

Fabrication Lab (Academic Year 2017/18)

Architecture

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54 items

Digital Fabrication (17 items)

HUMANIZING DIGITAL REALITY: design modelling symposium 2017 - 2017

Book | Essential

Fabricate - Achim Menges, Bob Sheil, Ruairi Glynn and Marilena Skavara, April 2017

Book | Essential | Also available for download at
<http://www.ucl.ac.uk/ucl-press/browse-books/fabricate>

Fabricate: negotiating design & making - Eidgenössische Technische Hochschule Zürich, FABRICATE (Conference), 2014

Book | Essential | Also available for download at
<http://www.ucl.ac.uk/ucl-press/browse-books/fabricate-2014>

Fabricate: making digital architecture - 2012

Book | Essential | Also available for download at
<http://www.ucl.ac.uk/ucl-press/browse-books/fabricate-2011>

Digital fabrications: architectural and material techniques - Lisa Iwamoto, c2009

Book

Material strategies in digital fabrication - Christopher Beorkrem, 2013

Book | Essential

Advancing wood architecture: a computational approach - 2017

Book | Essential

Architectural Design - High Definition: Zero Tolerance in Design and Production

Article | Essential

Animate form - Greg Lynn, 1997

Book | Essential

Parametricism 2.0: Rethinking Architecture's Agenda for the 21st Century AD (Architectural Design) - 25 Mar. 2016

Journal | Essential

The architecture of emergence: the evolution of form in nature and civilisation - Michael Weinstock, 2010

Book | Essential

NOX: machining architecture - Lars Spuybroek, Lars Spuybroek, 2004

[Book](#)

Animate form - Greg Lynn, 1997

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The autopoiesis of architecture: a new framework for architecture, Vol. 1 - Patrik Schumacher, c2011-

[Book](#) | [Essential](#)

The sympathy of things: Ruskin and the ecology of design - Lars Spuybroek, c2011

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Research & design: the architecture of variation - Lars Spuybroek, 2009

[Book](#) | [Essential](#)

A thousand years of nonlinear history - Manuel De Landa

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Structural design (5 items)

Innovative surface structures: technology and applications - Martin Bechthold, 2008

[Book](#)

Shell structures for architecture: form finding and optimization - 2014

[Book](#)

Digital processes: planning, design, production - Moritz Hauschild, Rudiger Karzel, Cornelia Hellstern, c2011

[Book](#) | [Essential](#)

Design engineering refocused - 2016

[Book](#) | [Essential](#)

Detail kultur: if buildings had DNA : case studies of mutations : the complex behavior of collective detail, 10 lenses, 12+1 projects - Christoph a Kumpusch, 2016

[Book](#) | [Essential](#)

Robotics (7 items)

Made by robots: challenging architecture at the large scale - 2014

[Book](#)

The robotic touch: how robots change architecture - Eidgenossische Technische Hochschule Zurich. Chair of Architecture and Digital Fabrication, 2014

[Book](#) | [Essential](#)

Macrofabrication with Digital Materials: Robotic Assembly - Neil Gershenfeld, Matthew Carney, Benjamin Jenett, Sam Calisch, Spencer Wilson, 2015-09

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Construction Robots

[Book](#) | Essential

Robotic Industrialization - Thomas Bock, Thomas Linner, 2015

[Book](#) | Essential

Robot-oriented design: design and management tools for the deployment of automation and robotics in construction - Thomas Bock, Thomas Linner, 2014

[Book](#) | Essential

Site Automation: Automated/Robotic On-Site Factories (Cambridge Handbooks on Construction Robotics) - 18 April 2016

[Book](#) | Essential

Wood (2 items)

Advancing wood architecture: a computational approach - 2017

[Book](#) | Essential

Timber gridshells: architecture, structure and craft - John Chilton, Gabriel Tang, c2017

[Book](#) | Essential

Casting (2 items)

Mouldmaking and casting - Nick Brooks, 2005

[Book](#) | Essential

Advanced mouldmaking and casting - Nick Brooks, 2011

[Book](#) | Essential

Model Making (3 items)

Model making - Megan Werner, c2011

[Book](#) | Essential

Model making: conceive, create and convince - Arjan Karssen, Bernard Otte, 2014

[Book](#) | Essential

Model making for architects - Matthew Driscoll, 2013

[Book](#) | Essential

Folding (6 items)

Folding in Architecture - Greg Lynn, c2004

[Book](#) | Essential

Folding techniques for designers: from sheet to form - Paul Jackson, 2011

[Book](#) | Essential

Supersurfaces: folding as a method of generating forms for architecture, products and fashion - Sophia Vyzoviti, 2006

[Book](#) | Essential

Folding architecture: spatial, structural and organizational diagrams - Sophia Vyzoviti, 2012

[Book](#) | Essential

Structural packaging: design your own boxes and 3-D forms - Paul Jackson, 2012

[Book](#)

Cut And Fold Techniques For Popup Designs - 2014

[Book](#)

Data-driven Design (2 items)

Data-driven design and construction: 25 strategies for capturing, analyzing and applying building data - Randy Deutsch, 2015

[Book](#) | Essential

Convergence: the redesign of design - Randy Deutsch, 2017

[Book](#) | Essential

Materiality (10 items)

Smart materials and new technologies: for the architecture and design professions - D. Michelle Addington, Daniel L. Schodek, Ebooks Corporation, 2005

[Book](#) | Essential

Smart materials in architecture, interior architecture and design - Axel Ritter, c2007

[Book](#) | Essential

Material matters: new materials in design - Philip Howes, Zoe Laughlin, Phoebe Stubbs, c2012

[Book](#) | Essential

Materialogy: the creatives guide to materials and technologies - Daniel Kula, Elodie Ternaux, 2014

[Book](#) | Essential

Transmaterial: a catalog of materials that redefine our physical environment - Blaine Erickson Brownell, 2006

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Transmaterial 2: a catalog of materials that redefine our physical environment - Blaine Erickson Brownell, c2008

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Transmaterial 3: a catalog of materials that redefine our physical environment - Blaine Erickson Brownell, c2010

Book | Essential

Transmaterial next: a catalog of materials that redefine our future - Blaine Erickson
Brownell, 2017

Book | Essential

Material strategies: innovative applications in architecture - Blaine Brownell, 2012

Book | Essential

Hypernatural: architecture's new relationship with nature - Blaine Erickson Brownell, Marc
Swackhamer, 2015

Book | Essential