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Designing with Models: A Studio Guide to Architectural Process Models

By Criss B. Mills



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Designing with Models: A Studio Guide to Architectural Process Models By Criss B. Mills

The newly updated guide to design process modeling techniques

Designing with Models, Third Edition is the revised, step-by-step guide to basic and advanced design process modeling. This comprehensive text explains the process from start to finish, and has been expanded to include up-to-date information on digital modeling programs and rapid prototyping processes. The impact of this new wave of 3D modeling technology is examined through interviews and numerous examples from renowned architects. Along with many new student projects, this new Third Edition features information on cutting-edge digital imaging equipment and design software, as well as many new process models from celebrated professional projects.

Architect Criss Mills acquaints architecture and design professionals with essential modeling terms, design processes, equipment, materials, and construction methods. Fully updated with nearly 200 new photos and twenty-six new projects from students and firms, Designing with Models, Third Edition walks readers through the basics of:

- Material and tool selection
- Construction techniques
- Determining scale
- Generating ideas
- Exploring design processes and alternatives
- Modifying design work directly on the model
- Developing design work through modeling scale

Offering increased emphasis on transitioning from hand craft to digital craft, this thorough Third Edition also provides easy-to-follow guidelines for modeling with advanced tools and materials, demonstrating how to:

- Master the modeling of curvilinear components with planar material and casting techniques
- Explore ideas with mixed media, such as wood, found objects, metal rods and screens, clay, and Plexiglas
- Work backwards from model information to produce 2D plan, section, and elevation drawings
- Record and communicate 3D design work
- Begin exploring the safe and effective use of power tools, such as belt sanders,

table saws, drills, band saws, and welding equipment

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Editorial Review

About the Author

CRISS B. MILLS holds a degree in architecture from the Georgia Institute of Technology, as well as a degree in visual arts from Georgia State University. A registered architect in Georgia and Florida, he is principal of his own architecture firm and teaches architecture at Clemson University.

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