



# **MATERIAL STRATEGIES IN DIGITAL FABRICATION**

Christopher Beorkrem



**Material Strategies In Digital Fabrication Paperback**  
**2012 Author Christopher Beorkrem**

**Antonio Jose Rodriguez Ortiz**



## **Material Strategies In Digital Fabrication Paperback 2012 Author Christopher Beorkrem:**

**Material Strategies in Digital Fabrication** Christopher Beorkrem, 2013-05-02 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. *Fabvolution* Carlos Ipser, 2012

**The Art of Digital Fabrication** Erin E Riley, 2019-05-06 The Art of Digital Fabrication makes the case for designing and making art with digital fabrication technology and provides the resources for bringing that work to life. Contains over twenty five beautiful makerspace tested STEAM projects, a material and process inventory for digital fabrication and hardware and software guides.

**Digital Fabrication** Antonio Jose Rodriguez Ortiz, 2006

**Towards Swarm-based Design** Markus A. Kayser, 2018 Submitted to the Program in Media Arts and Sciences School of Architecture and Planning on December 8, 2017 in Partial Fulfillment of the Requirements for the Degree of Doctor of Philosophy in Media Arts and Sciences at the Massachusetts Institute of Technology.

Throughout history, Nature has always been part of the discourse in Design theory and practice. The Digital Age in Design brings about new computational tools redefining the role of Nature in Design. In this thesis, I aim to expand the role of Nature in Design and digital fabrication by investigating distributed fabrication strategies for the production of constructs that are at once large in scale and materially tunable towards swarm based design. Digital fabrication approaches can be classified with respect to two basic attributes: 1. the degree of material tailorability and 2. the level of collaboration between fabrication units. Conventional manufacturing is typically confined to only one of these attribute axes with certain approaches utilizing complex tunable materials but virtually no collaboration, and others assembling pre-fabricated building blocks with high levels of intercommunication between fabrication units. A similar pattern is mirrored in biological systems: silkworms, for example, deposit a multifunctional tunable material with minimal communication between organisms, while ants, bees, and termites operate as multi-agent communicative entities assembling larger constructs out of simple unifunctional generic materials. The purpose of this thesis is to depart from these uniaxial manufacturing approaches and develop a novel swarm inspired distributed digital fabrication method capable of producing tunable multifunctional materials that is also collaborative. This research merges fiber based digital fabrication and swarm based logic to produce a system capable of digitally fabricating complex objects and large scale architectural components through a novel multi-robotic fabrication paradigm. I hypothesize that this design approach, its theoretical foundations,

methodological set up and related tools and technologies will ultimately enable the design of large scale structures with high spatial resolution in manufacturing that like biological swarms can tune their material make up relative to their environment during the process of construction Building on the insights derived from case study projects fabricating with silkworms ants and bees I demonstrate the design and deployment of a multi robotic system erecting a 4 5 meter tall structure from fiber composites This thesis addresses the current limitations of digital fabrication namely a the material limitation through automated digital fabrication of structural multi functional materials b the gantry limitation through the construction of large components from a swarm of cooperative small scale robots and c the method limitation through digital construction methods that are not limited to layered manufacturing but also support free form printing i e 3D printing without support materials CNC woven constructions and digitally aggregated constructions

**An Introduction to Digital Fabrication** James Stasiak, Ross Mills, 2016-09-13

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