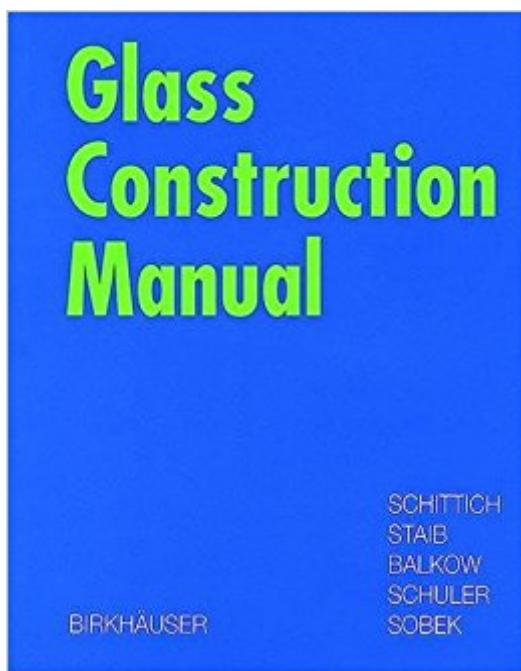


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Glass Construction Manual (Construction Manuals (englisch))



Synopsis

In compact and appealing form, the completely revised "Glass Construction Manual" presents the current state of the art on planning and building with glass, from the history through the technical foundations all the way to the most innovative applications.

Book Information

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Customer Reviews

Visually rich A-to-Z...with the clarity, lightness, and elegance of glass, the book takes on a complex topic. -- Architectural Record, April 2000

Glass Construction Manual Glass offers a wide variety of possible applications for the realisation of even the most ambitious designs in architecture, and in the past two decades it has experienced an unparalleled burst of innovation. For planners, this means working constantly with this high-performance material. In compact and appealing form, the completely revised Glass Construction Manual presents the current state of the art on planning and building with glass. This volume in the series of successful Construction Manuals includes: the historical progress in the manufacture and use of glass from ancient times to the present day the development of the use of glass in building the importance of transparency and translucency in contemporary architecture the material properties of glass the various types of glass and their potential applications the structural behaviour and strength of glass

loadbearing structures and innovations the use of glass for energy gains a systematic compilation of fixing options a section of outstanding international examples of recently completed structures which show the interaction between material, form of construction and architectural design

This is a complete compendium of engineering information for the most typical use of glass--as a window. Everything needed to analyze a building's energy budget--at least for the German climate--is presented and well explained, as is daylighting. Atria and double leaf facades are discussed at the end to summarize the principles. There is also a comprehensive section on the mechanical properties of glass: resistance to wind loads, how to attach it, etc. Only downside is the quality of the translation (I assume), which results in an occasional unusual sentence: "As no energy can be lost from the total system, the balance of the incident energy must be able to be resolved mathematically." Nothing that impairs understanding though.

This is one of the better books that I have seen on the topic of curtain wall design. It is full of very accurate and well explained technical information as well labeled details. The project section is a comprehensive study of some of the most complex curtain walls built. This section is full of detail drawings and color images of the built details. This is a MUST HAVE book for anyone working on complex wall systems, or anyone interested in the state of the art in curtain wall design.

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