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for facilitating the interaction with (and between) BIMs through Web services, and for enabling and facilitating the fusion of the information residing in such models or of information acquired from IoT technologies.

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internet-of-things (IoT) technologies and Web-service design patterns to enrich and integrate Building Information Models (BIMs). It provides approaches and software architectures for facilitating the interaction with (and between) BIMs through Web services, and for enabling and facilitating the fusion of the

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Building residing in such models or of information acquired from IoT technologies.

The proposed software architectures are presented in the form of design patterns. This information fusion will facilitate many novel application fields ranging from emergency response, to urban monitoring and

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surveillance, and to smart buildings. The book consists of 8 chapters. The first 2 chapters focus on the basics of BIMs, while chapter 3 presents fundamental service-oriented architecture patterns for complex information models. Subsequently, chapters 4 and 5 elaborate on the hardware and software

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side of IoT, with a special focus on their use for BIMs. Chapter 6 provides advanced SOA patterns for BIMs, while chapter 7 details patterns for IoT, and for BIM and IoT information fusion.

Lastly, chapter 8 summarizes the work and provides an outlook on promising future developments. Overall,

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the book will be beneficial for researchers and developers in the fields of building information models, IoT applications, and systems integration.

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service design patterns to enrich and integrate Building Information Models (BIMs). It provides approaches and software architectures for facilitating the interaction with (and between) BIMs through Web services, and for enabling and facilitating the fusion of the information residing in such models or of

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Building information acquired from IoT technologies. The proposed software architectures are presented in the form of design patterns.

Everything you need to make the most of building information modeling If you're looking to get involved in the world of BIM, but don't quite know where

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to start, Building Information Modeling For Dummies is your one-stop guide to collaborative building using one coherent system of computer models rather than as separate sets of drawings. Inside, you'll find an easy-to-follow introduction to BIM and hands-on guidance for understanding drivers

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for change, the benefits of BIM, requirements you need to get started, and where BIM is headed. The future of BIM is bright—it provides the industry with an increased understanding of predictability, improved efficiency, integration and coordination, less waste, and better value and quality.

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Additionally, the use of BIM goes beyond the planning and design phase of the project, extending throughout the building life cycle and supporting processes, including cost management, construction management, project management, and facility operation. Now heavily adopted in the

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U.S., Hong Kong, India, Singapore, France, Canada, and countless other countries, BIM is set to become a mandatory practice in building work in the UK, and this friendly guide gives you everything you need to make sense of it—fast. Demonstrates how BIM saves time and waste on site Shows you how the

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Building information generated from BIM leads to fewer errors on site Explains how BIM is based on data sets that describe objects virtually, mimicking the way they'll be handled physically in the real world Helps you grasp how the integration of BIM allows every stage of the life cycle to work together without data or

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Building conflict Written by a team of well-known experts, this friendly, hands-on guide gets you up and running with BIM fast.

This book gathers the proceedings of the EPPM 2019 conference, and highlights innovative work by researchers and practitioners active in

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various industries
around the globe.
Recent advances in
science and technology
have made it possible to
seamlessly connect and
integrate various
elements of engineering
systems, and opened the
door for innovations that
have transformed how
we live and work. While
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have yielded enhanced

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efficiency and numerous improvements in our current practices, the problems caused by the increased complexity of these integrated systems can be extremely difficult. Accordingly, solving these problems involves applying cross-disciplinary expertise to address the heterogeneity of the various elements

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update on the
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It is generally accepted
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technologies offer considerable advantages to many participants in the construction sector.

Currently, there exists a whole range of commercially available BIM software platforms that are specialized to suit the functional needs of their main users.

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Building Information Modeling is a critical scholarly resource that examines building information modeling and the integration of 3-D information in the urban built environments.

Featuring coverage on a broad range of topics such as integrated project delivery, design collaboration, and 3-D model visualization, this

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book is geared towards engineers, architects, contractors, consultants, and facility managers seeking current research on methodologies, concepts, and instruments being used in the field of 3-D information modeling.

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and Operations contains the proceedings of the first in a planned series of conferences dealing with design coordination, construction, maintenance, operation and decommissioning. The book gives details of how BIM tools and techniques have fundamentally altered the manner in which

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future trends. The interdisciplinary nature of the contents and the collaborative practices discussed, so important within the built environment, will appeal to those engaged in design, surveying, visualisation, infrastructure, real estate, construction law, insurance, and facilities management. Topics

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covered include: BIM in design coordination; BIM in construction operations, BIM in building operation and maintenance; BIM and sustainability; BIM and collaborative working and practices; BIM health and safety and BIM-facilities management integration, among others.

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Rapid urbanization has created an

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book explains the theoretical basis and practicality of

connecting urban land administration practices with the 3D digital data

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environment of Building Information Modelling (BIM). The main focus is to adopt a BIM-based paradigm for enhancing communication and management of complex ownership rights in multi-story buildings, which are prevalent in urban built environments. This book first elaborates on a range of data elements

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required for managing legal information in current land administration practices pertaining to subdivision of legal interests within multi-story building developments. It then explains how an open data model in the BIM domain – Industry Foundation Classes (IFC) – can be extended

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with legal data elements to lay the foundation for adopting BIM in urban land administration. The book also highlights benefits and barriers of implementing BIM-enabled urban land administration. Features Explains the theoretical basis and practicality of connecting urban land administration practices with the 3D digital data

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environment of BIM.

Highlights the existing challenges associated with current practice of urban land

administration for multi-story buildings.

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can be extended for recording, managing, and representing legal ownership of properties over a building's lifecycle. Includes models of multi-story buildings as case studies to demonstrate the feasibility of extended BIM-based data models.

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computational technologies has significantly changed design and design education beyond the replacement of drawing boards with computers or pens and paper with computer-aided design (CAD), computer-aided manufacturing (CAM), and computer-aided engineering (CAE) applications.

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of interacting policies,
processes and
technologies that
generates a

methodology to manage
the essential building
design and project data
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throughout the
building's life cycle.

BIM, makes explicit, the
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exists between structure,
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by technologically
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streamlined, integrated, and efficient business processes throughout the lifecycle of buildings, from their initial conception through their eventual retirement or reuse. The result is better quality buildings, lower construction and operating costs, shorter project turnaround times, and a higher quality of

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building information

to support better

business decisions.

Moreover, they set forth

a plan for incorporating

BIM into every

organization's

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enabling you to take full

advantage of all the

benefits that BIM offers.

Everything you need to

implement a BIM

approach is set forth in

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detail, including: The business case for BIM, demonstrating how it can

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tools, and the uneven rates of BIM adoption. The “big picture” view showing how your organization can work with business partners and fit into the building life cycle in a BIM-enabled industry. Throughout the book, sample documents and figures help you better understand the principles of BIM and

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