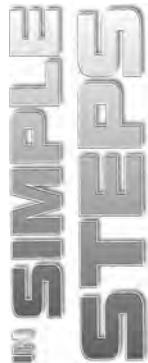


Table of Contents

Chapter 1 ■ Introducing 3ds Max 2011	1
Exploring the Features of 3ds Max 2011.....	2
Installing Autodesk 3ds Max 2011	3
Launching 3ds Max 2011	8
Understanding the 3ds Max 2011 User Interface	9
Defining the Caption Bar	10
Defining the Menu Bar.....	15
Defining the Main Toolbar	26
Defining the Command Panel.....	26
Defining the Status Bar	30
Defining Animation and Time Controls.....	30
Defining Viewports	31
Defining Viewport Controls.....	32
Defining the ViewCube Tool.....	33
Defining the SteeringWheel Tool.....	33
Defining the Quad Menu.....	34
Defining Ribbon.....	34
Setting Preferences	35
Using the Help Feature of 3ds Max 2011.....	36
Exiting 3ds Max 2011	39
Summary	40
Chapter 2 ■ Working with Primitives, Modifiers, and Reactors in 3ds Max 2011	41
Understanding the Project Workflow.....	42
Understanding Geometry Primitives	43
Standard Primitives.....	43
Extended Primitives	44
Architectural Objects.....	45
Compound Objects.....	48
Dynamics Object	49
Working with Objects	50
Creating and Saving an Object.....	50
Selecting an Object.....	52
Moving an Object	54
Rotating an Object	56
Scaling an Object.....	58
Cloning an Object	59
Grouping and Ungrouping Objects	62
Linking or Unlinking an Object	65

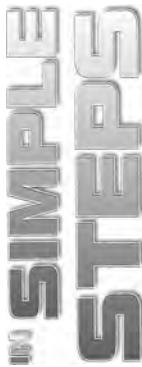
3ds Max 2011 in Simple Steps



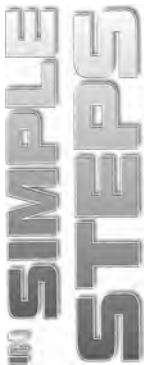
Hiding or Freezing an Object.....	68
Setting Object Properties	71
Working with Grids	75
Working with Pivot Point	78
Working with Layers	80
Working with Splines	81
Drawing Splines	82
Editing Splines	84
Rendering Splines.....	88
Creating Objects using Splines	91
Working with Modifiers.....	93
Understanding Modifier Types	93
Understanding the Modifier Stack	93
Applying Modifier	94
Using Hair and Fur (WSM) modifier	96
Working with Reactors.....	102
Creating and Simulating a Cloth Object.....	102
Creating a Wind Object.....	108
Summary	116

Chapter 3 ■ Modeling in 3ds Max 2011 117

Exploring Modeling Concepts.....	118
Polygons	118
Primitives.....	118
Mesh Objects and Sub-Objects.....	118
Working with Editable Poly Objects.....	119
Converting Primitives into an Editable Poly.....	119
Applying the Edit Poly Modifier.....	120
Modifying Editable Poly Objects.....	122
Selecting the Sub-Objects of an Editable Poly Object.....	122
Using the Soft Selection Feature	124
Extruding a Polygon	125
Beveling a Polygon.....	127
Using the Graphite Modeling Tools Ribbon	129
Exploring NURBS Modeling.....	133
NURBS Objects and Sub-Objects	133
Creating a NURBS Curve Sub-Object	133
Creating a NURBS Surface Sub-Object	136
Converting an Object to a NURBS Object.....	138
Editing a NURBS Object	139
Exploring Subdivision Modeling	141
Applying the MeshSmooth Modifier	141



Applying the TurboSmooth Modifier	143
Summary	146
Chapter 4 ■ Basics of Lights, Materials, and Cameras	147
Exploring Lights	148
Categories of Lights.....	148
Properties of Light.....	149
Working with Lights.....	150
Creating Standard Lights.....	151
Creating Photometric Lights	155
Creating Sunlight and Daylight Systems.....	157
Working with Materials	161
Exploring the Slate Material Editor.....	161
Using Standard Materials.....	163
Exploring Shader Types.....	165
Working with Cameras	166
Creating a Camera.....	166
Creating Cameras from a Specific View	168
Exploring Camera Attributes.....	169
Animating a Camera	169
Summary	172
Chapter 5 ■ Animation, Inverse Kinematics, and Character Studio	173
Understanding Animation Concepts.....	174
Using Time Configuration Dialog Box	174
Using the Auto Key Mode.....	177
Using the Set Key Mode	179
Creating and Viewing Previews.....	182
Exploring Kinematics	185
Using the Inverse Kinematics Methods.....	185
Understanding Character Studio	188
Working with Biped.....	189
Creating a Biped	189
Manipulating a Biped.....	191
Animating a Biped.....	195
Understanding Physique.....	202
Exploring Crowd Systems.....	203
Summary	208
Chapter 6 ■ Particle Systems and Space Warps	209
Working with Particle Systems	210
Understanding the Types of Particle Systems	210
Creating a Particle System for Rainfall Effect	218



3ds Max 2011 in Simple Steps

Working with Space Warps	222
Creating an Animation Using a Space Warp	222
Exploring the Space Warp Categories.....	228
Summary	240
Chapter 7 ■ Exploring Rendering	241
Introducing the Scanline Renderer	242
Defining Options	243
Defining Antialiasing.....	244
Defining Global SuperSampling.....	245
Defining Motion Blur	245
Defining Auto Reflect/Refract Maps	246
Defining Color Range Limiting	246
Defining Memory Management	246
Introducing Ray Tracing	247
Introducing Advanced Lighting.....	247
Introducing the Mental Ray renderer	249
Defining Global Illumination.....	252
Defining Caustics.....	253
Introducing the VUE File Renderer	253
Using Texture Baking	254
Exploring the Rendered Frame Window	259
Summary	260
Appendix	261
Keyboard Shortcuts.....	262
Glossary.....	265