BIM Design: Realising the Creative Potential of Building Information Modelling

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Building Information Modelling (BIM) is revolutionising building design and construction. For architects, BIM has the potential to optimise their creativity while reducing risk in the design and construction process, thus giving them a more significant role in the building process.

In BIM Design: Realising the Creative Potential of Building Information Modelling, author Richard Garber, an Associate Professor at the College of Architecture and Design of the New Jersey Institute of Technology and partner in the New York City-based firm GRO Architects, demonstrates how innovative firms are using BIM technologies to shift design away from the utilitarian problems of construction, engaging them in a new future in the built environment.

Highlighting how day-to-day design operations are shaped by the increasingly generative and collaborative aspects of these new tools, BIM Design also looks at how building information modelling strategies are described as operations that can augment design potential not simply make them more efficient. As a result, the book focuses on the specific creative uses of information modelling at the operational level, including the creative development of parametric geometries and generative design, as well as the evaluation of environmental performance and the simulation and scheduling of construction/fabrication operations.

Throughout, Garber uses projects to illustrate the creative application of BIM at a variety of scales, showcasing work by firms executing projects all over the world including: SHoP Architects and Construction (New York), Morphosis (Los Angeles), Populous (London), GRO Architects (New York), Resier + Umemoto (New York), Gensler (Shanghai) and UN Studio (Amsterdam).

By exploring BIM’s pragmatic efficiencies, such as the conflict checking of building systems and the creation of bills of materials for costing practices, BIM Design: Realising the Creative Potential of Building Information Modelling shows how such activities can be collaborative.

BIM Design: Realising the Creative Potential of Building Information Modelling is available wherever books and e-books are sold, priced £29.99.

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Review copies and jacket images are available on request

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