

## References

updated winter 2016

Author	Title	UO Library Call Number	Date	Publisher	Keywords
Aksamija, Ajla	<i>Sustainable Facades: Design Methods for High-Performance Building Envelopes</i>	online ebook	2013	Wiley	building envelopes
Aranda, Benjamin; Lasch, Chris	<i>Tooling</i>	NA2728 .A58 2006	2006	Princeton Architectural	parametric design
Ball, Philip	<i>The Self-made Tapestry: Pattern Formation in Nature</i>	QH491 .B35 1999	1999	Oxford University Press	biomimicry, pattern, chemistry
Ball, Philip	<i>Nature's patterns: a tapestry in three parts. Shape</i>	online ebook (2nd edition of Self-made Tapestry)	2011	Oxford University Press	biomimicry, pattern, chemistry
Benyus, Janine	<i>Biomimicry: Inspired by Nature</i>	T173.8 .B45 2002	2002	Perennial	biomimicry
Borden, Gail Peter; Meredith, Michael	<i>Matter : material processes in architectural production</i>	TA403	2012	Routledge	digital fabrication, material-based design
Brownell, Blaine & Swackhamer, Marc	<i>Hypernatural : architecture's new relationship with nature</i>	NA2542.35 .B79 2015	2015	Princeton Architectural Press	digital architecture, biomimicry
Burry, Jane; Burry, Mark	<i>The new mathematics of architecture</i>	NA2750	2010	Thames & Hudson	parametric design, geometry
Burry, Mark	<i>Scripting cultures : architectural design and programming</i>	NA2728	2011	Wiley	parametric design
Dunn, Nick	<i>Digital fabrication in architecture</i>	NA2728	2012	Laurence King Publishing	digital fabrication
Forbes, Peter	<i>The Gecko's Foot</i>	T173.8 .F63 2006	2006	Norton	biomimicry
Fox, Michael	<i>Interactive Architecture</i>	online e-book		Princeton Architectural	kinetic responsive systems
Gramazio, Fabio; Kohler, Matthias	<i>Digital materiality in architecture</i>	NA1353.G635	2008	Lars Müller Publishers	digital fabrication, material-based design
Gruber, Petra	<i>Biomimetics in Architecture: architecture of life and buildings</i>	NA2543.B56 G78 2011	2011	Springer	biomimicry in architecture
Hensel, Michael; Achim Menges and Michael Weinstock	<i>Emergent Technologies and Design: Towards a biological paradigm for architecture</i>	NA2543.T43 H46 201		Routledge	biomimetic digital design, material form- finding
Iwamoto, Lisa	<i>Digital fabrications : architectural and material techniques</i>	NA2728	2009	Princeton Architectural	digital fabrication
Lim, Joseph	<i>Bio-structural analogues in architecture</i>	NA2543.B56 L55 2009	2009	BIS Publishers	biomimetic structures
Lim, Joseph	<i>Eccentric structures in architecture</i>	NA2750 .L56 2010	2010	BIS Publishers	structures

## References

updated winter 2016

Author	Title	UO Library Call Number	Date	Publisher	Keywords
Lovell, Jenny	<i>Building Envelopes: An Integrated Approach</i>	TH2235 .L68	2010	Princeton Architectural	building envelopes
March, Lionel; Steadman, Philip	<i>The Geometry of Environment</i>	NA2750 .M26	1974	MIT Press	geometry, architecture
Mazzoleni, Ilaria & Price, Shauna	<i>Architecture Follows Nature-Biomimetic Principles for Innovative Design</i>	NA2543.B56 M39	2013	CRC Press, T&F	biomimicry, architecture
Meadows, Donella & Wright, Diana	<i>Thinking in Systems</i>	online e-book	2012	Taylor and Francis	system thinking
Ng, Rashida; Patel, Sneha	<i>Performative materials in architecture and design</i>	NA2750	2013	Intellect	material-based design
Pearce, Peter	<i>Structure in Nature is a Strategy for Design</i>	NA2750 .P4	1978	MIT Press	
Schröpfer, Thomas; James Carpenter	<i>Material design : informing architecture by materiality</i>	TA403.6	2011	Birkhäuser	material-based design
Thompson, D'Arcy Wentworth	<i>On Growth and Form</i>	QP84.T4	1952	Cambridge Univ. Press	biological patterns, growth
Vincent, Julian	<i>Structural Biomaterials</i>	QH505.V48	1982	Princeton Univ. Press	biomimicry, structure, material science
Vogel, Steven	<i>Cats' Paws and Catapults: mechanical worlds of nature and people</i>	QH513 .V64	1998	Norton	biomimicry, biology, structure
Vyzoviti, Sophia	<i>Soft shells : porous and deployable architectural screens</i>	NA2790	2011	BIS Publishers	folding
Blossfeldt, Karl	<i>Archive of Nature Specimen photos</i>	<a href="http://karl-blossfeldt-archiv.de">http://karl-blossfeldt-archiv.de</a>			nature, natural structure, pattern
Conway, John	<i>Game of Life video</i>	<a href="https://www.youtube.com/watch?v=CgOcEZinQ2I">https://www.youtube.com/watch?v=CgOcEZinQ2I</a>			systems, programming
Crash Course	<i>Master HOX genes</i>	<a href="https://www.youtube.com/watch?v=9sjwLxQ_6LI">https://www.youtube.com/watch?v=9sjwLxQ_6LI</a>			Developmental biology
Eggermont, Marjan	<i>Zygote Quarterly</i>	<a href="https://issuu.com/eggermont">https://issuu.com/eggermont</a>			biomimicry
Frame, Michael, BenoitMandelbrot, & Nial Neger	<i>Intro to Fractals</i>	<a href="http://users.math.yale.edu/public_html/People/frame/Fractals/">http://users.math.yale.edu/public_html/People/frame/Fractals/</a>			systems, self-similarity, fractals
Frazier, John	<i>Evolutionary Architecture</i>	<a href="http://www.aaschool.ac.uk/publications/ea/intro.html">http://www.aaschool.ac.uk/publications/ea/intro.html</a>			
Islands & Rivers	<i>Murmuration video: Flocking behavior</i>	<a href="https://vimeo.com/31158841">https://vimeo.com/31158841</a>			flocking
Oregon State University	<i>Oregon Explorer</i>	<a href="http://oregonexplorer.info/">http://oregonexplorer.info/</a>			nature, oregon

## References

updated winter 2016

Author	Title	UO Library Call Number	Date	Publisher	Keywords
Panchuk, Neal	<i>Biomimicry and its Application to Digital Architecture</i>	<a href="http://uwspace.uwaterloo.ca/handle/10012/2876">http://uwspace.uwaterloo.ca/handle/10012/2876</a>			biomimicry, architecture, parametric design
Perez-Garcia, Agustin & Fernando Gomez-Martinez	<i>Natural structures: Strategies for geometric and morphological optimization</i>	<a href="http://www.researchgate.net/publication/50838824_Natural_structures_strategies_for_geometric_and_morphological_optimization">http://www.researchgate.net/publication/50838824_Natural_structures_strategies_for_geometric_and_morphological_optimization</a>			nature, natural structures
Prusinkiewicz, Przemyslaw	<i>The Algorithmic Beauty of Plants</i>	<a href="http://algorithmicbotany.org/">http://algorithmicbotany.org/</a>			nature, natural structures, digital modeling
RadioLab at WNYC	<i>Emergence podcast</i>	<a href="http://youtu.be/o_ZuWbX-CyE">http://youtu.be/o_ZuWbX-CyE</a>			systems
Rajabzadeh, Marziah et. al.	<i>Philip Ball's Self-Made Tapestry</i>	<a href="http://www.youtube.com/watch?v=fS7kF_7QKcQ">http://www.youtube.com/watch?v=fS7kF_7QKcQ</a>			patterns in nature
Reynolds, Craig	<i>Flocking: digital boids</i>	<a href="http://www.red3d.com/cwr/boids/">http://www.red3d.com/cwr/boids/</a>			systems, flocking
RPI	<i>Center for Architecture, Science and Ecology</i>	<a href="http://www.case.rpi.edu/page/research.php">http://www.case.rpi.edu/page/research.php</a>			nature, biomimetic technology
Rui, Felix	<i>Learning from a Barrel Cactus</i>	<a href="https://bouncingideas.wordpress.com/2011/12/14/learning-from-a-barrel-cactus/">https://bouncingideas.wordpress.com/2011/12/14/learning-from-a-barrel-cactus/</a>			biomimicry, architecture, process
Sapolsky, Robert	<i>Complexity and Emergence lecture video</i>	<a href="http://youtu.be/o_ZuWbX-CyE">http://youtu.be/o_ZuWbX-CyE</a>			systems, complexity, emergence
Wasley, James; Terry Meyer Boake, Mary Guzowski	<i>Carbon Neutral Design Project</i>	<a href="http://www.tboake.com/carbon-aia/strategies.html">http://www.tboake.com/carbon-aia/strategies.html</a>	2012	AIA   Society of Building Science Educators	sustainable design, ECS
Wolfram	<i>Wolfram's Demonstrations</i>	<a href="http://demonstrations.wolfram.com/">http://demonstrations.wolfram.com/</a>			Mathematics, geometry, patterns
YiğİT, Nergiz	<i>Industrial Product Design by Using Two-Dimensional Material in the Context of Origamic Structure and Integrity</i>	<a href="http://library.iyte.edu.tr/tezler/master/endustriurunlertasarimi/t000457.pdf">http://library.iyte.edu.tr/tezler/master/endustriurunlertasarimi/t000457.pdf</a>	2004	İzmir Institute of Technology	folding, product design