

TABLE OF CONTENTS

INTRODUCTION	1
Welcome	1
<i>Who Should Read This Book</i>	1
<i>What is Covered in This Book</i>	1
<i>Conventions Used in This Book</i>	2
<i>How to Contribute to This Book</i>	2
PART I: TIPS	3
Chapter 1 User Interface	5
<i>Overview</i>	5
<i>Startup Screen</i>	5
<i>Selecting Objects</i>	6
<i>Modifying Objects</i>	9
<i>The Gripper</i>	13
<i>WorkPlanes</i>	16
<i>Snaps</i>	17
<i>Tool Palettes</i>	18
<i>Preferences</i>	21
<i>Layers</i>	25
<i>Performance</i>	25
<i>Concept Explorer</i>	28
Chapter 2 Drafting	31
<i>Overview</i>	31
<i>Text and Dimensions</i>	31
<i>Curves</i>	37
<i>Symbols</i>	57
<i>BOMs</i>	58
<i>Draw Views</i>	60
Chapter 3 Surface Modeling	65
<i>Overview</i>	65
<i>Skinning and Lofting</i>	65
<i>Covering</i>	72
<i>Net Surface</i>	78
<i>Swept Surface</i>	79
<i>Surface Utilities</i>	80
Chapter 4 Solid Modeling	89
<i>Overview</i>	89
<i>Primitives</i>	89
<i>Solid From Profiles</i>	91
<i>Feature Based Solids</i>	94

Direct Face Editing	110
Solid Modeling Utilities	113
Chapter 5 Rendering and Display.....	119
Overview	119
Object Display Resolution	119
Viewing Data	122
Chapter 6 Photo Realistic Rendering.....	127
Overview	127
Applying Materials.....	127
Adjusting Angles of Applied Materials.....	129
Achieving Realistic Renderings.....	132
Chapter 7 Sharing Data	139
Overview	139
Surface & Solid Formats	139
Facet Based Formats.....	143
Additional Formats	151
More Data Sharing Tips	156

PART 2: CREATE THIS! TUTORIALS **163**

Chapter 8 Paper Clip.....	165
<i>Beginning Level</i>	
<i>Learn to use MultiLine tool, Select Chain tool, and Solid Pipe tool</i>	
Chapter 9 Breadboard	171
<i>Beginning Level</i>	
<i>Learn to mirror, fillet, and extrude a solid from profile</i>	
Chapter 10 Wine Bottle & Glass	181
<i>Beginning Level</i>	
<i>Learn to lathe a solid from profile and shell</i>	
Chapter 11 Hair Dryer	189
<i>Intermediate Level</i>	
<i>Learn to skin a solid from profile, blend hard edges, and shell solids</i>	
Chapter 12 Y Pipe	201
<i>Intermediate Level</i>	
<i>Learn to use Skin, Mirror, Blend, and Shell tools</i>	
Chapter 13 Coffee Mug	209
<i>Intermediate Level</i>	
<i>Learn to draw profiles, lathe, shell, join solids, and fillet edges</i>	
Chapter 14 Importing Splines	219
<i>Intermediate Level</i>	
<i>Learn to import point, throughpoint, vectorspline, polyline, lawspline, and lawsurface splines</i>	

APPENDIX OF QUESTIONS **225**

GLOSSARY	235
INDEX	241