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Autore	Naboni Roberto
Titolo	Advanced Customization in Architectural Design and Construction // by Roberto Naboni, Ingrid Paoletti
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ISBN	3-319-04423-0
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (174 p.)
Collana	PoliMI SpringerBriefs, , 2282-2577
Disciplina	690
Soggetti	Building—Superintendence Construction industry—Management Construction superintendence Computer-aided engineering Manufactures Design Construction Management Computer-Aided Engineering (CAD, CAE) and Design Manufacturing, Machines, Tools, Processes Design, general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- The Third Industrial Revolution -- Advanced Machinery -- How to build (almost) anything customized -- Towards a 100% Customized Architecture -- Project credits.
Sommario/riassunto	This book presents the state of the art in advanced customization within the sector of architectural design and construction, explaining important new technologies that are boosting design, product and process innovation and identifying the challenges to be confronted as we move toward a mass customization construction industry. Advanced machinery and software integration are discussed, as well as an overview of the manufacturing techniques offered through digital methods that are acquiring particular significance within the field of digital architecture. CNC machining, Robotic Fabrication, and Additive Manufacturing processes are all clearly explained, highlighting their

ability to produce personalized architectural forms and unique construction components. Cutting-edge case studies in digitally fabricated architectural realizations are described and, looking towards the future, a new model of 100% customized architecture for design and construction is presented. The book is an excellent guide to the profound revolution taking place within the fields of architectural design and construction, characterized by computational tools, advanced fabrication means and custom-made high-performance architecture.

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