



# Material Strategies in Digital Fabrication

*By Christopher Beorkrem*



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**Material Strategies in Digital Fabrication** By Christopher Beorkrem

Author Christopher Beorkrem shows how material performance drives the digital fabrication process and determines technique. He has recreated and dissected thirty-six of the most progressive works of architecture of the last few years, with perspectives from the designers so that you can learn from the successes and failures of each project. Including step-by-step diagrams and using consistent language and the simplest construction techniques, he identifies the important characteristics of each material, including connection types, relative costs, deformation, color, texture, finish, dimensional properties, durability, and weathering and waterproofing to link the design outcomes to form. The book is divided into five parts by material – wood, metal, concrete, hybrids, and recycled – to help you reference construction techniques for the fabrication machines you have on-hand.



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## **Editorial Review**

### **Review**

"Beorkrem's new book brings together what an inquisitive mind desires – an unravelling of the complexities and contradictions found in the built form. In each carefully selected case study, he systematically picks apart the design intentions, tools' capabilities and material limitations, and reveals the real invention and experimentation behind the photogenic work. This book introduces a different mode of formal analysis that acknowledges a new form of design intelligence. It succeeds in demystifying the problems of complex forms, and makes a renewed attempt in connecting architects deeply with the tools that are increasingly available in fabrication plants around the world."

H. Koon Wee, director of SKEW Collaborative and assistant professor, faculty of architecture, University of Hong Kong

### **About the Author**

**Christopher Beorkrem** is Assistant Professor of Architecture at the University of North Carolina, Charlotte.

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