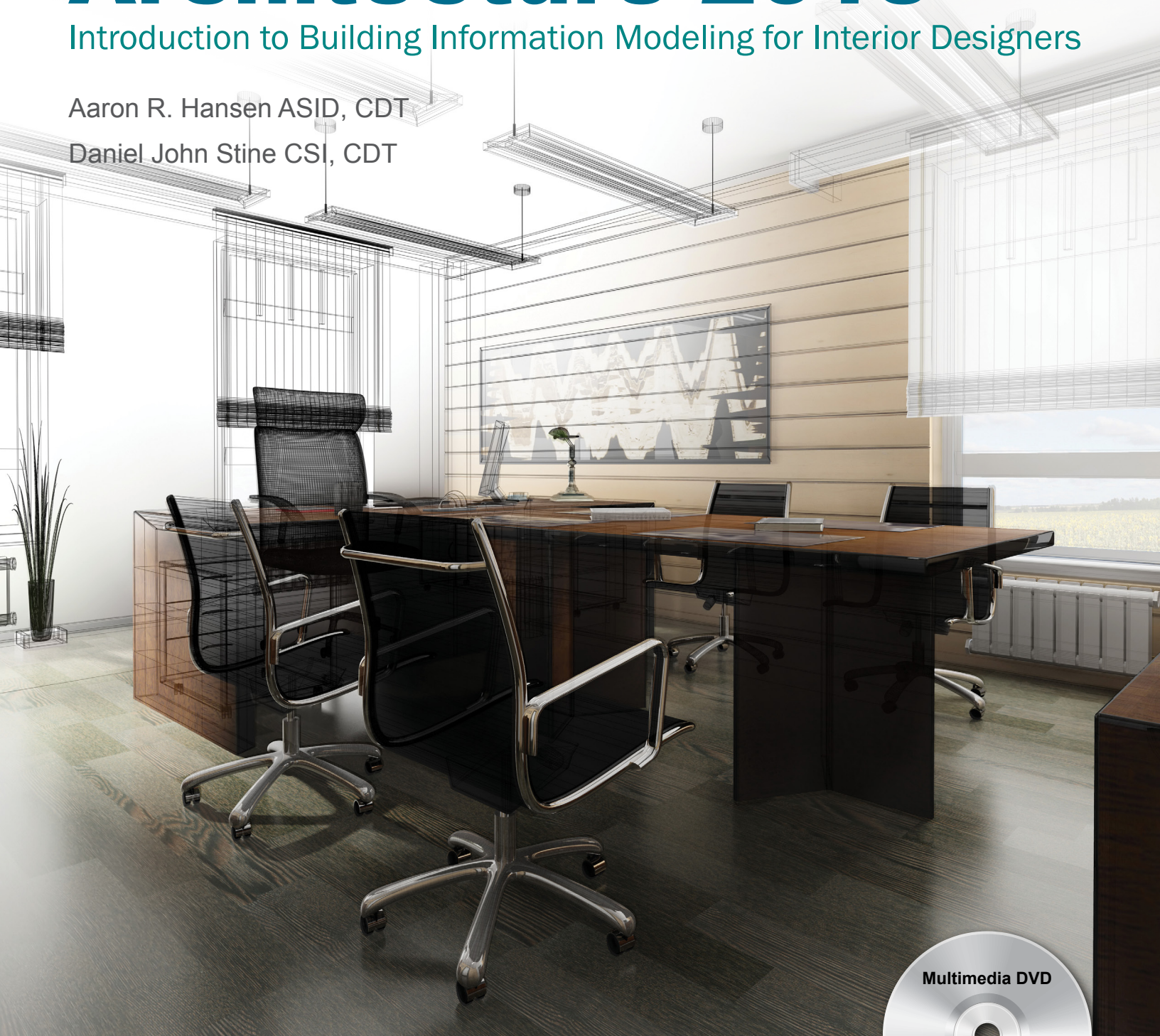


Interior Design Using Autodesk® Revit® Architecture 2013

Introduction to Building Information Modeling for Interior Designers

Aaron R. Hansen ASID, CDT

Daniel John Stine CSI, CDT



Visit the following websites to learn more about this book:



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

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

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

Table of Contents

1.	Getting Started with Autodesk Revit Architecture 2013	
1-1	What is Revit Architecture 2013?	1-1
1-2	Overview of the Revit User Interface	1-12
1-3	Open, Save and Close an Existing Project	1-25
1-4	Creating a New Project	1-30
1-5	Using Revit's Help System	1-32
	<i>Self-Exam & Review Questions</i>	1-35
2.	Model Navigation	
2-1	Using Zoom and Pan to View Your Drawings	2-1
2-2	Creating 2D Sections	2-5
2-3	Navigating the 3D Model	2-14
	<i>Self-Exam & Review Questions</i>	2-24
3.	Architectural Quick Start	
3-1	Walls, Grids and Dimensions	3-1
3-2	Doors	3-18
3-3	Windows	3-25
3-4	Roof	3-28
3-5	Annotation, Room Tags & Schedules	3-33
3-6	Printing	3-38
	<i>Self-Exam & Review Questions</i>	3-41
4.	Revit Materials	
4-1	Introduction to Using Materials in Revit	4-1
4-2	A Detailed Look at Revit Materials	4-8
4-3	Revit Materials Concepts Applied – Part 1	4-21
4-4	Revit Materials Concepts Applied – Part 2	4-34
4-5	Revit Materials and Custom Parameters	4-47
	<i>Self-Exam & Review Questions</i>	4-49
5.	Programming	
5-1	Introduction to Schedules	5-1
5-2	Law Office Space Program	5-17
5-3	Developing Bubble Diagrams	5-32
	<i>Self-Exam & Review Questions</i>	5-37
6.	Floor Plans	
6-1	Walls	6-1
6-2	Rooms	6-17
6-3	Floor Plan Development	6-25
6-4	Placing Room Elements in the Model	6-40
	<i>Self-Exam & Review Questions</i>	6-49
7.	Curtain Wall	
7-1	Curtain Wall	7-1
7-2	Developing the Interior Fenestrations	7-10
	<i>Self-Exam & Review Questions</i>	7-29
8.	Stairs and Railings	
8-1	Stairs	8-1
8-2	Modeling the Stairs	8-11
	<i>Self-Exam & Review Questions</i>	8-27
9.	Ceilings	
9-1	Introduction to Revit Ceilings	9-2
9-2	Modeling Ceilings	9-11
	<i>Self-Exam & Review Questions</i>	9-40

10.	Break Room and Work Room	
10-1	Tagging	10-1
10-2	Shared Parameters	10-9
10-3	Casework Content	10-16
10-4	Work Room	10-23
10-5	Lunch Room	10-37
	<i>Self-Exam & Review Questions</i>	10-51
11.	Toilet Room Design	
11-1	Toilet Room Layout Introduction	11-1
11-2	Toilet Room Layout	11-6
11-3	Toilet Room Wall Finishes	11-21
11-4	Level 2 Private Toilet Rooms	11-33
	<i>Self-Exam & Review Questions</i>	11-34
12.	Floors	
12-1	Introduction to Revit Floors	12-1
12-2	Modeling Floor Finishes-Carpet	12-14
12-3	Modeling Floor Finishes – Ceramic Tile, Sheet Goods, Etc.	12-32
	<i>Self-Exam & Review Questions</i>	12-38
13.	Custom Reception Desk and Sign	
13-1	Creating a Custom Reception Desk	13-2
13-2	Lobby Wall Sign	13-17
13-3	Controlling the Graphical Representation of Elements	13-23
	<i>Self-Exam & Review Questions</i>	13-31
14.	Furniture, Groups and Design Options	
14-1	Furniture Content	14-1
14-2	Furniture Placement	14-6
14-3	Design Options	14-29
	<i>Self-Exam & Review Questions</i>	14-38
15.	Detailing	
15-1	Introduction to Detailing	15-1
15-2	Exercises	15-2
15-3	Live Detail – Reception Desk	15-27
	<i>Self-Exam & Review Questions</i>	15-30
16.	Schedules	
16-1	Room Finish Schedules	16-1
16-2	Furniture Schedule	16-12
16-3	Floor Finish Schedules	16-18
	<i>Self-Exam & Review Questions</i>	16-24
17.	Lighting and Rendering	
17-1	Lighting Design	17-2
17-2	Creating a Rendering of the Lobby	17-12
17-3	Rendering an Isometric in Section	17-19
17-4	Creating another Interior Rendering	17-23
17-5	Adding People to the Rendering	17-28
17-6	Rendering Tips and Tricks	17-33
	<i>Self-Exam & Review Questions</i>	17-46
18.	Sheets and Revisions	
18-1	Creating Sheets	18-1
18-2	Creating a Sheet Index	18-10
18-3	Presentation Boards	18-14
18-4	Printing a Set of Drawings	18-20
18-5	Managing Construction Phase Revisions	18-27
	<i>Self-Exam & Review Questions</i>	18-38

DVD Contents

19.	Revit Families: Introduction to Revit Content Creation	<i>66 pages</i>	
19-1	Basic Family Concepts		19-1
19-2	The Box: Creating the Geometry		19-13
19-3	The Box: Adding Parameters		19-29
19-4	The Box: Formulas and Materials		19-45
19-5	The Box: Family Types and Categories		19-59
	<i>Self-Exam & Review Questions</i>		19-66
Appendix A:	Autodesk Revit Architecture Certification Exam	<i>9 pages</i>	
	<i>Introduction</i>		A-1
	<i>Self-Exam & Review Questions</i>		A-4
	<i>Self-Exam Answers</i>		A-9
Appendix B:	Revit Basics: Overview of Linework and Modify Tools	<i>38 pages</i>	
B-1	Lines and Shapes		B-1
B-2	Snaps		B-15
B-3	Modify Tools		B-20
B-4	Annotations		B-33
	<i>Self-Exam & Review Questions</i>		B-37
Appendix C:	Revit Basics: Drawing 2D Architectural Content	<i>30 pages</i>	
C-1	Sketching Rectilinear Objects		C-1
C-2	Sketching Objects With Curves		C-11
	<i>Self-Exam & Review Questions</i>		C-29
Appendix D:	Finding Missing Elements in Revit	<i>21 pages</i>	D-1
Appendix E:	Introduction To SketchUp	<i>78 pages</i>	
E-1	What is Google SketchUp used for?		E-1
E-2	Overview of the SketchUp User Interface		E-5
E-3	Open, Save and Close		E-9
E-4	Viewing SketchUp Models		E-15
E-5	Help System		E-21
E-6	The Basic Entities		E-25
E-7	Beginning with the Basics – 2D Sketching		E-38
E-8	3D Modeling		E-54
E-9	Adding Materials		E-73
Appendix F:	Introduction to Computers for CAD/BIM Users	<i>48 pages</i>	
F-1	Computer Basics: Terms and Functions		F-1
F-2	Overview of the Windows User Interface		F-18
F-3	File Management Introduction		F-38
	<i>Self-Exam & Review Questions</i>		F-48
Revit Introduction Videos			
1.	User Interface	11.	Rendering
2.	Walls	12.	Design Options
3.	Doors and Windows	13.	Sheets and Sheet Lists
4.	Stairs	14.	Worksharing Introduction
5.	Roofs	15.	Phases
6.	Floors	16.	Sweeps and Reveals
7.	Ceilings		
8.	Elevations		
9.	Sections		
10.	Schedules		