be used with either Technical Graphics Communications 2nd Edition or Fundamentals of Graphics Communications 2nd Edition However the workbook can be used with any good reference text including Graphics communication for engineers by this author There are workbook problems for every major topic normally taught in an engineering or technical drawing course Most of the problems can be drawn with instruments or sketched a special emphasis has been put on freehand sketching in this workbook in response to the increased use of CAD in many technical drawing courses It is expected that the instructor will supplement these problems with others from the text to fully reinforce technical drawing topics

**AutoCAD 2008 Tutorial**

**- Second Level** Randy H. Shih,2007 This textbook contains a series of eleven tutorial style lessons designed to introduce students to AutoCAD 2008 s 3D modeling functions Table of Contents 1 Getting Started 2 User Coordinate System UCS and the Z axis 3 3D Wireframe Modeling 4 UCS Viewports and Wireframe Modeling 5 3D Surface Modeling 6 Solid Modeling Constructive Solid Geometry 7 Regions Extrude and Solid Modeling 8 Multiview Drawings from 3D Models 9 Symmetrical Features in Designs 10 Advanced Modeling Tools and Techniques 11 Conceptual Design Tools and Techniques

Graphics for Engineers with CADKey James H. Earle,1991 Fundamentals of Engineering Graphics and Design Louis Gary

Lamit,Kathleen L. Kitto,1997 *Construction Drawings and Details for Interiors* W. Otie Kilmer,Rosemary

Kilmer,2003-03-10 Table of contents **AutoCAD 2006 Tutorial - Second Level** Randy H. Shih,2005-07

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spouses vivian ridge 1965 1977 jane lee zanardelli 1977 1992 lynda brown 1995

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