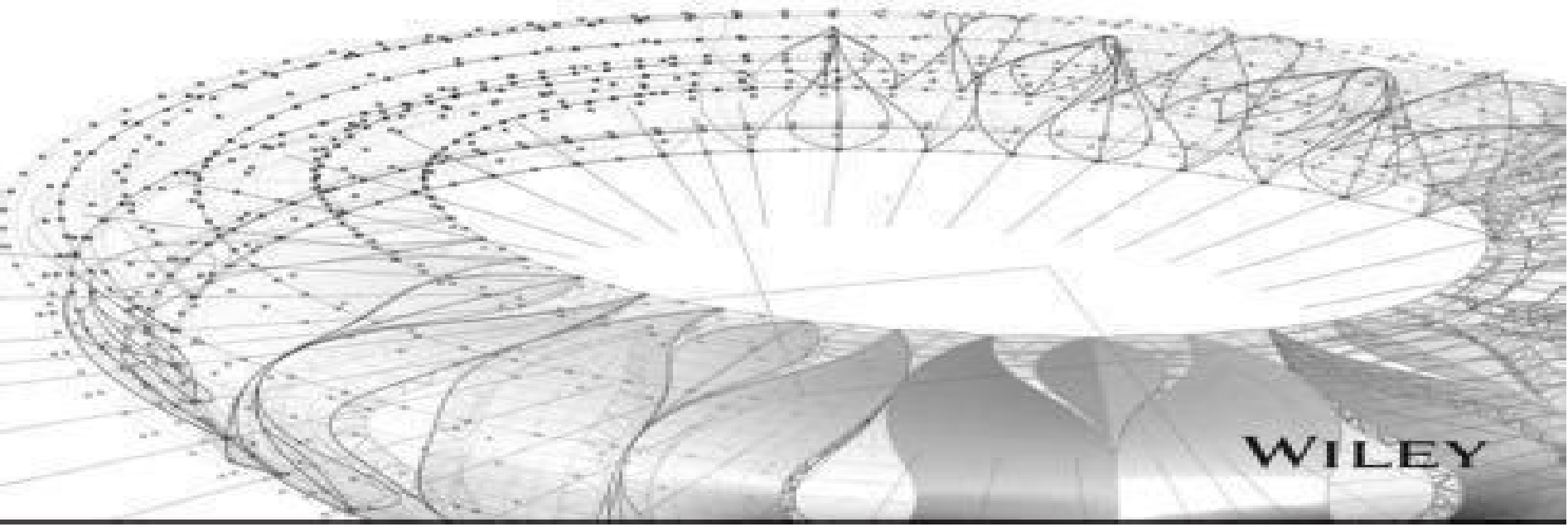


DATA-DRIVEN DESIGN AND CONSTRUCTION



25 STRATEGIES FOR CAPTURING, ANALYZING,
AND APPLYING **BUILDING DATA**

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Data Driven Design And Construction 25 Strategies For Capturing Analyzing And Applying Building Data

**Ata Chokhachian, Michael U.
Hensel, Katia Perini**



Data Driven Design And Construction 25 Strategies For Capturing Analyzing And Applying Building Data:

Data-Driven Design and Construction Randy Deutsch, 2015-08-27 In this comprehensive book Professor Randy Deutsch has unlocked and laid bare the twenty first century codice nascosto of architecture It is data Big data Data as driver This book offers us the chance to become informed and knowledgeable pursuers of data and the opportunities it offers to making architecture a wonderful useful and smart art form From the Foreword by James Timberlake FAIA Written for architects engineers contractors owners and educators and based on today s technology and practices Data Driven Design and Construction 25 Strategies for Capturing Applying and Analyzing Building Data addresses how innovative individuals and firms are using data to remain competitive while advancing their practices seeks to address and rectify a gap in our learning by explaining to architects engineers contractors and owners and students of these fields how to acquire and use data to make more informed decisions documents how data driven design is the new frontier of the convergence between BIM and architectural computational analyses and associated tools is a book of adaptable strategies you and your organization can apply today to make the most of the data you have at your fingertips Data Driven Design and Construction was written to help design practitioners and their project teams make better use of BIM and leverage data throughout the building lifecycle

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Data, Matter, Design Frank Melendez, Nancy Diniz, Marcella Del Signore, 2020-09-29 Data Matter Design presents a comprehensive overview of current design processes that rely on the input of data and use of computational design strategies and their relationship to an array of outputs Technological changes through the use of computational tools and processes have radically altered and influenced our relationship to cities and the methods by which we design architecture urban and landscape systems This book presents a wide range of curated projects and contributed texts by leading architects urbanists

and designers that transform data as an abstraction into spatial experiential and performative configurations within urban ecologies emerging materials robotic agents adaptive fields and virtual constructs Richly illustrated with over 200 images Data Matter Design is an essential read for students academics and professionals to evaluate and discuss how data in design methodologies and theoretical discourses have evolved in the last two decades and why processes of data collection measurement quantification simulation algorithmic control and their integration into methods of reading and producing spatial conditions are becoming vital in academic and industry practices

The Designer's Field Guide to Collaboration Caryn Brause, 2016-11-18 The Designer's Field Guide to Collaboration provides practitioners and students with the tools necessary to collaborate effectively with a wide variety of partners in an increasingly socially complex and technology driven design environment Beautifully illustrated with color images the book draws on the expertise of top professionals in the allied fields of architecture landscape architecture engineering and construction management and brings to bear research from diverse disciplines such as software development organizational behavior and outdoor leadership training Chapters examine emerging and best practices for effective team building structuring workflows enhancing communication managing conflict and developing collective vision all to ensure the highest standards of design excellence Case studies detail and reflect on the collaborative processes used to create award winning projects by Studio Gang Perkins Will Tod Williams Billie Tsien Architects Partners Gensler CDR Studio Mahlum Architects In Site Architecture and Thornton Tomasetti's Core Studio The book also provides pragmatic ideas and formal exercises for brainstorming productively evaluating ideas communicating effectively and offering feedback By emphasizing the productive influence and creative possibilities of collaboration within the changing landscape of architectural production the book proposes how these practices can be taught in architecture school and expanded in practice In a changing world that presents increasingly complex challenges optimizing these collaborative skills will prove not only necessary but crucial to the process of creating advanced architecture

BIM-Based Collaborative Building Process Management Bruno Daniotti, Alberto Pavan, Sonia Lupica Spagnolo, Vittorio Caffi, Daniela Pasini, Claudio Mirarchi, 2019-11-02 The book reports on the great improvements in the information and knowledge management due to the digitalization of the building sector By summarizing several research projects addressing the implementation of BIM in different stages of the building process and the definition of standards at Italian European and international levels for managing information relying on the implementation of BIM based processes it showcases the efforts especially within the Italian building sector to build a standardized structure of information and develop tools for collecting sharing and exchanging information between stakeholders involved in different stages of the building process so as to enhance the storage traceability usability and re usability of information management Further it presents an enhanced use of information that relies on the adoption of the standardized structure of information and proposes dedicated applications for automating the process of information fruition Lastly it features a digital platform for different stakeholders in the building

sector such as manufacturers producers and construction companies

Informed Urban Environments Ata Chokhachian, Michael U. Hensel, Katia Perini, 2022-05-09 This book collects ground breaking works on the actual and potential impact of big data and data integrated design for resilient urban environments including human and ecology centred perspectives Comprehending and designing for urban social demographic and environmental change is a complex task Big data data structuring data analysis i e AI and ML and data integrated design can play a significant role in advancing approaches to this task The themes presented in this book include urban adaptation urban morphology urban mobility urban ecosystems urban climate urban ecology and agriculture Given the compound nature of complex sustainability problems most chapters address the correlation between several of these themes The book addresses practitioners researchers and graduate students concerned with the rapidly increasing role of data in developing urban environments

Advances in Informatics and Computing in Civil and Construction Engineering Ivan Mutis, Timo Hartmann, 2018-10-08 This proceedings volume chronicles the papers presented at the 35th CIB W78 2018 Conference IT in Design Construction and Management held in Chicago IL USA in October 2018 The theme of the conference focused on fostering encouraging and promoting research and development in the application of integrated information technology IT throughout the life cycle of the design construction and occupancy of buildings and related facilities The CIB International Council for Research and Innovation in Building Construction was established in 1953 as an association whose objectives were to stimulate and facilitate international cooperation and information exchange between governmental research institutes in the building and construction sector with an emphasis on those institutes engaged in technical fields of research The conference brought together more than 200 scholars from 40 countries who presented the innovative concepts and methods featured in this collection of papers

Research Anthology on BIM and Digital Twins in Smart Cities Management Association, Information Resources, 2022-09-16 In recent years smart cities have been an emerging area of interest across the world Due to this numerous technologies and tools such as building information modeling BIM and digital twins have been developed to help achieve smart cities To ensure research is continuously up to date and new technologies are considered within the field further study is required The Research Anthology on BIM and Digital Twins in Smart Cities considers the uses challenges and opportunities of BIM and digital twins within smart cities Covering key topics such as data design urban areas technology and sustainability this major reference work is ideal for industry professionals government officials computer scientists policymakers researchers scholars practitioners instructors and students

Trading Places David Hamers, Naomi Bueno de Mesquita, Annelies Vaneycken, Jessica Schoffelen, 2017-05-26 Trading Places rethinks develops and tests design driven practices and methods to engage with participation in public space and public issues With this book we aim to help art and design researchers students practitioners and the multiple stakeholders they collaborate with to explore what participatory ways of working in our contemporary urban environment entail Six approaches are discussed intervention performative

mapping play data mining modelling in dialogue and curating Each approach offers a different kind of logic and produces a different type of knowledge Trading Places invites the reader to discover common ground explore new territories and exchange points of view in short to trade perspectives on issues of participation **Towards Radical Regeneration**

Christoph Gengnagel,Olivier Baverel,Giovanni Betti,Mariana Popescu,Mette Ramsgaard Thomsen,Jan Wurm,2022-09-17 This book reflects and expands on the current trends in the Architecture Engineering and Construction AEC industries to respond to the unfolding climate and biodiversity crisis Shifting away from the traditional focus narrowly centered on efficiency the book presents a variety of approaches to move the AEC community from an approach that presents new challenges in all areas of the industry from a linear extractive paradigm to circular and regenerative one The book presents contributions including research papers and case studies providing a comprehensive overview of the field as well as perspectives from related disciplines such as computer science biology and material science The chapter authors were invited speakers at the 8th Design Modelling Symposium Towards Radical Regeneration which took place at the University of the Arts in Berlin in September 2022 Chapter Hybrid Immediacy Designing with Artificial Neural Networks Through Physical Concept Modelling is available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com) *Digital Transformation of Multidisciplinary Design Firms* Marcella M. Bonanomi,2019-06-19 This book analyzes the process oriented and organizational changes related to the digital transformation of multidisciplinary design firms Based on this it proposes a systematic analysis based methodology for change management which consists of two distinct but complementary components a framework and a set of analysis methods It particularly focuses on the relationship between the new paradigms perspectives and context of change related to digital transformation The proposed framework combines these three elements in order to identify and address areas of investigation concerning process oriented and organizational changes in the context of digital transformation and also quantitatively and qualitatively assesses these changes in practice This book offers the first comprehensive review of change management and digital practice and includes case studies to enhance readers understanding of change management in the context of the digitalization As such it is of interest to both industry practitioners and researchers

Architecture and Design for Industry 4.0 Maurizio Barberio,Micaela Colella,Angelo Figliola,Alessandra Battisti,2023-10-06 This book collects contributions of forefront research and practices related to the use of the enabling technologies of Industry 4 0 in the architecture and design fields and their impact on the UN s Sustainable Developments goals The book is structured into three sections research practice and technologies with the goal of creating a new framework useful for widespread awareness necessary to initiate technology transfer processes for the benefit of the public sector universities research centers and innovative companies and a new professional figure capable of controlling the entire process is essential Thus the book chapters arouse a series of relevant topics such as computational and parametric design performance based architecture data driven design strategies parametric environmental design and

analysis computational and parametric structural design and analysis AI and machine learning BIM and interoperability VR and AR digital and robotic fabrication additive manufacturing and 3D printing R D and entrepreneurship circular architecture and didactics In the post digital era where the essence of design lies in the control and information of the process that holistically involves all the aspects mentioned above rather than in formal research it is necessary to understand technologies and analyze the advantages that they can bring in terms of environmental sustainability and product innovation

Architectural Design Instruments Sébastien Bourbonnais, 2024-07-23 While it is undeniable that architectural practices have been transformed with the advent of digital technologies they nevertheless continue to occupy an ambiguous or even problematic place within the design process The underlying premise of this book on architectural design instruments is not to see them simply as means to an autonomous end one that is pure and detached from any other technological aspect but instead to see these instruments and their formative abilities as a different way in which architects can approach design We maintain that it is through the very act of experimentation with these instruments that their various potentials are revealed and established It is through such repeated experimentation which is constantly being revised and consolidated that practice is successfully and sustainably transformed This view is less of a wish than it is an observation and as such it can be seen in the various practices that are analyzed in this book *Handbook of Research on Developing Smart Cities Based on Digital Twins* Del Giudice, Matteo, Osello, Anna, 2021-01-15 The advent of connected smart technologies for the built environment may promise a significant value that has to be reached to develop digital city models At the international level the role of digital twin is strictly related to massive amounts of data that need to be processed which proposes several challenges in terms of digital technologies capability computing interoperability simulation calibration and representation In these terms the development of 3D parametric models as digital twins to evaluate energy assessment of private and public buildings is considered one of the main challenges of the last years The ability to gather manage and communicate contents related to energy saving in buildings for the development of smart cities must be considered a specificity in the age of connection to increase citizen awareness of these fields The Handbook of Research on Developing Smart Cities Based on Digital Twins contains in depth research focused on the description of methods processes and tools that can be adopted to achieve smart city goals The book presents a valid medium for disseminating innovative data management methods related to smart city topics While highlighting topics such as data visualization a web based ICT platform and data sharing methods this book is ideally intended for researchers in the building industry energy and computer science fields public administrators building managers and energy professionals along with practitioners stakeholders researchers academicians and students interested in the implementation of smart technologies for the built environment Convergence Randy Deutsch, 2017-05-02 There is today a pronounced and accelerated convergence in architecture This convergence is occurring by doers not thinkers in practice not academia in building design fabrication and construction It is about solution centric

individuals engaged in real time problem solving not in abstractions The nature of this convergence where things are converging and what that means for architecture is the subject of this book from the Introduction Those working in architecture and engineering feel pressure to work faster at lower cost while maintaining a high level of innovation and quality At the same time emergent tools and processes make this possible Convergence is about the firms teams and people who thrive in this environment as a result of their ability to creatively combine and innovate It seeks to answer several timely questions What are the tools and work processes that are converging How are individuals and organizations converging their tools and work processes What challenges and benefits are they seeing What is the ultimate endgame of this convergence What skillsets and mindsets would someone need to develop to work effectively in this changing environment What are the implications of convergence on the role of the designer and on design On how we design build fabricate and construct On how we work The book explains how convergence relates to but ultimately differs from integration consolidation multi tasking automation and other forms of optimization The practice based research builds upon the author s research in BIM and in the collaborative leveraging of data in design and fabrication As an investigation and meditation on the impact of technology on the education and making of design professionals Convergence explains what is happening in the world of design and discusses the implications for the future of education training and practice

Integrating Innovation in Architecture Ajla Aksamija, 2017-03-13 Today s design professionals are faced with challenges on all fronts They need not only to keep in step with rapid technological changes and the current revolution in design and construction processes but to lead the industry This means actively seeking to innovate through design research raising the bar in building performance and adopting advanced technologies in their practice In a constant drive to improve design processes and services how is it possible to implement innovations And moreover to assimilate them in such a way that design methods and technologies remain fully integrated Focusing on innovations in architecture this book covers new materials and design methods advances in computational design practices innovations in building technologies and construction techniques and the integration of research with design Moreover it discusses strategies for integrating innovation into design practices risks and economic impacts Through numerous case studies it illustrates how innovations have been implemented on actual architectural projects and how design and technical innovations are used to improve building performance as well as design practices in cutting edge architectural and engineering firms Projects of all scales and building types are discussed in the book ranging from small scale installations academic and commercial buildings to large scale mixed use healthcare civic academic scientific research and sports facilities Work from design firms around the globe and of various scales is discussed in the book including for example Asymptote Architecture cepezed CO Architects Consarc Architects FAAB Architektura Gerber Architekten HOK IDOM ACXT MAD Architects Morphosis Architects SDA Synthesis Design Architecture Studiotrope Perkins Will Richter Dahl Rocha Associ s Sn hetta Rob Ley Studio Trahan Architects UNStudio and Zaha Hadid Architects among

many others Workflows Richard Garber,2017-03-27 Workflows are being rethought and remodelled across the architecture engineering and construction AEC spectrum The synthesis of building information modelling BIM platforms with digital simulation techniques and increasing access to data charting building performance is allowing architects to engage in the generation of new workflows across multidisciplinary teams By merging digital design operations with construction activities project delivery and post occupation scenarios architects are becoming instrumental in the shaping of buildings as well as the design process Workflows expand the territory of architectural practice by extending designers remit beyond the confines of the design stage The implications for the AEC industry and architecture as a profession could not be greater These new collaborative models are becoming as important as the novel buildings they allow us to produce Contributors include Shajay Bhooshan John Cays Randy Deutsch Sean Gallagher Ian Keough Peter Kis Jonathan Mallie Adam Modesitt Rhett Russo Dale Sinclair and Stacie Wong Featured architects Arup Diller Scofidio Renfro GLUCK GRO Architects PLANT Populous Young Ayata and Zaha Hadid Architects **Post-industrial Robotics** Angelo Figliola,Alessandra Battisti,2020-07-01 This book highlights the concept of informed architecture as an alternative to performance based approaches Starting with an analysis of the state of art the book defines an operative methodology in which performative parameters lead to the generation of the shape becoming the design s input rather than being mere quantitative parameters It then uses case studies to investigate the methodology Lastly the book discusses a novel way of conceiving and using the manufacturing tool which is the basis for the definition of informed architectures in relation to data usage and the optimization process *Interdisciplinary Design Thinking in Architecture Education* Julie Kim,2023-12-08 This book explores the creative potential for architecture curricula to integrate solid interdisciplinary thinking in design studio education Annotated case studies both from academic institutions and from professional practices provide examples of interdisciplinary engagement in creative design work highlighting the challenges and opportunities of this approach Cases are from a diverse selection of international collaborators featuring projects from the United States Australia Mexico Germany and Italy and cover a range of project types and scales Chapters by invited experts offer speculations on current and future models situating examples within the broader context and encouraging dialogue between practice and pedagogy The collection of voices in this book offers critical and provocative lenses learning from history while forging inventive and creative roles for the architect as practitioner entrepreneur strategist choreographer activist facilitator leader and teacher Interdisciplinary Design Thinking provides insights into the potential of interdisciplinary engagement at the level of foundational undergraduate education making it ideal for faculty in architecture schools It will also be of interest to design professionals concerned with interdisciplinary collaboration and how to incorporate similar efforts in their own practices Future Challenges in Evaluating and Managing Sustainable Development in the Built Environment Peter S. Brandon,Patrizia Lombardi,Geoffrey Q. Shen,2017-04-05 Future Challenges in Sustainable Development within the Built

Environment stimulates and reinterprets the demands of Responsible and Sustainable Development in the Built Environment for future action and development It examines the methods of evaluation the use of technology the creation of new models and the role of human factors for examining and developing the subject over the next twenty years

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