



Post-Parametric Automation in Design and Construction

By Alfredo Andia, Thomas Spiegelhalter



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Automation, a mixture of algorithms, robots, software, and avatars, is transforming all types of jobs and industries. This book responds to one critical question for the design and construction industry: “how are architects, engineers, and contractors using information technology to further automate their practices?”

Addressing the use of new digital technologies, particularly parametric automation for design and construction in the building industry, this book looks at how technologically advanced architectural and engineering practices are semi-automating their design processes by using sophisticated algorithms to transform their workflows. The book also documents a set of firms that are further advancing automation by using pre-fabrication, modularization, and custom designs via robotics.

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Editorial Review

About the Author

Alfredo Andia is an associate professor in the Department of Architecture at Florida International University . He earned his Ph.D. from the College of Environmental Design at the University of California , Berkeley. Thomas Spiegelhalter is co-director of the Structures and Environmental Technologies Lab at the Department of Architecture at Florida International University and teaches Sustainability Graduate Studio and Environmental Systems in Architecture. He earned his master in design and architecture from the University of the Arts in Berlin

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