

Visit the following websites to learn more about this book:



[amazon.com](https://www.amazon.com)

[Google books](https://books.google.com)

[BARNES & NOBLE](https://www.barnesandnoble.com)

TABLE OF CONTENTS

Preface	i
Acknowledgements	i
Table of Contents	ii
Lesson 1	
The Revit Interface	
Exercise 1-1	
Using the Steering Wheel & ViewCube	1-8
Exercise 1-2	
Changing the View Background	1-16
Exercise 1-3	
Closing and Opening the Project Browser and Properties Palette	1-18
Exercise 1-4	
Changing the Ribbon Display	1-19
Exercise 1-5	
Temporary, Permanent, and Listening Dimensions	1-21
Exercise 1-6	
Setting File Locations	1-51
Exercise 1-7	
Adding the Default Template to Recent Files	1-52
Quiz 1	Q1-1
Lesson 2	
Mass Elements	
Exercise 2-1	
Shapes	2-2
Exercise 2-2	
Create a Conceptual Model	2-9
Exercise 2-3	
Adding an In-Place Mass	2-12
Exercise 2-4	
Modifying Mass Elements	2-15
Exercise 2-5	
Create Wall By Face	2-22
Exercise 2-6	
Adding Doors and Windows	2-27
Exercise 2-7	
Creating a Conceptual Mass	2-33
Exercise 2-8	
Using a Conceptual Mass in a Project	2-41
Additional Projects	AP2-1
Quiz 2	Q2-1

Lesson 3**Floor Plans**

Exercise 3-1	
Placing a Grid	3-2
Exercise 3-2	
Placing Walls	3-5
Exercise 3-3	
Converting an AutoCAD Floor plan	3-14
Exercise 3-4	
Wall Properties	3-20
Exercise 3-5	
Add Level 1 Interior Walls	3-27
Exercise 3-6	
Add Level 2 Interior Walls	3-29
Exercise 3-7	
Add Doors	3-34
Exercise 3-8	
Exploring Door Families	3-37
Exercise 3-9	
Adding Stairs	3-43
Exercise 3-10	
Creating a Handrail on a Wall	3-49
Exercise 3-11	
Modifying the Floor Plan – Skills Review	3-54
Exercise 3-12	
Defining a 2-hr Wall	3-57
Exercise 3-13	
Adding an Elevator	3-58
Exercise 3-14	
Load Family	3-65
Exercise 3-15	
Mirror Components	3-70
Exercise 3-16	
Create a 3D View	3-73
Exercise 3-17	
Copying Lavatory Layouts	3-76
Exercise 3-18	
Add a Door to a Curtain Wall	3-79
Exercise 3-19	
Modifying a Curtain Wall	3-85
Exercise 3-20	
Curtain Wall with Spiders	3-89
Exercise 3-21	
Adding Windows	3-93
Exercise 3-22	
Floor Plan Layout	3-99

Additional Projects	AP3-1
----------------------------	-------

Quiz 3	Q3-1
---------------	------

Lesson 4
Materials

Exercise 4-1	
Modifying the Material Browser Interface	4-3
Exercise 4-2	
Copy a Material from a Library to a Project	4-10
Exercise 4-3	
Create a Custom Material Library	4-14
Exercise 4-4	
Create Paint Materials	4-15
Exercise 4-5	
Add Categories and Materials to a Custom Library	4-20
Exercise 4-6	
Defining Wallpaper Materials	4-22
Exercise 4-7	
Defining Vinyl Composition Tile (VCT)	4-26
Exercise 4-8	
Define a Glass Material	4-33
Exercise 4-9	
Defining Wood Materials	4-38
Exercise 4-10	
Defining Site Materials	4-40
Exercise 4-11	
Defining Masonry Materials	4-44
Exercise 4-12	
Assigning Materials to Stairs	4-47

Additional Projects AP4-1

Quiz 4 Q4-1

Lesson 5
Floors and Ceilings

Exercise 5-1	
Creating Floors	5-1
Exercise 5-2	
Copying Floors	5-5
Exercise 5-3	
Creating a Shaft Opening	5-7
Exercise 5-4	
Adding an Opening to a Floor	5-11
Exercise 5-5	
Creating Parts	5-14
Exercise 5-6	
Viewing Parts in a Floor Plan View	5-19
Exercise 5-7	
Adding a Railing	5-22

Exercise 5-8	
Creating Ceilings	5-25
Exercise 5-9	
Adding Light Fixtures	5-26
Exercise 5-10	
Applying Paints and Wallpaper to Walls	5-28
Additional Projects	AP5-1
Quiz 5	Q5-1
Lesson 6	
Schedules	
Exercise 6-1	
Adding Door Tags	6-2
Exercise 6-2	
Creating a Door Schedule	6-4
Exercise 6-3	
Modifying Family Parameters	6-9
Exercise 6-4	
Creating Shared Parameters	6-16
Exercise 6-5	
Adding Shared Parameters to a Schedule	6-20
Exercise 6-6	
Adding Shared Parameters to Families	6-26
Exercise 6-7	
Creating a Custom Window Schedule	6-31
Exercise 6-8	
Create a Finish Schedule	6-36
Exercise 6-9	
Adding Schedules and Tables to Sheets	6-41
Exercise 6-10	
Using Keynotes	6-43
Exercise 6-11	
Create a Building Elevation with Keynotes	6-47
Exercise 6-12	
Find and Replace Families	6-53
Exercise 6-13	
Modifying Family Types in a Schedule	6-54
Exercise 6-14	
Export a Schedule	6-56
Exercise 6-15	
Assigning Fonts to a Schedule	6-60
Exercise 6-16	
Using a View Template for a Schedule	6-62
Additional Projects	AP6-1
Quiz 6	Q6-1

Lesson 7

Roofs

Exercise 7-1	
Creating a Roof Using Footprint	7-1
Exercise 7-2	
Modifying a Roof	7-5
Exercise 7-3	
Modifying a Roof Form	7-12
Exercise 7-4	
Adding Roof Drains	7-14
Exercise 7-5	
Adding a Gable by Modifying a Roof Sketch	7-15

Additional Projects	AP7-1
----------------------------	-------

Quiz 7	Q7-1
---------------	------

Lesson 8

Elevations, Details & Plans

Exercise 8-1	
Creating Elevation Documents	8-1
Exercise 8-2	
Using Line Work	8-4
Exercise 8-3	
Creating a Section View	8-7
Exercise 8-4	
Modifying Keynote Styles	8-17
Exercise 8-5	
Adding Window Tags	8-23
Exercise 8-6	
Changing Window Tags from Type to Instance	8-24
Exercise 8-7	
Creating a Plan Region View	8-27
Exercise 8-8	
Creating a Detail View	8-32
Exercise 8-9	
Adding a Callout	8-40
Exercise 8-10	
Adding a Detail to a Sheet	8-41
Exercise 8-11	
Importing a Detail View	8-45
Exercise 8-12	
Reassigning a Callout to a new Drafting View	8-49
Exercise 8-13	
Using a Matchline	8-52
Exercise 8-14	
Modifying a Crop Region	8-58

Exercise 8-15	
Updating a Schedule using Shared Parameters	8-60
Exercise 8-16	
Create a Sheet List	8-61
Exercise 8-17	
Create a PDF Document Set	8-64
Additional Projects	AP8-1
Quiz 8	Q8-1
Lesson 9	
Rendering	
Exercise 9-1	
Create a Toposurface	9-1
Exercise 9-2	
Create a Split Region	9-3
Exercise 9-3	
Create a Building Pad	9-6
Exercise 9-4	
Add Site Components	9-9
Exercise 9-5	
Defining Camera Views	9-12
Exercise 9-6	
Ray Trace	9-15
Exercise 9-7	
Rendering Settings	9-17
Exercise 9-8	
Space Planning	9-20
Exercise 9-9	
Building Sections	9-23
Exercise 9-10	
Decals	9-25
Exercise 9-11	
Creating a 3D Camera View (Reprised)	9-28
Exercise 9-12	
Rendering Using Autodesk 360	9-33
Exercise 9-13	
Placing a Rendering on a Sheet	9-36
Exercise 9-14	
Placing a Path for a Walkthrough	9-40
Exercise 9-15	
Playing the Walkthrough	9-42
Exercise 9-16	
Editing the Walkthrough Path	9-43
Exercise 9-17	
Creating an Animation	9-45
Additional Projects	AP9-1
Quiz 9	Q9-1

Lesson 10

Customizing Revit

Exercise 10-1	
Creating an Annotation Symbol	10-1
Exercise 10-2	
Creating a Custom Title Block	10-6
Exercise 10-3	
Using a Custom Title Block	10-16
Exercise 10-4	
Creating a Line Style	10-18
Exercise 10-5	
Defining Keyboard Shortcuts	10-20
Exercise 10-6	
Creating a Furniture Family	10-23
Exercise 10-7	
Modifying a Family	10-45
Exercise 10-8	
Adding a Shared Parameter to a View Label	10-46
Exercise 10-9	
Managing Family Subcategories	10-57

Quiz 10	Q10-1
----------------	-------

Revit Hot Keys

About the Author