Building Information Modeling (PocketArchitecture)

Synopsis

This is aÃ Â design guide for architects, engineers, and contractors concerning the principles and specific applications of building information modeling (BIM). BIM has the potential to revolutionize the building industry, and yet not all architects and construction professionals fully understand what the benefits of BIM are or even the fundamental concepts behind it. As part of the PocketArchitecture Series it includes two parts: fundamentals and applications, which provide a comprehensive overview of all the necessary and essential issues. It also includes case studies from a range of project sizes that illustrate the key concepts clearly and use a wide range of visual aids. Building Information Modeling addresses the key role that BIM is playing in shaping the software tools and office processes in the architecture, engineering, and construction professions. Primarily aimed at professionals, it is also useful for faculty who wish to incorporate this information into their courses on digital design, BIM, and professional practice. As a compact summary of key ideas it is ideal for anyone implementing BIM.

Book Information

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Customer Reviews

"This book offers something new to the market. Its format and content make it unique and hence appealing to potential purchasers." Ã¢â ¬â ¢Stephen Emmitt, University of Bath

Author’s description of the book:The growing acceptance of building information modeling (BIM) is

an acknowledgment that the building industry has fundamentally changed. The information contained in a BIM can be used for other purposes such as predicting energy consumption, cost, scheduling, clashes between systems, and can even be leveraged for facilities management uses. Entire suites of software theoretically can hook into the virtual building description for specialized uses. This book addresses many key roles that BIM is playing in shaping professional offices and project delivery processes. It is a professional design guide for architects, engineers, and contractors (and students!) concerning the principles and specific applications of BIM. Those wishing to understand how to make the transition from CAD to BIM will benefit as well those looking to push the boundaries of digital technologies. The book is divided into two parts: Fundamentals and Application. Fundamentals defines terms, explores issues, and predicts future opportunities that BIM offers. Many key ideas are introduced including parametrics, the roles of BIM for different stakeholders, the single model versus federated models, the BIM Execution Plan, and what is on the computing horizon. It is subdivided into five chapters: BIM Overview, Stakeholders and BIM's Many Roles, Data Exchange and Interoperability, BIM Implementation, and Beyond Basic BIM. Application: project case studies, focuses on specific examples of how BIM is actually being implemented and successfully integrated into four offices. These firms provide vignettes on specific buildings that show successes and missed opportunities and give advice to other professionals. The architecture and construction firms were asked to describe a project, explain their experiences with BIM, discuss successes and opportunities to improve, and give advice about what they might have done differently. The four case studies are designLAB Architects: Small BIM tames big BrutalismZGF: BIM in transition - making the leap at a large firmCASE: Building information coordinatorsMortenson Construction: Outstanding project success through collaborationFrom the neophyte to the BIM-savvy, this book, from defining fundamental concepts and exploring new innovations, encourages everyone to learn more about building information modeling.

I bought the print version of this book. The contents are excellent. Most of the book provides a deep overview of BIM, the stakeholders and implementation. Chapter 5 is the best chapter, covering issues "Beyond Basic BIM." The last part of the book has four "project Case Studies" from different firms. Lots of great graphics and description. This book goes way beyond "overview." I have several BIM books that I like (such as the Eastman handbook). This one ranks right up there with the best.

Building Information Modeling (Pocket Architecture) is a great collection of case studies and a relevant perspective on the current BIM industry. The book is very comprehensive and tells the truth

in todayÃƒÂ¢Ã â ¬Ã â„¢s complex world of advanced computer modeling. The book covers just about every aspect of computer modeling as well as all the major software and delivery methods. I would recommend this book to anyone that wants to further their education on the subject of Building Information Modeling.

I got the book at the USC BIM Conference August 22, 2014 and read it over the weekend. It is an excellent, clear treatment of the current state of BIM and should be required reading for every Architecture student and every practicing architect.

This is a great book that puts the big picture of BIM and computation design together. It covers the major venues where current industry/academic interests are, in an effective and efficient manner. Both scholars and professionals should find this book valuable.

Received the book at a conference. The book provides terrific insight about the current state of BIM and its utilization within the AECO industry. It sets up a vector to give any person a guide to what one should aim for when implementing BIM and where time should be invested.

Excellent, comprehensive compilation of relevant case studies in BIM and its application to evolving AEC technology practices.

Amazing job done by Karen simplfying the BIM world & its jargons. Thank you so much for taking efforts to do this, Karen.

The author is a colleague of mine at the USC School of Architecture. This is a comprehensive and well-written book on Building Information Modeling in a dense and compact size.

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