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KAREN M. KENSEK

BUILDING INFORMATION MODELING



Building Information Modeling Pocketarchitecture

Ana Jaramillo,Chris Steel



Building Information Modeling Pocketarchitecture:

Building Information Modeling Karen Kensek, 2014-04-16 This is a 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 *Construction Manager's BIM Handbook* John Eynon, 2016-09-06 CONSTRUCTION MANAGER S BIM HANDBOOK Building Information Modelling BIM harnesses digital technologies to unlock more efficient methods of designing creating and maintaining built environment assets BIM embeds key product and asset data with a 3 dimensional model of a built asset which can be used to foster a collaborative way of working and effective management of information throughout a project lifecycle The UK government is encouraging the adoption of BIM by mandating that all central government departments adopt collaborative Level 2 BIM file based collaboration and library management by 2016 for all construction projects The Construction Manager s BIM Handbook ensures the reader understands what BIM is what the UK strategy is and what it means for key roles in the construction team By providing concise summaries of key aspects of BIM explaining the government documents and intentions and providing pointers on implementation all readers will be fully aware of the implications of BIM for them and their organisations and can begin to adopt this approach in future projects ALSO AVAILABLE The Design Manager s Handbook John Eynon CIOB Paperback 9780470674024 BIM and Construction Management Proven Tools Methods and Workflows 2nd Edition Brad Hardin Dave McCool Paperback 9781118942765 **Architecture and Design: Breakthroughs in Research and Practice** Management Association, Information Resources, 2018-11-02 Technological evolutions have changed the field of architecture exponentially leading to more stable and energy efficient building structures Architects and engineers must be prepared to further enhance their knowledge in the field in order to effectively meet new and advancing standards Architecture and Design Breakthroughs in Research and Practice is an authoritative resource for the latest research on the application of new technologies and digital tools that revolutionize the work of architects globally aiding in architectural design planning implementation and restoration Highlighting a range of pertinent topics such as design anthropology digital preservation and 3D modeling this publication is an ideal reference source for researchers scholars IT professionals engineers architects

contractors and academicians seeking current research on the development and creation of architectural design

Handbook of Research on Emerging Technologies for Architectural and Archaeological Heritage Ippolito, Alfonso, 2016-08-27 Cultural heritage is a vital multifaceted component of modern society To better protect and promote the integrity of a culture certain technologies have become essential tools The Handbook of Research on Emerging Technologies for Architectural and Archaeological Heritage is an authoritative reference source for the latest scholarly research on the use of technological assistance for the preservation of architecture and archaeology in a global context Focusing on various surveying technologies for the study analysis and protection of historical buildings this book is ideally designed for professionals researchers upper level students and practitioners

Life Cycle Assessment Kathrina Simonen, 2014-04-16 Life Cycle Assessment addresses the dynamic and dialectic of building and ecology presenting the key theories and techniques surrounding the use of life cycle assessment data and methods Architects and construction professionals must assume greater responsibility in helping building owners to understand the implications of making material manufacturing and assemblage decisions and therefore design to accommodate more ecological building Life Cycle Assessment is a guide for architects engineers and builders presenting the principles and art of performing life cycle impact assessments of materials and whole buildings including the need to define meaningful goals and objectives and critically evaluate analysis assumptions As part of the PocketArchitecture Series the book includes both fundamentals and advanced topics The book is primarily focused on arming the design and construction professional with the tools necessary to make design decisions regarding life cycle reuse and sustainability As such the book is a practical text on the concepts and applications of life cycle techniques and environmental impact evaluation in architecture and is presented in language and depth appropriate for building industry professionals

Architectural Acoustics Ana Jaramillo, Chris Steel, 2014-10-24 The application of good acoustic design can seem daunting to designers when trying to understand the often complex physics of sound control The ever increasing number of standards and performance criteria that can be requested on new developments further complicates acoustics for architects Architectural Acoustics part of the PocketArchitecture series provides the fundamental theory and understanding of acoustics and applications of effective detailing for specific building types and conditions in an accessible and clear technical guide The book provides a compact and understandable introduction to the fundamentals of building and architectural acoustics definitions of suitable acoustic performance criteria for a wide range of common buildings and room types guidance on specification and detailing of the most suitable construction types in North America and the UK This book is both a handy rule of thumb on acoustics for anyone involved in the design or construction of buildings as well as an essential addition to any architect's reference library

Daylighting and Integrated Lighting Design Christopher Meek, Kevin Van Den Wymelenberg, 2014-10-17 Daylighting and Integrated Lighting Design provides architects building designers and students clear direction for the successful inclusion of daylight and integrated electric light in

buildings It presents design teams with the performance analysis resources energy saving estimates and user satisfaction results they need in order to make informed decisions regarding daylighting and lighting design Written by two well known experts in the field the book provides critical geometric and material relationships along with proven design process activities offered in a quick reference format with sufficient context to address the range of associated issues present in any building project both the fundamentals and applications which cover design concepts and practice activities applicable to all integrated lighting projects specific directives for how the concepts covered are applied in a range of common design scenarios including architectural rules of thumb instructions for ensuring visual comfort and preferred approaches for electric lighting control integration In demonstrating these necessary insights to designers the authors employ an iterative analysis of common daylighting patterns and illustrate and annotate both successful and unsuccessful examples via built form and simulation Part of the PocketArchitecture series this is the ideal pocketbook for any designer serious about reducing the energy impact of their buildings

The Hierarchy of Energy in Architecture Ravi Srinivasan, Kiel Moe, 2015-06-12 The laws of thermodynamics and their implications for architecture have not been fully integrated into architectural design Architecture and building science too often remain constrained by linear concepts and methodologies regarding energy that occlude significant quantities and qualities of energy The Hierarchy of Energy in Architecture addresses this situation by providing a clear overview of what energy is and what architects can do with it Building on the emergy method pioneered by systems ecologist Howard T Odum the authors situate the energy practices of architecture within the hierarchies of energy and the thermodynamics of the large non equilibrium non linear energy systems that drive buildings cities the planet and universe Part of the PocketArchitecture series the book is divided into a fundamentals section which introduces key topics and the emergy methodology and an applications section which features case studies applying emergy to various architectural systems The book provides a concise but rigorous exposure to the system boundaries of the energy systems related to buildings and as such will appeal to professional architects and architecture students

Inclusive Design

Jordana L. Maisel, Edward Steinfeld, Megan Basnak, Korydon Smith, M. Beth Tauke, 2017-10-12 As part of the PocketArchitecture Series this volume focuses on inclusive design and its allied fields ergonomics accessibility and participatory design This book aims for the direct application of inclusive design concepts and technical information into architectural and interior design practices construction facilities management and property development A central goal is to illustrate the aesthetic experiential qualitative and economic consequences of design decisions and methods The book is intended to be a first source reference at the desk or in the field for design professionals contractors and builders developers and building owners

Design Management Stephen Emmitt, 2016-11-18 This is a design guide for architects engineers and contractors concerning the principles and application of design management This book addresses the value that design management and design managers contribute to construction projects As part of the PocketArchitecture series Design

Management is divided into two parts Fundamentals and Application In Part 1 Fundamentals the chapters address the why what how and when questions in a simple and informative style illustrated with vignettes from design management professionals In Part 2 case studies from Colombia Norway and the USA represent unique examples of the application of design management This book offers a concise overview of design management for postgraduate students and early career design managers

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Building Information Modeling Pocketarchitecture Introduction

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