1. Record Nr. UNINA990005384150403321

Autore Ahrem, Maximilian

Titolo Das Weib in der antiken Kunst / Maximilian Ahrem

Pubbl/distr/stampa Jena, : Eugen Diederichs, 1914

Descrizione fisica IV, 320 p.: ill.; 28 cm

Locazione FLFBC

Collocazione ARCH. O 075 4

Lingua di pubblicazione Tedesco

Formato Materiale a stampa

Livello bibliografico Monografia

2. Record Nr. UNINA9910813015703321

Autore Smith Dana K

Titolo Building information modeling : a strategic implementation guide for

architects, engineers, constructors, and real estate asset managers //

Dana K. Smith, Michael Tardif

Pubbl/distr/stampa Hoboken, NJ,: Wiley, c2009

ISBN 9786613622273

Edizione [1st ed.]

Descrizione fisica 1 online resource (210 p.)

Altri autori (Persone) TardifMichael

Disciplina 692

Soggetti Building information modeling

Buildings - Computer-aided design

Lingua di pubblicazione Inglese

Formato Materiale a stampa

Livello bibliografico Note generali

Description based upon print version of record.

Monografia

Nota di bibliografia

Includes bibliographical references and index.

Nota di contenuto

Building Information Modeling: A Strategic Implementation Guide for Architects, Engineers, Constructors, and Real Estate Asset Managers; Contents; Foreword; Introduction; Chapter 1: Building Industry Challenges and Opportunities; Global Trends in Supply and Demand; Benchmarking Construction Productivity; Construction Productivity Metrics; Benchmarking Building Performance; Converting Inefficiency and Waste into Profit; Benchmarking Waste; Identifying Business Opportunities; Emerging Business Strategies; Choosing the Right Tools, Deploying the Right Tool Suites; The BIM Value Proposition Process EngineeringThinking Like an Owner; Building Performance Metrics; New Metrics for Real Property Valuation; Chapter 2: BIM Implementation Strategies: Leaving the CAD Era Behind: A Systems Approach to BIM Implementation; Avoiding Ideological Pitfalls; Aligning a BIM Implementation Strategy with Technology Trends; Assessing Fundamental Risks; Fostering a Culture of Information Stewardship; Managing Culture Change; Using Technology to Build Trust and Mitigate Risk; Maintaining Data Exchange Capabilities; Assessing Team Capabilities: Managing Expectations Measuring Progress toward Strategic GoalsToward a New Business

Paradigm; Chapter 3: Business Process Reform; Managing Innovation Risk: The Imperative of Change: Innovation Management Strategies: The ""I"" in BIM; Business Reform Strategies; Industry-wide Reform Efforts; Industry Standards and Innovation; The Industry Standards Landscape; Aligning Business Strategies with Industry Standards; Integrating Information Gathering into the Business Process: Leadership and Vision; Engaging Business Partners; Business Process Modeling; Business Process Modeling Case Study; Managing Change Populating the Building Information ModelChapter 4: BIM-Based Enterprise Workflow; BIM Implementation Fundamentals; Sidebar: Integrating Data Collection with Business Processes; Business Operations and BIM: Marketing/Business Development: Human Resources; Finance; Information Technology; Operations; Workflow Visualization; Chapter 5: The Building Life Cycle; Life Cycle Views of Building Information; The Feasibility, Planning, and Development View; The Design and Construction View; The Operations and Maintenance View; The Ownership and Asset Management View Chapter 6: Building Information Exchange Challenges Sidebar: Data. Information, Knowledge, and Wisdom; Information Management; Sidebar: Case Study: Information Management; Information Provenance; Information Maturity; Sidebar: The Wayback Machine: Archiving the Web; Information Content Decay; Information Electronic Degradation; Information Integrity and Continuity; Information Transparency, Accessibility, and Security: Information Flow: The Life Cycle of Information: Stakeholder Views: Interoperability: Chapter 7: Building Information Exchange Requirements; The Big Picture

Sommario/riassunto

The optimal approach to design, build, operate, and maintain buildings With this strategic guide to building information modeling (BIM), you'll learn how to implement this new technology as part of a comprehensive systems approach to the design, construction, management, operation, maintenance, and use of buildings. The authors, among the leading experts and pioneers in BIM, show you how BIM supports more streamlined, integrated, and efficient business processes throughout the life cycle of buildings, from their initial

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conception through their eventual retirement or reuse. The resu