



# Digital Fabrication in Architecture, Engineering and Construction

By Luca Caneparo



Download



Read Online



Get Print Book

**Digital Fabrication in Architecture, Engineering and Construction** By Luca Caneparo

Digital technologies are changing the relationship between design and construction: with computer models, CAD/CAM, and prototyping, designers can gain direct control of building and construction processes. The ability to digitally model designs, and thus to use those models directly in the context of production, creates a synthesis between design and construction in keeping with the tradition of the close relationship between design and craftsmanship, between the quality of the design and the rules of the craft.

The evolution of the culture of design and construction is the underlying theme of this book. The aim is to discuss the direction that innovation is now taking, with a particular focus on today's cutting-edge architectures. The method addresses the ways in which different societies have dealt with the issues of their age regarding design and construction, the different contributions provided by various techniques, and with them the meanings expressed by the architecture. As building design using digital tools requires specific skills in the fabrication processes and in the languages used by information technology, the book also offers a practical guide to new methods and techniques of managing and controlling fabrication for AEC. A systematic analysis of new skills used in the design process presents an overview of opportunities for architects and engineers. By collecting information on significant projects and analyzing them, the book explores the technical and artistic potential of digital technology. The cases studied are the outcomes of groundbreaking projects which were able to give form and significance to technological research. They show that digital tools are not the exclusive prerogative of large firms but can also be adopted by teams working across small and medium-sized firms – firms which have been able to use informed research to link innovative design with the possibilities offered by digital fabrication in architecture.



[Download Digital Fabrication in Architecture, Engineering a ...pdf](#)



[Read Online Digital Fabrication in Architecture, Engineering ...pdf](#)

# Digital Fabrication in Architecture, Engineering and Construction

*By Luca Caneparo*

## Digital Fabrication in Architecture, Engineering and Construction By Luca Caneparo

Digital technologies are changing the relationship between design and construction: with computer models, CAD/CAM, and prototyping, designers can gain direct control of building and construction processes. The ability to digitally model designs, and thus to use those models directly in the context of production, creates a synthesis between design and construction in keeping with the tradition of the close relationship between design and craftsmanship, between the quality of the design and the rules of the craft.

The evolution of the culture of design and construction is the underlying theme of this book. The aim is to discuss the direction that innovation is now taking, with a particular focus on today's cutting-edge architectures. The method addresses the ways in which different societies have dealt with the issues of their age regarding design and construction, the different contributions provided by various techniques, and with them the meanings expressed by the architecture.

As building design using digital tools requires specific skills in the fabrication processes and in the languages used by information technology, the book also offers a practical guide to new methods and techniques of managing and controlling fabrication for AEC. A systematic analysis of new skills used in the design process presents an overview of opportunities for architects and engineers.

By collecting information on significant projects and analyzing them, the book explores the technical and artistic potential of digital technology. The cases studied are the outcomes of groundbreaking projects which were able to give form and significance to technological research. They show that digital tools are not the exclusive prerogative of large firms but can also be adopted by teams working across small and medium-sized firms – firms which have been able to use informed research to link innovative design with the possibilities offered by digital fabrication in architecture.

## Digital Fabrication in Architecture, Engineering and Construction By Luca Caneparo Bibliography

- Sales Rank: #4742998 in Books
- Published on: 2013-10-03
- Original language: English
- Number of items: 1
- Dimensions: 9.53" h x .73" w x 6.16" l, 1.30 pounds
- Binding: Hardcover
- 218 pages

 [Download Digital Fabrication in Architecture, Engineering a ...pdf](#)

 [Read Online Digital Fabrication in Architecture, Engineering ...pdf](#)



## **Editorial Review**

### **Review**

From the reviews:

“The new book Digital Fabrication in Architecture, Engineering and Construction by Luca Caneparo is a much needed book to spread the light of knowledge on digital design and its impact on the construction industry. ... The whole book is a detailed description of the digitalization process and introduces readers to the technical terms and describes it briefly. This immaculately referenced and deftly researched book should take place in bookshelf of every academician, library and teachers of this field.” (Book Review (Jadavpur University), January-March, 2014)

### **From the Back Cover**

Digital technologies are changing the relationship between design and construction: with computer models, CAD/CAM, and prototyping, designers can gain direct control of building and construction processes. The ability to digitally model designs, and thus to use those models directly in the context of production, creates a synthesis between design and construction in keeping with the tradition of the close relationship between design and craftsmanship, between the quality of the design and the rules of the craft.

The evolution of the culture of design and construction is the underlying theme of this book. The aim is to discuss the direction that innovation is now taking, with a particular focus on today's cutting-edge architectures. The method addresses the ways in which different societies have dealt with the issues of their age regarding design and construction, the different contributions provided by various techniques, and with them the meanings expressed by the architecture.

As building design using digital tools requires specific skills in the fabrication processes and in the languages used by information technology, the book also offers a practical guide to new methods and techniques of managing and controlling fabrication for AEC. A systematic analysis of new skills used in the design process presents an overview of opportunities for architects and engineers.

By collecting information on significant projects and analyzing them, the book explores the technical and artistic potential of digital technology. The cases studied are the outcomes of groundbreaking projects which were able to give form and significance to technological research. They show that digital tools are not the exclusive prerogative of large firms but can also be adopted by teams working across small and medium-sized firms – firms which have been able to use informed research to link innovative design with the possibilities offered by digital fabrication in architecture.

## **Users Review**

### **From reader reviews:**

#### **Tonya Sewell:**

Book is written, printed, or outlined for everything. You can understand everything you want by a guide. Book has a different type. To be sure that book is important matter to bring us around the world. Adjacent to that you can your reading talent was fluently. A book Digital Fabrication in Architecture, Engineering and

Construction will make you to end up being smarter. You can feel much more confidence if you can know about anything. But some of you think which open or reading any book make you bored. It is not make you fun. Why they may be thought like that? Have you looking for best book or ideal book with you?

**Robin Almeida:**

The event that you get from Digital Fabrication in Architecture, Engineering and Construction is the more deep you digging the information that hide inside the words the more you get interested in reading it. It does not mean that this book is hard to understand but Digital Fabrication in Architecture, Engineering and Construction giving you buzz feeling of reading. The article author conveys their point in certain way that can be understood through anyone who read that because the author of this guide is well-known enough. This particular book also makes your own personal vocabulary increase well. Therefore it is easy to understand then can go with you, both in printed or e-book style are available. We advise you for having that Digital Fabrication in Architecture, Engineering and Construction instantly.

**Elijah McWhorter:**

The book untitled Digital Fabrication in Architecture, Engineering and Construction contain a lot of information on the idea. The writer explains your girlfriend idea with easy means. The language is very straightforward all the people, so do certainly not worry, you can easy to read this. The book was published by famous author. The author brings you in the new time of literary works. You can easily read this book because you can please read on your smart phone, or product, so you can read the book inside anywhere and anytime. In a situation you wish to purchase the e-book, you can start their official web-site and also order it. Have a nice read.

**Charles Krueger:**

What is your hobby? Have you heard which question when you got college students? We believe that that problem was given by teacher to the students. Many kinds of hobby, Every person has different hobby. So you know that little person such as reading or as reading through become their hobby. You need to know that reading is very important in addition to book as to be the matter. Book is important thing to add you knowledge, except your own teacher or lecturer. You see good news or update in relation to something by book. Amount types of books that can you take to be your object. One of them is this Digital Fabrication in Architecture, Engineering and Construction.

**Download and Read Online Digital Fabrication in Architecture,  
Engineering and Construction By Luca Caneparo  
#SLEWDYZKUB6**

# **Read Digital Fabrication in Architecture, Engineering and Construction By Luca Caneparo for online ebook**

Digital Fabrication in Architecture, Engineering and Construction By Luca Caneparo Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Digital Fabrication in Architecture, Engineering and Construction By Luca Caneparo books to read online.

## **Online Digital Fabrication in Architecture, Engineering and Construction By Luca Caneparo ebook PDF download**

### **Digital Fabrication in Architecture, Engineering and Construction By Luca Caneparo Doc**

Digital Fabrication in Architecture, Engineering and Construction By Luca Caneparo Mobipocket

Digital Fabrication in Architecture, Engineering and Construction By Luca Caneparo EPub