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Autore	Chiesa Giacomo
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Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (xvii, 192 pages)
Collana	PoliTO Springer Series, , 2509-6796
Disciplina	720
Soggetti	Buildings—Design and construction Building Construction Engineering, Architectural Computer-aided engineering Sustainable architecture Computer simulation Building Construction and Design Computer-Aided Engineering (CAD, CAE) and Design Sustainable Architecture/Green Buildings Simulation and Modeling
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- ICT, data and design issues -- Modelling reality, modelling virtuality -- Scripting and parametric CAD modelling for performance-driven design -- Real time monitoring -- Platform – A space for project design and an interface between reality and virtuality -- Data, properties, smart city -- Conclusions.
Sommario/riassunto	The book connects the ICT and the architectural worlds, analyzing modeling, materialization and data-driven visions for design issues at different scales. Furthermore, using sample modeling and materialization tools, it explores the links between performance-driven design approaches and the application of new digital technologies. Intended for architects and urbanists, it provides a theoretical

framework to address the implications of the digital revolution in building design and operation. Furthermore, combining insights from IT and ICT with architectural and urban design know-how, it offers engineering professionals a technology-driven interpretation of the building design field.
