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in another blog post on the Autodesk site about the project. Those themes include “ shape is strength, ” which provides structural advantage that is the result of millions of years of natural selection ...

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The successful design and construction of iconic new buildings relies on a range of advanced technologies, in particular on advanced modelling techniques. In response to the increasingly complex buildings demanded by clients and

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architects, structural engineers have developed a range of sophisticated modelling software to carry out the necessary structural analysis and design work. Advanced Modelling Techniques in Structural Design introduces numerical analysis methods to both students and design practitioners. It illustrates the



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Modelling techniques used to solve structural design problems, covering most of the issues that an engineer might face, including lateral stability design of tall buildings; earthquake; progressive collapse; fire, blast and vibration analysis; non-linear geometric analysis and buckling analysis . Resolution of these design

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problems are demonstrated using a range of prestigious projects around the world, including the Buji Khalifa; Willis Towers; Taipei 101; the Gherkin; Millennium Bridge; Millau viaduct and the Forth Bridge, illustrating the practical steps required to begin a modelling exercise and showing how to select appropriate

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software tools to address specific design problems.

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Representation of the building product and 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, Third Edition provides an in-depth

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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: Information on the ways in which professionals should use BIM to gain

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Exactly how BIM is applied in a wide variety of conditions Painting a colorful and thorough picture of the state of the art in building information modeling, the BIM Handbook, Third Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this

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paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources.

This open access book focuses on the development of methods, interoperable and integrated ICT tools, and survey



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techniques for optimal management of the building process. The construction sector is facing an increasing demand for major innovations in terms of digital dematerialization and technologies such as the Internet of Things, big data, advanced manufacturing, robotics, 3D printing, blockchain technologies and artificial

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Intelligence. The demand for simplification and transparency in information management and for the rationalization and optimization of very fragmented and splintered processes is a key driver for digitization. The book describes the contribution of the ABC Department of the Polytechnic University

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of Milan (Politecnico di Milano) to R&D activities regarding methods and ICT tools for the interoperable management of the different phases of the building process, including design, construction, and management. Informative case studies complement the theoretical discussion. The book will be of interest to all

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stakeholders in the building process - owners, designers, constructors, and faculty managers - as well as the research sector.

Building Product Models thoroughly presents the concepts, technology, and methods now used to work out what will

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reference as well as a single, comprehensive text for university courses. Until now, all the efforts in building modeling have been reported in research journals and conference proceedings or been made available as draft standards on the Internet. Building Product Models is the only book available on this vital field,

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bringing together essential aspects of major efforts from the early 1970s to the present.

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This open access book explores the concept of Industry 4.0, which presents a considerable challenge for the production and service sectors. While digitization initiatives are usually integrated into the central corporate strategy of larger

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Companies, smaller firms often have problems putting Industry 4.0 paradigms into practice. Small and medium-sized enterprises (SMEs) possess neither the human nor financial resources to systematically investigate the potential and risks of introducing Industry 4.0.

Addressing this obstacle, the international

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team of authors focuses on the development of smart manufacturing concepts, logistics solutions and managerial models specifically for SMEs. Aiming to provide methodological frameworks and pilot solutions for SMEs during their digital transformation, this innovative and timely book will be of great

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use to scholars researching technology management, digitization and small business, as well as practitioners within manufacturing companies.

"The BIM Handbook is an extensively researched and meticulously written book, showing evidence of years of work rather



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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

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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

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where to look for it." —AECbytes book review, August 28, 2008 ([www.aecbytes.com/review/2008/BIMHandbook.html](http://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

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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

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technology in this fast-moving field  
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better buildings that consume fewer materials and require less time, labor, and capital resources.

The colorist is responsible for the critical final stage of refinement of the film and broadcast image. Using all of the controls modern color correction software



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Provides, colorists refine the mood, create style, add polish to scenes, and breathe life into the visuals. The craft of color correction can take considerable trial and error to learn, while the art of color grading takes years to perfect. Alexis Van Hurkman draws on his wealth of industry experience to provide a thoroughly

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Professional color correction environment using the latest technologies and adhere to the most up-to-date standards \* Work with log-encoded media and LUTs \* Analyze shots quickly and correct errors of color and exposure \* Create idealized adjustments for key features such as skin tone, skies, and product shots \* Develop

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strategies for balancing clips in a scene to match one another for continuity, and grading greenscreen clips destined for visual effects \* Master a variety of stylistic techniques used to set a scene's mood \* Apply principles of color and contrast to add depth and visual interest \* Browse valuable research about memory colors,

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audience preferences, and critical corrections for achieving appealing skin tones and controlled environments \*  
Follow along with the downloadable files that accompany this book, including HD footage, cross-platform exercises, and project files.

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The best-selling Reinforced Concrete Design provides a straightforward and practical introduction to the principles and methods used in the design of reinforced and prestressed concrete structures. The book contains many worked examples to illustrate the various aspects of design that are presented in the text. The seventh

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edition of the text has been fully revised and updated to reflect the interpretation and use of Eurocode 2 since its introduction. Students and practitioners, both in the UK and elsewhere in the world where Eurocode 2 has been adopted, will find it a concise guide both to the basic theory and to appropriate design



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Vois Professionals  
procedures. Design charts, tables and formulae are included as design aids and, for ease of reference, an appendix contains a summary of important design information. Features of the seventh edition are:

- Completely revised to reflect recent experience of the usage of Eurocode 2 since its introduction in 2004

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and its adoption in the UK as a design standard in 2010 • Further examples of the theory put into practice • A new chapter on water retaining structures in accordance with Eurocode 2, Part 3 • New sections on, for example, design processes including conceptual design, deep beams and an expanded treatment of

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This volume collects about 20 contributions on the topic of robotic construction methods. It is a proceedings volume of the robarch2012 symposium and workshop, which will take place in December 2012 in Vienna. Contributions

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will explore the current status quo in industry, science and practitioners. The symposium will be held as a biennial event. This book is to be the first of the series, comprising the current status of robotics in architecture, art and design.

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