

Table of Contents

Chapter 1 Getting Started	1
Create a simple sketch using the Sketch commands	10
Dimension a sketch using the Smart Dimension command	18
Extrude a sketch using the Features commands	44
Create a fillet using the Fillet command	46
Create a hole using the Extruded Cut command	59
Create a counter bore using the Hole Wizard command	65
Chapter 2 Learning More Basics	77
Revolve a sketch using the Revolve Boss/Base command	94
Create a hole using the Extruded Cut command	113
Create a series of holes using the Circular Pattern command	118
Chapter 3 Learning To Detail Part Drawings	127
Create an Orthographic View using the Drawing commands	167
Chapter 4 Advanced Detail Drawing Procedures	179
Create an Auxiliary View using the Drawing commands	182
Create a Section View using the Drawing commands	186
Dimension views using the Drawing commands	188
Create Text using the Drawing Annotation commands	192
Chapter 5 Learning To Edit Existing Solid Models	201
Edit the part using the Edit Sketch command	229
Edit the part using the Edit Feature command	237
Chapter 6 Advanced Design Procedures	259
Learn to use the Front, Top, and Right Planes	267
Learn to use the Wireframe viewing command	269
Learn to Convert Entities on to a new sketch	271
Learn to use the Shell command	284

Table of Contents

Chapter 1 Getting Started	1
Create a simple sketch using the Sketch commands	10
Dimension a sketch using the Smart Dimension command	18
Extrude a sketch using the Features commands	44
Create a fillet using the Fillet command	46
Create a hole using the Extruded Cut command	59
Create a counter bore using the Hole Wizard command	65
Chapter 2 Learning More Basics	77
Revolve a sketch using the Revolve Boss/Base command	94
Create a hole using the Extruded Cut command	113
Create a series of holes using the Circular Pattern command	118
Chapter 3 Learning To Detail Part Drawings	127
Create an Orthographic View using the Drawing commands	167
Chapter 4 Advanced Detail Drawing Procedures	179
Create an Auxiliary View using the Drawing commands	182
Create a Section View using the Drawing commands	186
Dimension views using the Drawing commands	188
Create Text using the Drawing Annotation commands	192
Chapter 5 Learning To Edit Existing Solid Models	201
Edit the part using the Edit Sketch command	229
Edit the part using the Edit Feature command	237
Chapter 6 Advanced Design Procedures	259
Learn to use the Front, Top, and Right Planes	267
Learn to use the Wireframe viewing command	269
Learn to Convert Entities on to a new sketch	271
Learn to use the Shell command	284

Chapter 7 Introduction To Assembly View Procedures	327
Learn to insert existing solid models using the Assembly commands	328
Learn to constrain all parts using the Mate command.	340
Learn to edit/modify parts while in the Assembly command	367
Learn to simulate motion using the Motion Study command.	375
Chapter 8 Introduction to Advanced Commands.	381
Learn to use the Swept Boss/Base command.	387
Learn to use the use the Plane command.	399
Learn to use the Lofted Boss/Base command.	408
Chapter 9 Introduction to SimulationXpress	413
Learn to run an analysis on a part.	425
Learn to interpret and analysis on a part.	427
Chapter 10 Introduction to Mechanical Mates.	431
Learn to use the Cam mechanical mate.	443
Chapter 11 Advanced Work Plane Procedures	451
Learn to create points on a solid model	456
Learn to create an offset work plane	463
Learn to create an offset Extruded cut	466
Chapter 12 Introduction to Creating a Helix	473
Learn how to create a Helix	474
Chapter 13 Introduction to Importing .DWG files	483
Learn to create a simple .DWG file	484
Learn to import a .DWG file into a 1 view drawing	485
Learn to import a .DWG file into the solid model area and create a solid model ...	492
Chapter 14 Introduction to the Design Library	501
Learn to Add in Toolbox	504
Learn to Create Part	509
Learn to Edit Properties	511
Index	515