

Table of Contents

Introduction.....	1
Topics Covered	1
Topics Not Covered	2
What's New in Pro/ENGINEER Wildfire 3.0.....	2
Tutorials.....	2
User Interface Changes	3
Introduction.....	3
The File Menu	4
The Quick Print Command.....	5
The Quick Print Command (continued).....	6
The Quick Print Command (continued).....	7
Notes About the Quick Print Command	7
Tutorial – Quick Print	8
The View Menu	11
Tutorial – Using the View Menu	12
Tutorial – Detach the Layer Tree.....	13
The Insert Menu	14
The Insert Menu (continued).....	15
The Analysis Menu.....	16
Analysis Dialog Boxes.....	17
Analysis Dialog Boxes (continued)	18
Cross-Section Analysis	19
Tutorial – Using the Analysis, Measure Commands.....	20
Tutorial – Using the Analysis, Model Commands.....	21
The Tools Menu	23
The Image Editor.....	24
Image Editor Controls	25
Tutorial – Using the Image Editor	26
The Customize Screen Command	27
Sketcher Enhancements.....	28
Introduction.....	28
Sketch Setup.....	29
Tutorial – Sketch Setup.....	30
Sketch References	31
Tutorial – Sketch References	31
Sketcher Palette	32
Sketcher Palette (continued).....	33
Tutorial – Sketcher Palette	34
Tutorial – Sketcher Palette	35
Tutorial – Sketcher Palette	36
Sketched Text	37
Tutorial – Sketched Text.....	38
Locked Dimensions.....	40

Tutorial – Locked Dimensions	40
Cut, Copy, Paste	41
Tutorial – Cut, Copy, Paste.....	41
General Modeling Enhancements.....	42
Introduction.....	42
Copy, Paste.....	43
Tutorial – Copy, Paste.....	43
Dependent Copies	44
Dependent Copies with Varied Items.....	45
Copied Feature Commands.....	46
Tutorial – Dependent Copies.....	47
Datums ‘On the Fly’	49
Tutorial – Datums ‘On the Fly’	50
Materials.....	52
Materials (continued).....	53
Materials (continued).....	54
Materials (continued).....	55
Materials (continued).....	56
Materials (continued).....	57
Tutorial – Materials.....	58
Mirror Part	60
Tutorial – Mirror Part.....	61
Mirror Assembly	62
Mirror Assembly (continued)	63
Shell Feature.....	64
Tutorial – Shell Feature.....	65
Swept Blend Feature.....	66
Swept Blend Feature (continued)	67
Tutorial – Swept Blend Feature.....	68
Pattern Enhancements.....	70
Tutorial – Pattern the Pattern	71
Tutorial – Mirror the Pattern	72
Tutorial – Reference Pattern	73
Tutorial – Curve Pattern.....	74
Tutorial – Fill Pattern.....	75
Tutorial – Fill Pattern.....	76
User-Defined Features.....	77
User-Defined Features (continued).....	78
Tutorial – User-Defined Features.....	79
Warp Feature	81
Tutorial – Warp Feature	82
Advanced Selection	84
Tutorial – Advanced Edge Selection	85
Tutorial – Advanced Surface Selection.....	88
Parameters.....	90
Parameters (continued).....	91
Tutorial – Parameters.....	92
Annotation Features.....	93
Introduction.....	93
Annotation Types	93

Set Datum Tag	94
Text Orientation and Location	95
Reference Description	96
Replace References	97
Surface Finish Symbols	98
Tutorial – Annotation Features	99
Shared Data Commands	103
Introduction.....	103
Publish Geometry.....	104
Tutorial – Publish Geometry	105
Copy Geometry	106
Copy Geometry (continued).....	107
Tutorial – Copy Geometry	107
Merge, Cutout, and Inheritance	108
Merge, Cutout, and Inheritance (continued)	109
Tutorial – Merge, Cutout, and Inheritance	109
Shrinkwrap	112
Tutorial – Shrinkwrap.....	113
Assembly Enhancements	115
Introduction.....	115
Assembly Retrieval	116
Tutorial – Assembly Retrieval	116
Component Placement Dashboard Tool.....	117
Component Placement Dashboard Tool (continued).....	118
Component Placement Dashboard Tool (continued).....	119
Tutorial – Component Placement Dashboard Tool.....	120
Component Interfaces.....	124
Component Interfaces (continued).....	125
Component Interfaces (continued).....	126
Component Interfaces (continued).....	127
Component Interfaces (continued).....	128
Tutorial – Component Interfaces	129
Assembly Model Tree	135
Assembly Model Tree (continued)	136
Tutorial - Assembly Model Tree	137
Component Replace	139
Component Replace (continued)	140
Tutorial – Component Replace	141
Copy, Paste.....	143
Tutorial – Copy, Paste	144
Undo, Redo	145
Tutorial – Undo, Redo	145
Envelope Parts.....	146
Envelope Parts (continued).....	147
Tutorial – Envelope Parts	148
Mechanism Drag	151
Mechanism Drag (continued).....	152
Tutorial – Mechanism Drag	153
Collision Detection	155
Tutorial – Collision Detection.....	156

Detail Drawing Enhancements	158
Introduction.....	158
Active Layer	160
Tutorial – Active Layer	161
Annotation Display	162
Tutorial – Annotation Display	162
Clipped Dimensions	163
Tutorial – Clipped Dimensions	163
Chamfer Dimensions.....	164
Tutorial – Chamfer Dimensions	164
Flip Arrows	165
Tutorial – Flip Arrows	165
Dimension Text Orientation.....	166
Tutorial – Dimension Text Orientation	167
Ordinate Dimensions.....	168
Tutorial – Ordinate Dimensions	168
Geometric Tolerances	169
Tables.....	170
Tutorial – Tables	170
Move Special.....	171
Tutorial – Move Special	171
Symbol Placement	172
Tutorial – Symbol Placement	172
Shaded Views	173
Tutorial – Shaded Views	173
Section Views.....	174
Tutorial – Section Views	175
View States	176
Tutorial – View States	177
Part Simplified Reps.....	178
Tutorial – Part Simplified Reps	179
Draft Entities.....	180
Drawing Templates	181
Drawing Setup File.....	182
Sheetmetal Enhancements	183
Introduction.....	183
Unattached Extruded Walls.....	184
Tutorial – Unattached Extruded Walls	185
Unattached Flat Walls	186
Tutorial – Unattached Flat Walls	187
Flange Walls	188
Flange Walls (continued)	189
Flange Walls (continued)	190
Tutorial – Flange Walls	191
Sheetmetal Cuts.....	193
Tutorial – Sheetmetal Cuts	194
Form Features.....	196
Tutorial – Form Features	197
Sheetmetal Reports	199

Mechanism Enhancements 200
 Introduction..... 200
 Joint Axis Limits 201
Tutorial – Joint Axis Limits 202
 Slot Connections 206
Tutorial – Slot Connections..... 207
 Flexible Components 209
Tutorial – Flexible Components 209
 Mechanism Skeletons 210
 Motion Skeletons..... 211
 Design Skeletons 212
 Body Skeletons 213
 Body Skeletons (continued) 214
Tutorial – Mechanism Skeletons..... 215

ISDX Enhancements..... 222
 Introduction..... 222
 The Styling Menu and Toolbar 223
 Circle and Arc..... 224
 Move and Copy 225
 COS by Intersect..... 226
 Offset Curves 227
 Curve from Datum..... 228
 Draft Tangent Connections 229
 Automatic Curve Connections..... 230

Photorender Enhancements 231
 Introduction..... 231
 The Render Control Panel 232
 Lights..... 233
Tutorial – Lights..... 234
 Render Scenes 235
Tutorial – Render Scenes 236

Configuration File Changes..... 238
 Obsolete Configuration Options 238
 New Configuration Options 239

About the Author 242

Index 243

