

Table of Contents

How to Use this Workbook 1

VectorWorks Concepts. 3

2D, 3D AND HYBRID OBJECTS 3

GROUND PLANE AND WORKING PLANE 4

SNAP CONSTRAINTS AND SMARTCURSOR CUES 4

CLASSES AND LAYERS 5

SAVED VIEWS AND VIEWPORTS 5

RESOURCES 6

SYMBOLS 6

WALLS, FLOORS, AND ROOFS 6

PARAMETRIC OBJECTS 6

WORKSPACES 7

VECTORSRIPT 7

WORKSHEETS AND DATABASES 7

Getting Started in VectorWorks 9

VECTORWORKS SETTINGS 9

TERMINOLOGY 10

VECTORWORKS DRAWING WINDOW - MACINTOSH 12

VECTORWORKS DRAWING WINDOW - WINDOWS 13

OBJECT STACKING 19

Basic Object Creation 21

METHODS OF DRAWING OBJECTS 21

2D DRAWING TOOLS 24

METHODS OF EDITING OBJECTS 26

Using Snap Constraints 35

SNAP TO GRID 35

SNAP TO OBJECT 36

CONSTRAIN ANGLE 36

SNAP TO INTERSECTION 37

SMART POINTS 37

SNAP TO DISTANCE 38

SMART EDGE 38

CONSTRAIN TANGENT 39

SNAP CONSTRAINT SHORTCUTS 39



TABLE OF CONTENTS



The Attributes Palette 41

- APPLYING ATTRIBUTES 41
- FILL SETTINGS 41
- PEN SETTINGS 43
- LINE WEIGHT AND STYLE 44
- MARKERS 44
- EYEDROPPER TOOL 45
- COLOR PALETTES 46

VectorWorks Resources 51

- USING THE RESOURCE BROWSER 51
- CREATING AND USING HATCHES 53
- GRADIENTS 58
- IMAGE FILLS 59

Text 61

- TEXT TOOL 61
- TEXT ALONG PATH 63
- CALLOUT TOOL 65

Dimensioning Tools and Preferences 67

- DIMENSION TOOLS 67
- DIMENSION PREFERENCES 69

3D Viewing Tools 71

- STANDARD VIEWS MENU 71
- PROJECTION MENU 72
- PERSPECTIVE MENU 73
- SET 3D VIEW 74
- ROTATE 3D VIEW 74
- VIEWING TOOLS ON THE 3D TOOL SET 75

3D Modeling Methods 77

- CREATING 3D SOLIDS FROM 2D SHAPES 77
- DRAWING DIRECTLY IN 3D 81
- CONVERTING OBJECTS TO 3D 82
- BOOLEAN OPERATIONS 83
- CHAMFERS, FILLETS, AND SHELLS 84
- NURBS CURVES 86
- NURBS SURFACES 88

HYBRID OBJECTS..... 94

PARAMETRIC OBJECTS 94

Working Planes101

 USING WORKING PLANES..... 101

 SET WORKING PLANE TOOL 102

 MOVING AND ROTATING THE WORKING PLANE 104

 THE WORKING PLANES PALETTE..... 104

Rendering Modes..... 105

 RENDERWORKS..... 107

Lighting..... 109

 LIGHT CREATION TOOL 110

 SET LAYER AMBIENT 112

 SET SUN POSITION 113

File Organization115

 CREATING AND EDITING CLASSES 115

 DRAWING WITH CLASSES..... 119

 CLASSES IN SYMBOLS AND GROUPS 120

 USING LAYERS 121

 VIEWPORTS..... 128

 USING SAVED VIEWS 133

Drawing Walls137

 CREATING A NEW WALL..... 137

 DRAWING WALLS 138

 ROUND WALL TOOL..... 141

 WALLS, SYMBOLS AND PARAMETRICS 141

 WALLS IN 3D DRAWINGS 141

 WALLS FROM OTHER GEOMETRY 141

Symbols 143

 CREATING 2D SYMBOLS 143

 INSERTING SYMBOLS 146

Printing 153

 PAGE SETUP 153

 DOCUMENT PREFERENCES 156

 PRINTING 157

TABLE OF CONTENTS

Setting up a Drawing System..... 161

- VECTORWORKS PREFERENCES 161**
- VECTORWORKS PREFERENCES EDIT TAB 161**
- VECTORWORKS PREFERENCES DISPLAY TAB 165**
- VECTORWORKS PREFERENCES SESSION TAB..... 168**
- VECTORWORKS PREFERENCES 3D TAB..... 170**
- VECTORWORKS PREFERENCES AUTOSAVE TAB 172**
- VECTORWORKS PREFERENCES USER FOLDERS TAB..... 172**
- DOCUMENT PREFERENCES 173**
- DOCUMENT PREFERENCES DISPLAY TAB 173**
- DOCUMENT PREFERENCES RESOLUTION TAB..... 174**
- DOCUMENT PREFERENCES DIMENSION TAB 175**
- OTHER APPLICATION SETTINGS 176**
- WORKSPACES 179**
- RESOURCE LIBRARIES 183**
- TEMPLATES 186**
- BACKING UP 187**

DXF/DWG File Import 189

- IMPORTING DWG/DXF FILES 189**
- MULTIPLE FILES 189**
- DXF DWG IMPORT OPTIONS 190**