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Autore	Deutsch Randy
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Nota di contenuto	Data-Driven Design and Construction; Contents; Foreword; Preface; Acknowledgments; Introduction: Measuring the Immeasurable, Validating the Ineffable; Not One More Thing; Strategies for Practice; Benefits of Gathering, Analyzing, and Applying Building Data; Challenges of Gathering, Analyzing, and Applying Building Data; Strategy No. 1: Hone in on Key Information; Strategy No. 2: Demonstrating Works, Explaining Doesn't; PART I Why Data, Why Now?; Chapter 1 The Data Turn; Five Factors Leading to the Leveraging of Data and Industry Change; Strategy No. 3: Look Outside the Industry Case Study Interview with Robert YoriStrategy No. 4: Not Big Data, Smart Data; Case Study Interview with Sean D. Burke; Data versus Documents; Case Study Interview with Jonatan Schumacher; Chapter 2 A Data-Driven Design Approach for Buildings; Five Trends Leading to the Rise of Data in the AECO Industry; Strategy No. 5: Eight Questions to Ask for Data Preparedness; Case Study Interview with Zigmund Rubel; Data-Centric Approaches; Case Study Interview with Andrew Heumann; Strategy No. 6: Four Steps toward Making the Change to Be More Data-Centric; Strategy No. 7: Ask Good Questions Case Study Interview with Jonathon BroughtonChapter 3 Learning from Data; Five Factors Ensuring Data Preparedness; Training, Learning, and Working with Data; Case Study Interview with Brian Ringley; Strategy

No. 8: Play with Data; Case Study Interview with Toru Hasegawa; Case Study Interview with Aimee Buccellato; PART II Capturing, Analyzing, and Applying Building Data; Chapter 4 Capturing and Mining Project Data; Public Sources of Data; Case Study Interview with Ryan Mullenix; Private Data Sources; Case Study Interview with Sam Miller; Having a Data Collection Strategy

Strategy No. 9: Create a Data Collection Strategy Case Study Interview with Gregory Janks; Strategy No. 10: First Steps to Becoming Data-

Centric; Chapter 5 Analyzing Data; Analysis versus Analytics; Strategy No. 11: First Steps in Applying Data Analysis; Predictive Analytics; Case

Study Interview with Mads Jensen; Strategy No. 12: Two Ways to Think about Energy Analysis; Strategy No. 13: Analysis for Sustainable Design;

Case Study Interview with Chris Pyke, PhD; Strategy No. 14: How Analysis Informs Decision Making; Strategy No. 15: Start Simple,

Technology Optional

Strategy No. 16: Leverage Data as Means to an End Case Study Interview with Brendon Levitt; Dhour Case Study; Chapter 6 Applying Data; First

Steps; Strategy No. 17: First Steps Before Applying Data; Strategy No. 18: Plan for the Data; Case Study Interview with Billie Faircloth; Data-

Enabled Project Teams; Strategy No. 19: Should the Data Team Be Integrated or Stationed in the Corner?; Case Study Interview with

Andrew Witt; Data-Intensive Roles; Strategy No. 20: Computer Scientist vs. Emerging Professional; Case Study Interview with Greig Paterson;

Leadership in Data

Leadership in Data

PART III What Data Means for You, Your Firm, Profession, and Industry

Sommario/riassunto

"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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