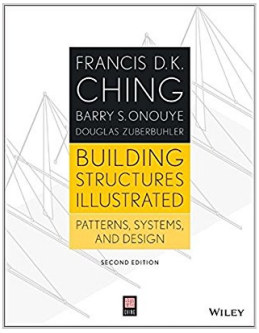

Building Structures Illustrated: Patterns, Systems, and Design

By Francis D. K. Ching

Building Structures Illustrated: Patterns, Systems, and Design By Francis D. K. Ching

A new edition of Francis D.K. Ching's illustrated guide to structural design

Structures are an essential element of the building process, yet one of the most difficult concepts for architects to grasp. While structural engineers do the detailed consulting work for a project, architects should have enough knowledge of structural theory and analysis to design a building. *Building Structures Illustrated* takes a new approach to structural design, showing how structural systems of a building—such as an integrated assembly of elements with pattern, proportions, and scale—are related to the fundamental aspects of architectural design. The book features a one-stop guide to structural design in practice, a thorough treatment of structural design as part of the entire building process, and an overview of the historical development of architectural materails and structure. Illustrated throughout with Ching's signature line drawings, this new *Second Edition* is an ideal guide to structures for designers, builders, and students.

- Updated to include new information on building code compliance, additional learning resources, and a new glossary of terms
- Offers thorough coverage of formal and spatial composition, program fit, coordination with other building systems, code compliance, and much more
- Beautifully illustrated by the renowned Francis D.K. Ching

Building Structures Illustrated, Second Edition is the ideal resource for students and professionals who want to make informed decisions on architectural design.

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Building Structures Illustrated: Patterns, Systems, and Design By Francis D. K. Ching Bibliography

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Editorial Review

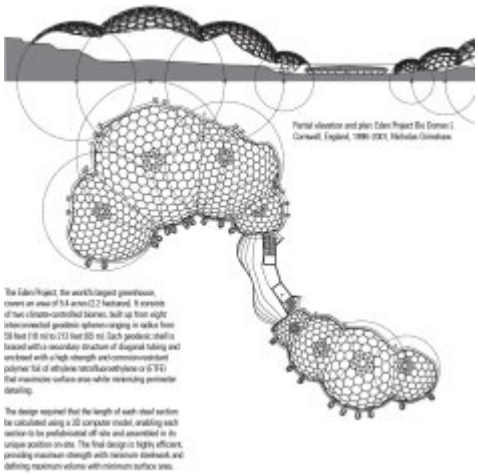
Amazon.com Review

From co-author Douglas Zuberbuhler

Why another book on structures?

It is true that gravity hasn't changed, winds still blow, and the earth still shakes. Further, there are a number of excellent texts currently available covering statics and strength of materials as well as structural design, particularly from the point of view of engineering analysis. However, the authors of *Building Structures Illustrated*, two of which taught structures courses and all of which taught design studio, continually experienced architecture students having difficulty applying their knowledge of structures to their own design projects. *Building Structures Illustrated* is intended to help bridge this gap by organizing and illustrating structural concepts and issues as they apply to and influence building design. In this way the authors hope to facilitate the integration of structural concepts in the design process and avoid fatal structural flaws that render design concepts untenable when exposed to structural analysis.

Beyond simply facilitating structural credibility in building design, the authors hope *Building Structures Illustrated* will inspire critical thinking of how the structural system might inform or where appropriate, even drive the design concept. This is the focus of the second addition where numerous examples of contemporary architecture are included to illustrate the application of the structural concepts.



Partial elevation and plan: Eden Project Bio Dome l, Cornwall, England, 1998-2001, Nicholas Grimshaw

Click image to enlarge.

From the Back Cover

An updated new edition of the illustrated reference on structural design from bestselling author Francis D.K. Ching

Structures are an essential element of the building process, yet one of the most difficult concepts for architects to grasp. While structural engineers do the detailed consulting work for a project, architects should have enough knowledge of structural theory and analysis to design a building. *Building Structures Illustrated Second Edition* takes a unique approach to structural design, showing how structural systems of a building—such as an integrated assembly of elements with pattern, proportions, and scale—are related to the fundamental aspects of architectural design.

This one-stop guide to structural design in practice treats structural design as part of the entire building process and offers an overview of the historical development of architectural materials and structure. This updated new edition features:

- New information on building code compliance, additional learning resources, and a glossary of terminology
- Thorough coverage of formal and spatial composition, program fit, coordination with other building systems, and code compliance

Beautifully illustrated throughout in Francis D.K. Ching's signature style, *Building Structures Illustrated* enables students and professionals to make informed decisions in architectural design.

About the Author

Francis D.K. Ching is a registered architect and Professor Emeritus at the University of Washington in Seattle. He is the bestselling author of numerous books on architecture and design, all published by Wiley. His works have been translated into more than sixteen languages and are regarded as classics for their renowned graphic presentation.

Barry S. Onouye is a registered engineer and Senior Lecturer Emeritus at the University of Washington, where he taught courses on structural design in the College of Built Environments. He is also the author of *Statics and Strength of Materials for Architecture and Building Construction*.

Douglas Zuberbuhler is a registered architect and Senior Lecturer Emeritus at the University of Washington, where he taught architectural design and graphics. He also served as chairman of the Department of Architecture and Associate Dean of the College of Built Environments.

Users Review

From reader reviews:

Alice Smith:

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