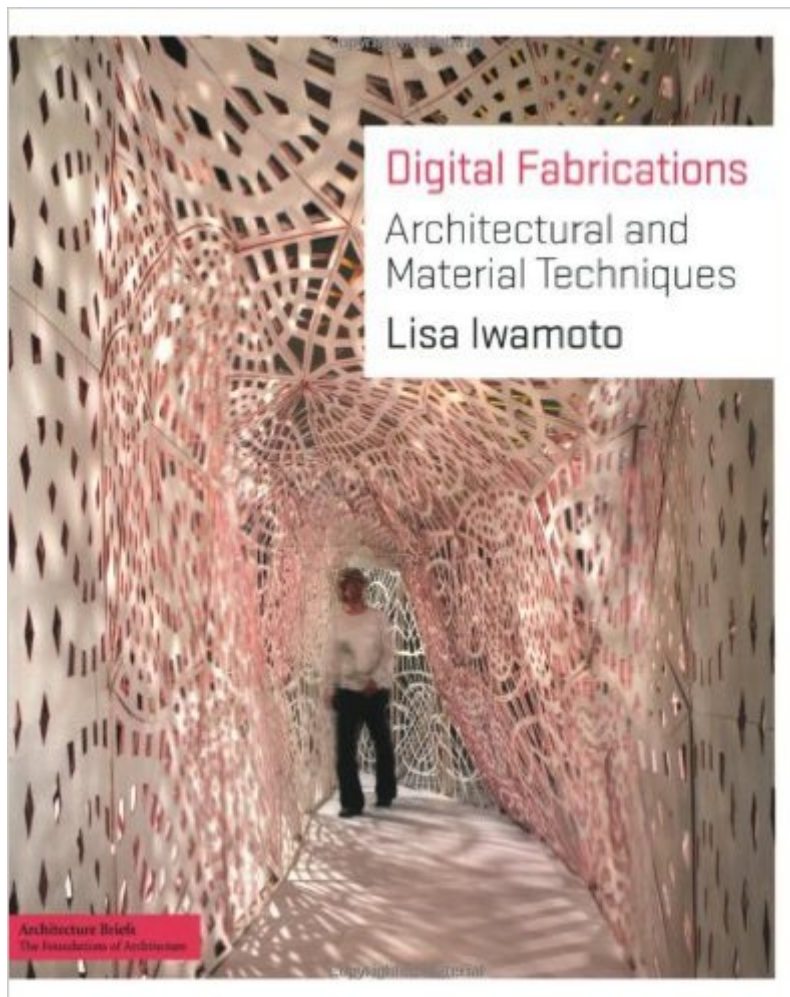


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# Digital Fabrications: Architectural And Material Techniques (Architecture Briefs)



## Synopsis

Architectural pioneers such as Frank Gehry and Greg Lynn introduced the world to the extreme forms made possible by digital fabrication. It is now possible to transfer designs made on a computer to computer-controlled machinery that creates actual building components. This "file to factory" process not only enables architects to realize projects featuring complex or double-curved geometries, but also liberates architects from a dependence on off-the-shelf building components, enabling projects of previously unimaginable complexity. *Digital Fabrications*, the second volume in our new Architecture Briefs series, celebrates the design ingenuity made possible by digital fabrication techniques. Author Lisa Iwamoto explores the methods architects use to calibrate digital designs with physical forms. The book is organized according to five types of digital fabrication techniques: tessellating, sectioning, folding, contouring, and forming. Projects are shown both in their finished forms and in working drawings, templates, and prototypes, allowing the reader to watch the process of each fantastic construction unfold. *Digital Fabrications* presents projects designed and built by emerging practices that pioneer techniques and experiment with fabrication processes on a small scale with a do-it-yourself attitude. Featured architects include Ammar Eloueini/DIGIT-AL Studio, Elena Manfredini, Brennan Buck, Michael Meredith/MOS, Office dA, Mafoomby, URBAN A+O, SYSTEM Architects, Andrew Kudless, IwamotoScott, Howeler Yoon, Hitoshi Abe, Chris Bosse, Tom Wiscombe/Emergent, Jeremy Ficca, SPAN, Urban A&O, Gnuform, Heather Roberge, Patterns, and Servo.

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## Customer Reviews

Contributing to the discussion on the role of digital and emerging technology in the discipline of architecture, *Digital Fabrications: Architectural and Material Techniques* documents a series of recent projects with an integral relationship between the act of designing and the act of making. Iwamoto organizes these works in a manner that draws commonalities between their material, tectonic, and spatial innovations, presenting these independent projects as a coherent collective that is innovating architectural thinking, teaching, making, and designing. This curation captures the vanguard spirit of the 1:1 experiments by focusing on smaller-scale projects (fabricated within the past five years, and by relatively young, small firms or even students,) as their prescribed restrictions (the availability of space, budget, materials, and/or tools) promotes innovating standard, accessible materials and machinery to achieve a new, unanticipated affect. Throughout *Digital Fabrications*, the emphasis is design + fabrication. Iwamoto excludes purely tectonic projects, as well as unbuilt designs, as the true ethos of these experiments in architectural design/fabrication is how the two processes integrate and inform each other. The projects included are in continuous contact with material and fabrication techniques during the various stages of development. The design (and designer) works in congruence with the computer, as well as the tools and methods of fabrication, to conceive and realize their work. The included projects exemplify how open, synchronous communication between design and manufacturing can, and has been, expanding spatial, material, and tectonic possibilities within the discipline.

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