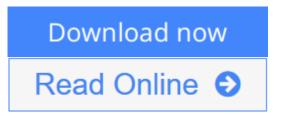


Residential Design, Drafting, and Detailing

By Alan Jefferis



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Master the skills most important for drawing, detailing, and designing residential structures with RESIDENTIAL DESIGN, DRAFTING, AND DETAILING, 2E. This step-by-step presentation centers exclusively on residential, familiarizing readers with standard construction practices involving wood, engineered materials, steel, and concrete as well as the latest "green" concepts and alternative materials. Updates throughout this edition reflect the latest standards, codes and guidelines, including the 2012 International Residential Code. Readers concentrate on CAD techniques using the guidelines from the United States National CAD - Standard--V5. Professional examples from architects, engineers, and designers as well as activities using actual architectural drawings and designs place readers into the role of professional CAD technicians.

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Editorial Review

Review

Section I: INTRODUCTION TO ARCHITECTURAL DRAFTING. 1. Professional Architectural Careers, Office Practice, and Opportunities. 2. Preparing for Success. 3. Computer-Aided Design in Architecture. 4. Guidelines and Codes and That Affect Building Design. 5. Interior Design Considerations. 6. Exterior Design Factors and Styles. 7. Environmental Design Considerations. Section II: SITE PLANS. 8. Land Descriptions and Drawings. 9. Site-Related Drawing Layout, Section III: FLOOR PLANS AND SUPPLEMENTAL DRAWINGS. 10. Floor Plans--Symbols, Annotation, and Dimensions. 11. Completing a Floor Plan with CAD. 12. Electrical Plans. 13. Plumbing Systems. 14. Comfort Control Systems. Section IV: ROOF PLANS. 15. Roof Plan Components. 16. Roof Plan Layout With CAD. Section V: ELEVATIONS. 17. Introduction to Elevations. 18. Elevation Layout and CAD Drawing Techniques. 19. Representing Interior Finishing Materials and Cabinets With CAD. Section VI: FRAMING METHODS AND PLANS. 20. Framing Methods. 21. Structural Components. 22. Design Criteria for Structural Loading. 23. Sizing Joists, Rafters, and Beams. 24. Drawing Framing Plans. Section VII: FOUNDATION PLANS. 25. Foundation Systems. 26. Floor Systems and Foundation Support. 27. Foundation Plan Layout. Section VIII: DETAILS AND SECTIONS. 28. Sectioning Basics. 29. Section Layout. 30. Stair Construction and Layout. 31. Fireplace Construction and Layout. Section IX: SUPPLEMENTAL DRAWINGS. 32. Written Specifications. 33. Presentation Drawings. 34. Renovations, Remodeling, and Additions. Abbreviations. Glossary. Index.

About the Author

A prolific author and respected instructor, Alan Jefferis has taught drafting technology at Clackamas Community College, an Authorized AutoCAD Training Center, for more than 31 years. Prior to that, Mr. Jefferis taught for four years at Mt. Hood Community College in Gresham, Oregon. He brings a wealth of professional experience to his writing, including eight years of drafting for structural engineers and 35 years of residential designing. Mr. Jefferis is currently the principal owner of Residential Designs, a design firm specializing in custom, energy-efficient homes. He is a former Autodesk Developer Network member and a former member of the A.I.B.D. Mr. Jefferis obtained his B.S. degree from San Diego State University in 1972 and has authored or co-authored numerous textbooks on architectural drafting and design and effectively working with AutoCAD.

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