



# The Structural Basis of Architecture

*By Bjorn N. Sandaker, Arne P. Eggen, Mark R. Cruvellier*

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This is a book about structures that shows students how to "see" structures as integral to architecture, and how knowledge of structures is the basis for understanding both the mechanical and conceptual aspects inherent to the art of building.

Analyzing the structural principles behind many of the best known works of architecture from past and present alike, this book places the subject within a contemporary context.

The subject matter is approached in a qualitative and discursive manner, and is illustrated by many photographs of architectural projects and structural behaviour diagrams. This new edition is revised and updated throughout, includes worked-out examples, and is perfect as either an introductory structures course text or as a designer's sourcebook for inspiration.

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## **Editorial Review**

### **Review**

**"The book is a welcome addition to the resources available in the field of architectural structures. It is written from the viewpoint of the building, with all its needs and functions, and allows the design of the building to interact with the structural system and materials so that each informs the other. It should appeal particularly in the teaching environment, where students can be guided into an understanding of the interconnectedness of all the aspects of architectural design."** – *Peter R. Smith, Architectural Science Review*

### **About the Author**

Bjørn N. Sandaker is a Structural Engineer and Professor of Architectural Technology at the Oslo School of Architecture and Design.

Arne P. Eggen is an Architect and Emeritus Professor at the Oslo School of Architecture and Design.

Mark R. Cruvellier is a Structural Engineer and Associate Professor in the Department of Architecture at Cornell University.

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