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Building Information Modeling: Framework for Structural Design

Nawari O. Nawari, Michael Kuenstle

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BIM for Structural Engineering and Architecture

Building Information Modeling: Framework for Structural Design outlines one of the most promising new developments in architecture, engineering, and construction (AEC). Building information modeling (BIM) is an information management and analysis technology that is changing the role of computation in the architectural and engineering industries. The innovative process constructs a database assembling all of the objects needed to build a specific structure. Instead of using a computer to produce a series of drawings that together describe the building, BIM creates a single illustration representing the building as a whole. This book highlights the BIM technology and explains how it is redefining the structural analysis and design of building structures.

BIM as a Framework Enabler

This book introduces a new framework?the structure and architecture synergy framework (SAS framework)?that helps develop and enhance the understanding of the fundamental principles of architectural analysis using BIM tools. Based upon three main components: the structural melody, structural poetry, and structural analysis, along with the BIM tools as the frame enabler, this new framework allows users to explore structural design as an art while also factoring in the principles of engineering. The framework stresses the influence structure can play in form generation and in defining spatial order and composition. By highlighting the interplay between architecture and structure, the book emphasizes the conceptual behaviors of structural systems and their aesthetic implications and enables readers to thoroughly understand the art and science of whole structural system concepts.

- Presents the use of BIM technology as part of a design process or framework that can lead to a more comprehensive, intelligent, and integrated building design
- Places special emphasis on the application of BIM technology for exploring the intimate relationship between structural engineering and architectural design
- Includes a discussion of current and emerging trends in structural engineering practice and the role of the structural engineer in building design using new BIM technologies

Building Information Modeling: Framework for Structural Design provides a thorough understanding of architectural structures and introduces a new framework that revolutionizes the way building structures are designed and constructed.

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