

Contents

Introduction

xvii

Chapter 1	Arranging the AutoCAD User Interface.....	1
■	Tweaking Windows	2
	Maintain a Healthy Disk Drive	2
	Take Control of the Swap File	5
	Clean Out Temporary Crud.....	6
	Perform Basic Maintenance.....	7
	Know Your Display Control Panel	8
	Prepare for AutoCAD Launch.....	12
	Cycle through Tasks and Documents.....	14
■	Finding Help.....	15
	Search Tips.....	15
	Disable Antivirus Checking of Help File	17
	Use Cursor Help in Dialog Boxes	17
	Quick Help Offers Contextual Information	18
	Submit Comments about AutoCAD Help	18
	Online Help	19
■	Using Workspaces	20
■	Organizing the Interface.....	21
	Hide the Command Line	21
	Clean Up the UI	22
	Anchor Dockable Windows.....	23
	Setup the Dashboard/Tool Palette Connection	25
	Lock Down the UI.....	26
	Recover “Lost” Dockable Windows	26
■	Inputting with the Keyboard and Mouse	27
	Input Optimizations.....	27
	Board the Command Alias Express	29
	Function Key Master List.....	30
	Temporary Overrides Are Here to Stay	30
	Crosshairs in 3D	31
	As the Wheel Turns.....	32
	Customize the Right Mouse Button	33

Chapter 2	Drawing and Editing	35
■	Boosting Productivity	36
	Input Dynamically	36
	Tooltips Point the Way	38
	Calculate Anything Quickly	40
	Survey Says?	42
	Work with Angles	43
	Sketching Tricks	45
	Draw As-Built from the Outside In	47
	Snap To It	47
	Affect Visual Effects	49
	Select Like a Pro	50
■	Drawing and Editing Tips	59
	Arc More Effectively	59
	Polyline Tips	61
	Neat Cloud Revisions	62
	Control Overlap	64
	Make a Mark with UNDO	65
	Drag to Move and Copy	66
	Changing and Matching Properties	67
	Hip Grip Tips	69
	Master TRIM and EXTEND	69
	How Do You Say Fillet?	72
	Power OFFSET	73
	DIVIDE and MEASURE with Style	75
	Is It Overkill?	76
■	Living with Layers	77
	Make Use of Nonplotting Layers	77
	Use Layer Tools	78
	Search Layers	80
	Layer Filter Tips	82
	Take a Layer Walk	84
	Translate Layers	85
	Layers: The Good, the Bad, and the Ugly	86
Chapter 3	Annotation	89
■	Hatches	90
	On the Origins of Hatch Patterns	90
	Set the Default Pattern	91
	To Fill or Not to Fill?	93
	Disable Snap for Hatches	94

Tolerance Is a Good Thing	95
Separate Patterns for Flexibility	96
Pick Your Selection Style	97
Pick Points for Hatches and Boundaries	98
Find Areas with Hatches.	100
Customize Hatch Patterns	100
■ Text and Dimensions.	101
The Height of Style	102
Change CASE.	104
Spell Czech!	104
Find (and Replace) Words	105
Enlarge Text While Editing	106
Control MTEXT Width	107
Edit MTEXT the Way You Want.	109
Single-Line Text Tips	110
Super Subtext.	112
Clever Alignment via the Clipboard.	113
Renumber Text without Losing Your Mind.	114
Create Logos with Text as Linework.	115
Reassociate Fudged Dimensions	116
Easily Flip Dimension Arrows.	116
■ Attributes and Fields	117
Define, Insert, and Burst Attributes	117
See Invisible Attributes.	120
Do Something with Invisible Attribute Data.	121
Attributes: Think Local	122
Attributes Go Global.	123
Synchronize the Old with the New (or Not)	124
Playing in the Fields	125
Display Area in a Field	125
Use Fields Inside Attributes	127
Hyperlink Text with Fields.	129
■ Tables.	131
Import/Export Business Is Booming	131
Generate Tables from Attribute Data	132
Chapter 4 Layouts and Sheets	135
■ Laying It Out	136
Make Layouts the Easy Way.	136
Name Your Page Setups	137
Set Layout Options	140
Save and Reuse Layout Templates	140

■ Looking through the Viewport	141
Edit the Scale List	141
Cycle through Viewports	142
Create an Enlarged Viewport Bubble	142
Create Viewports for Viewing Solid Objects	144
■ Lost in Space.	146
Change Space without Breaking a Sweat	146
Work Safely in a Layout Viewport	146
Scale Linetypes in Paperspace	149
■ Nice Clean Sheets.	149
Sheet-Set-Speak	150
Import Sheets from Layouts or Create New Sheets?	151
Design a Title Block with Fields as a Sheet-Creation Template.	153
Chapter 5 Dynamic Blocks.	159
■ Block Basics.	160
Absolutely No Explosions Allowed	160
Be a Smart Bomber	161
Local Blocks Go Global and Back Again	162
Nest Blocks in the Block Editor.	163
Assign Properties Prior to Insertion.	165
Hey AutoCAD, Don't Scale My Blocks!	165
Avoid Nonuniform Scale at All Costs.	167
Try Auxiliary Scale	168
Count Those Blocks	169
■ Way Off Base	170
Set the Entire Drawing's Insertion Base.	170
Insert Blocks with Temporary Base Points	170
Hide the Insertion Point Grip	171
Cycle Multiple Insertion Points.	172
■ Play with Parameters	173
Seven Secrets of Symmetric Stretching.	173
Align Your Blocks	174
Hide Set Marks for Small Increments.	176
Control Object Visibility	176
Lose Your Grip.	178
■ Associate Actions	179
Action Selection Tips	179
Base-Point Independence.	180
One Parameter, Multiple Actions	181
Turn the Tables	182
Display Block Properties with Placeholder Fields	184

Chapter 6	3D Modeling	187
■	Using Coordinate Systems	188
	Access Another Dimension with Coordinate Filters	188
	3D Coordinate Systems	190
	Real-Time UCS	191
	Dynamic UCS	192
■	Creating 3D Objects	194
	Primitives Have Evolved	194
	Powerful Polysolids	195
	Sweep and Loft Your Way into 3D	197
■	Using 3D Editing Tools	200
	Transform Objects in 3D	200
	Leverage the History of Solids	201
	Subobject Modeling Techniques	203
	PRESSPULL Makes an Impression	205
■	3D Grab Bag	207
	OSNAPZ	207
	Thicken Surfaces into Solids	208
	Converting Surfaces and Solids	208
	Flatten It Out	210
	Control Display of Curved Objects	211
	Access 3D Content	213
Chapter 7	Visualization	215
■	Navigating in Virtual Space	216
	Zoom!	216
	Orbiting Viewpoints	220
	First-Person Navigation	224
■	Viewing in Style	227
	Develop Your Own Visual Style	227
	Place Cameras to Gain Perspective	229
	Manage Named Views	230
	Save Views in Paperspace	231
	Take Layer Snapshots with Views	231
	Convert Viewport Layers to Layer Snapshots	233
	Explore Design Alternatives with Snapshots	234
	See the Background behind Views	234
■	Presenting Realistic Imagery	236
	Materials	236
	Textures	243

Chapter 8	Sharing Data	247
■	Moving Data between Drawings	248
	Cut, Copy, and Paste	248
	DesignCenter	249
	i-drop	250
■	Making External References	251
	Who Has My File?	251
	Xtreme Xrefs	251
	Top Secret: Reference Manager	252
	Framing Images	254
	Underlay Those DWFs	254
■	Working with Other Applications	255
	¡Olé!	255
	Architectural Desktop to AutoCAD	257
	AutoCAD to Photoshop	258
	AutoCAD to Office	259
	Truly Free DWG Conversion	260
	View and Plot DWG without AutoCAD	261
	Round-Trip Design Review	262
Chapter 9	Plotting and Publishing	265
■	Plotting	266
	Plot in the Background	266
	Hide Unused Printers and Paper Sizes	267
	Liberate Color from Plot Style	269
	Output Images from AutoCAD	272
■	Publishing	272
	Go Digital with DWF	272
	Don't Ship It, eTransmit!	274
	Let AutoCAD Be Your Web Designer	276
	Publish and View 3D DWF Files	281
Chapter 10	Customization	283
■	Customizing Tool Palettes	284
	Organize Palettes with Palette Groups	284
	Customize Commands on Palettes	285
	Organize Palettes	286
	Drag Blocks to Palettes	287
	Drag Dimension Styles to Palettes	288
	Edit Tool Properties	289

- The Menu Legacy..... 290
 - Menu Migration 291
 - Transfer Legacy Menu Items 292
- Customizing the User Interface..... 293
 - Reassign F1 to Cancel 293
 - Assign Double-Click Actions..... 294
 - Create Custom Commands and Icons 295
- Customizing Workspaces 297
 - Customize a Workspace in the CUI Dialog Box 297
 - Restore a Workspace with a Command-Line Switch 299
 - Create Workspaces for the Enterprise..... 299
- CUI for the Enterprise..... 301
 - CAD Managers: Create an Enterprise Profile 302
 - Enterprise CUI Deployment 303

Index 305