



BIM Handbook: A Guide to Building Information Modeling for Owners, Managers, Designers, Engineers and Contractors

By Chuck Eastman, Paul Teicholz, Rafael Sacks, Kathleen Liston

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"The **BIM Handbook** is an extensively researched and meticulously written book, showing evidence of years of work rather than something that has been quickly put together in the course of a few months. It brings together most of the current information about BIM, its history, as well as its potential future in one convenient place, and can serve as a handy reference book on BIM for anyone who is involved in the design, construction, and operation of buildings and needs to know about the technologies that support it. The need for such a book is indisputable, and it is terrific that Chuck Eastman and his team were able to step up to the plate and make it happen. Thanks to their efforts, anyone in the AEC industry looking for a deeper understanding of BIM now knows exactly where to look for it."

—AECbytes book review, August 28, 2008
(www.aecbytes.com/review/2008/BIMHandbook.html)

Discover BIM: A better way to build better buildings

Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built.

The **BIM Handbook, Second Edition** provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include:

- Completely updated material covering the current practice and technology in this fast-moving field
- Expanded coverage of lean construction and its use of BIM, with special focus on Integrated Project Delivery throughout the book

- New insight on the ways BIM facilitates sustainable building
- New information on interoperability schemas and collaboration tools
- Six new case studies

Painting a colorful and thorough picture of the state of the art in building information modeling, the **BIM Handbook, Second Edition** guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources.

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Editorial Review

Review

"The BIM Handbook bills itself as a "guide", but it is also a history—a compendium of case studies, a detailed look at the underlying software and other technology, and a forward-looking analysis of how BIM will exert increasing influence on the way buildings are designed, constructed, and operated." (*Civil Engineering*, July 2008)

From the Back Cover

Discover BIM: A better way to build better buildings.

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BIM Handbook: A Guide to Building Information Modeling for Owners, Managers, Designers, Engineers, and Contractors provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. The Handbook:

- Introduces Building Information Modeling and the technologies that support it
- Reviews BIM and its related technologies, in particular parametric and object-oriented modeling, its potential benefits, its costs, and needed infrastructure
- Explains how designing, constructing, and operating buildings with BIM differs from pursuing the same activities in the traditional way using drawings, whether paper or electronic
- Discusses the present and future influences of BIM on regulatory agencies; legal practice associated with the building industry; and manufacturers of building products
- Presents a rich set of BIM case studies and describes various BIM tools and technologies
- Shows how specific disciplines—owners, designers, contractors, and fabricators—can adopt and implement BIM in their companies
- Explores BIM's current and future impact on industry and society

Painting a colorful and thorough picture of the state of the art in Building Information Modeling, the BIM Handbook guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to build better buildings, that consume fewer materials, and require less time, labor, and capital resources.

About the Author

Chuck Eastman is a Professor in the Colleges of Architecture and Computing at Georgia Institute of Technology, Atlanta, and Director of the Digital Building Laboratory, a university-industry consortium, where he leads research in IT in building design and construction. He has been active in building modeling research since the 1970s and currently works with a variety of industry groups developing BIM technology.

Paul Teicholz is Professor Emeritus at Stanford University. After twenty-five years innovating with IT

solutions in the construction industry, he founded the Center for Integrated Facility Engineering (CIFE) at Stanford in 1988 and directed that program for ten years. He was named the Construction Management "Man of the Year" by the American Society of Civil Engineers in 1985 and awarded the Henry C. Turner Prize for Innovation in Construction Technology by the National Building Museum in 2006.

Rafael Sacks is an Associate Professor in Structural Engineering and Construction Management at Technion–Israel Institute of Technology. He founded and leads the Virtual Construction and BIM Laboratory at the Israel National Building Research Institute, and has conducted primary and applied BIM research for industry, government, and public organizations in North America, Europe, and Israel.

Kathleen Liston is CEO of Eco Offsite, a modular construction company. She co-founded Common Point Technologies, Inc., a construction simulation software company. She has worked with a variety of organizations, including Autodesk, Walt Disney, DPR Construction, and Mortenson Construction, developing technologies and processes to implement BIM. She has a PhD and master's from Stanford University in civil and environmental engineering and a bachelor of architecture from the University of Notre Dame.

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Irving Gaston:

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BIM Handbook: A Guide to Building Information Modeling for Owners, Managers, Designers, Engineers and Contractors can be one of your beginner books that are good idea. We all recommend that straight away because this publication has good vocabulary that may increase your knowledge in words, easy to understand, bit entertaining but still delivering the information. The article author giving his/her effort to set every word into satisfaction arrangement in writing BIM Handbook: A Guide to Building Information Modeling for Owners, Managers, Designers, Engineers and Contractors yet doesn't forget the main position, giving the reader the hottest and based confirm resource facts that maybe you can be among it. This great information can easily draw you into brand-new stage of crucial contemplating.

Nicholas Tapia:

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