

Table of Contents

Introduction

About this book	Intro-1
About the Authors	Intro-1
Configuring your system	Intro-2
System Requirements	Intro-8
Customizing your Wheel Mouse	Intro-10

Lesson 1

Starting AutoCAD	1-2
AutoCAD Application Window	1-5
AutoCAD Workspaces	1-6
Application Menu Descriptions	1-7
Status Bar Buttons	1-12
Tooltip Help	1-24

Lesson 2

Create a Template	2-2
Using a Template	2-6
How to select a command	2-7
Drawing Lines	2-10
Methods of selecting objects	2-13
Erase	2-16
Undo and Redo	2-17
Starting a new drawing	2-18
Opening an existing drawing	2-19
Open Multiple Files	2-20
Saving a drawing file	2-23
Back up files and Recover	2-25
Exiting AutoCAD	2-26
Exercises	2-27

Lesson 3

Circle	3-2
Rectangle	3-4
Grid & Increment Snap	3-7
Layers	3-8
Lineweights	3-12
Exercises	3-17

Lesson 4

Object snap	4-2
Running Object snap	4-6
Zoom	4-8
Drawing setup	4-10
Exercises	4-15

Lesson 5

Polygon.....	5-2
Ellipse.....	5-3
Donut.....	5-6
Point.....	5-7
More object snaps.....	5-8
Exercises.....	5-9

Lesson 6

Break.....	6-2
Trim.....	6-4
Extend.....	6-5
Move.....	6-6
Drag.....	6-7
Nudge.....	6-8
Explode.....	6-9
Exercises.....	6-10

Lesson 7

Copy.....	7-2
Mirror.....	7-5
Mirrtext.....	7-6
Fillet.....	7-7
Chamfer.....	7-9
Exercises.....	7-1

Lesson 8

Single line text.....	8-2
Multiline text.....	8-4
Mtjgstring.....	8-5
Tabs.....	8-6
Indents.....	8-6
Spelling Checker.....	8-6
Columns.....	8-7
Paragraph.....	8-9
Line spacing.....	8-9
Editing text.....	8-10
Exercises.....	8-12

Lesson 9

Coordinate input.....	9-2
Absolute.....	9-3
Relative.....	9-4
Direct Distance Entry.....	9-6
Measure Tools.....	9-7
Creating a Border.....	9-8
Basic Plotting from Model Space.....	9-13
Exercises.....	9-17

Lesson 10

Moving the Origin.....	10-2
Displaying the UCS icon	10-4
Exercises	10-5

Lesson 11

Polar Coordinate Input.....	11-2
Using Polar Coordinates.....	11-3
Dynamic Input.....	11-4
Using Dynamic Input and Polar Coordinates	11-6
Polar Tracking	11-8
Polar Snap.....	11-10
Exercises	11-12

Lesson 12

Offset.....	12-2
Properties Palette	12-4
Quick Properties Panel	12-6
Offsetgaptypes	12-8
Exercises	12-9

Lesson 13

Array	13-2
Rectangular	13-2
Polar	13-7
Exercises	13-12

Lesson 14

Scale.....	14-2
Stretch	14-3
Rotate	14-4
Exercises	14-5

Lesson 15

Hatch	15-2
Gradient Fills	15-11
Editing hatch.....	15-12
Exercises	15-13

Lesson 16

Associative Dimensioning	16-2
Linear.....	16-4
Continue	16-5
Baseline.....	16-6
Dimension styles.....	16-7
Creating dimension styles.....	16-8
Ignoring Hatch Objects	16-15
Exercises	16-16

Lesson 17

Editing dimension text values	17-2
Editing dimension position	17-3
Modify an entire dimension style	17-5
Override a dimension style	17-6
Editing an individual existing dimension	17-7
Dimension Breaks.....	17-8
Jog a dimension.....	17-11
Adjust distance between dims	17-12
Exercises	17-13

Lesson 18

Dimensioning Diameters.....	18-2
Dimensioning Radii.....	18-4
Angular dimensioning	18-6
Centermark.....	18-7
Flip Arrow	18-8
Creating a dimension sub-style	18-9
Exercises	18-11

Lesson 19

Multileader	19-2
Aligned dimensioning.....	19-6
Special Text Characters	19-7
Prefix and Suffix.....	19-8
Exercises	19-9

Lesson 20

Quick dimensioning	20-2
Editing multiple dimensions	20-4
Exercises	20-6

Lesson 21

Match Properties.....	21-2
Layer Match.....	21-3
Creating a Revision Cloud	21-4
Convert a closed object into a Revision Cloud	21-5
Revision Cloud Style.....	21-6
Wipeout	21-7
Exercises	21-8

Lesson 22

Arc	22-2
Dimensioning Arc Lengths.....	22-3
Dimensioning a Large Curve	22-5
Exercises	22-6

Lesson 23

Polylines	23-2
Exercises	23-6

Lesson 24

Editing Polylines	24-2
Join	24-4
Exercises	24-5

Lesson 25

Creating new text styles.....	25-2
How to select a text style	25-4
Delete a text style	25-5
Changing effects of a text style.....	25-6
Divide.....	25-7
Measure.....	25-8
Exercises	25-9

Lesson 26

Model and Layout options.....	26-3
Model and Layout tabs	26-4
Viewports	26-6
Pan	26-10
How to Lock a viewport.....	26-12
How to create a page setup	26-13
Using the Layout.....	26-16
How to plot from the Layout.....	26-18
Annotative Property	26-22
Exercises	26-23

Lesson 27

Creating Scaled Drawings	27-2
Adjusting the viewport scale	27-3
Annotation objects	27-4
Paper space dimensioning	27-9
Exercises	27-10

Lesson 28

Assigning multiple annotative scales	28-2
How to remove Annotative scale	28-6
Annotative Hatch	28-8
Exercises	28-11

Lesson 29

Blocks	
Creating blocks	29-2
Inserting	29-6
Presetting the Insertion Point, Scale or Rotation	29-7
Re-defining a block	29-8
Purging unwanted blocks	29-9
Multileader and Blocks	29-10
Collect Multileader	29-14
Exercise	29-15

Lesson 30

Express Tools	
Text	30-2
Draw – Break-Line Symbol	30-6
Tools	30-7
Groups	30-8
Autodesk 360 Connectivity	30-10
Saving a file	30-11
Opening a file	30-14
Upload a file	30-15
Delete a file	30-17
Download a file	30-18
Autodesk 360 Design Feed	30-19
Tag a Colleague	30-20
Exercises	30-22

Appendix

- A Add a Printer / Plotter
- B Metric Conversion Factors
- C Dynamic Input
- D Command Line Enhancements

Index