

Digital Workflows in Architecture

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The assimilation and synthesis of digital communications among architects, engineers, fabricators and builders is dramatically altering how we work and our relationship to the tools we use. New digital capacities are restructuring the organization and hierarchy of design from autonomous processes to collective workflows. The historical role of the designer as an author, a sole creator, is being replaced with semi-autonomous, algorithmically driven design workflows deeply embedded in a collective digital communication infrastructure. This is creating a number of pressures on the discipline of architecture to reorganize around the opportunities, and risks, of these changes.

Organized around the themes of Designing Design, Designing Assembly and Designing Industry, this book presents essays and case studies on digital technologies as key factors in architectural design, fabrication and workflow organization. Contributors include Ben van Berkel (UN Studio), Shane Burger (Grimshaw), Thom Mayne (Morphosis), Frank Barkow & Regine Leibinger (Barkow Leibinger), Fabian Scheurer (designtoproduction), James Kotronis (Gehry Technologies), Phil Bernstein (Autodesk Inc.), Neil Denari (NDMA) and Paolo Tombesi (University of Melbourne) among others .

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Editorial Review

Review
"Following each article, Marble subtly interjects a brief commentary that creates context, a broader dialogue, and identifies key synergies that are representative of digital practice and the AEC industry as a whole. The clear organizational structure of the text, the relief of beautifully visually communicated (but not exhaustive) case studies, and the timely insertion of editor's notes develop a rhythm that allow for the absorption of ideas without overwhelming readers with the complex nature of the topic." - *The Architects Newspaper*

From the Inside Flap
An overview of state-of-the-art digital technology applications in architecture

About the Author
Scott Marble is a Founding Partner of Marble Fairbanks Architects and Director of Integrated Design at the Columbia University Graduate School of Architecture, Planning and Preservation (GSAPP). He is currently Director of The Columbia Building Intelligence Project (CBIP).

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