



Sun, Wind & Light: Architectural Design Strategies, 2nd Edition

By G. Z. Brown, Mark DeKay

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Sun, Wind & Light: Architectural Design Strategies, 2nd Edition By G. Z. Brown, Mark DeKay

Architecture/Environment

How to design buildings that heat with the sun, cool with the wind, light with the sky, and move into the future using on-site renewable resources

Developed for rapid use during schematic design, this book clarifies relationships between form and energy and gives designers tools for designing sustainably. It also:

- * Applies the latest passive energy and lighting design research
- * Organizes information by architectural elements at three scales:
 - * building groups, individual buildings, and building parts
 - * Brings design strategies to life with examples and practical design tools
 - * Features:
 - * 109 analysis techniques and design strategies
 - * More than 750 illustrations, sizing graphs, and tables
 - * Both inch-pound and metric units

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Editorial Review

Review

Books about sustainability come in different shapes and sizes: some theoretical, some practical, some a pleasure to look at, some just factual. This one is an intriguing mix of all these...

--Architectural Review (UK) Adam Voelker

a comprehensive document and despite much further reading I have yet to find a strategy elsewhere not mentioned in this book. --Amazon UK

Charged to select three books for people interested in teaching themselves ... architecture, ... I would choose *Sun, Wind & Light* to teach the processes architects should use. ...an inspirational book.

--SBSE News

This book is an obvious choice as a textbook on climate-responsive design, but it should also serve as a valuable reference for anyone designing buildings with climate in mind. --Environmental Building News

Great book to study for sustainable architecture. Gives details on how to design for particular climates and regions. Filled with helpful charts and graphs to decipher for seasons and times of the day according to each climate. --Alibris

"No architect should neglect to follow the advice that it gives." (Center for Education in the Built Environment, August 2002)

From the Publisher

A text for architectural design studio courses, geared to inspire design ideas and to help students understand the energy consequence of design decisions. Concentrates on the analysis of sun, wind, and light resources of a particular site and climate. Also offers design strategies organized by building groups, buildings and building parts, and provides strategies for supplementing passive systems. Includes over 200 beautifully rendered architectural illustrations.

From the Back Cover

Architecture/Sustainability & Green Design

Design net-zero energy buildings that heat and power with the sun, cool with the wind, light with the sky.

The updated sustainable design classic * Doubled content * Focused on designing for Architecture 2030 carbon-neutral performance targets * Tools to connect related strategies

Developed for rapid use during schematic design, this book clarifies relationships between form and energy and gives designers tools for designing sustainably.

Part I-VII: 400-page printed book (free download)* Multiple aids for navigation

* A new knowledge structure for net-zero design

* 7 synergies and 9 strategy bundles

- * 6 high-performance building assessment methods
- * Condensed versions of favorite strategies and tools

Part VIII-IX: 450 Page electronic book

- * Searchable PDF documents
- * Over 100 preliminary design strategies
- * 29 design analysis techniques

Digital Extras (free download)

- * The *SWL Tools* spreadsheet for net-zero design (62 pages)
- * *Climate Calendars* data spreadsheets for U.S. climates (28 cities)
- * 700 pages of *Climatic Context* reports for U.S. climate regions

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Steve Garcia:

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Richard Kowalski:

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