



Shaping Structures: Statics (Simplified Design Guides)

By Waclaw Zalewski, Edward Allen

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In *Shaping Structures*, an engineer and an architect, both longtime teachers of structures at major American universities, collaborate to present an inspired synthesis of the creative and the technical, explicating both the principles of statics and their application to the fascinating task of finding good form for structures. This richly visual volume features:

- * An easily understood development of the fundamentals of statics
- * Step-by-step demonstrations, using both numerical and graphical techniques, of simple yet powerful methods for finding form and forces for arched structures, suspended structures, cable-stayed structures, and highly efficient trusses
- * 120 photographs and more than 300 crisp drawings that illustrate and explain the magnificent structural triumphs of master architects and engineers -including Gustave Eiffel's famous tower, Robert Maillart's soaring bridges, Pier Luigi Nervi's landmark Turin Exhibition Hall, and many others
- * Calculations in both SI metric and conventional units throughout the book

Requiring only the most rudimentary mathematical background yet accurate and fully functional, *Shaping Structures* provides an inviting point of entry to the study of structural design for engineering and architecture students -proving that the science of statics doesn't have to be lifeless, simplistic, or dull.

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Shaping Structures: Statics (Simplified Design Guides) By Waclaw Zalewski, Edward Allen Bibliography

- Sales Rank: #836158 in Books
- Published on: 1997-12-29
- Ingredients: Example Ingredients
- Original language: English
- Number of items: 1
- Dimensions: 8.27" h x .98" w x 11.04" l, .0 pounds
- Binding: Hardcover
- 416 pages

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Editorial Review

From the Publisher

This book uses the basic conditions of statics to show readers how to understand and create elegant, highly efficient forms for suspended and cable-stayed structures, arches, trusses, and shells. It offers a contextual understanding of the natural flow of forces and shows how to calculate the stresses of various forms using both numerical and graphical techniques. Throughout the book, the authors inspire their readers by analyzing and illustrating in detail the simple, powerful design techniques of the world's great engineers and architects. It is an innovative, highly visual book that can be used for the "statics" portion of the mandatory structures sequence in the architecture curriculum.

From the Back Cover

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WACLAW ZALEWSKI is Professor Emeritus of Structural Design at the Massachusetts Institute of Technology.

EDWARD ALLEN, architect, taught for many years at MIT and is on the faculty of the Yale University School of Architecture. His books are read and used in universities and professional offices throughout the world.

JOSEPH IANO is a practicing architect in Seattle, Washington.

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