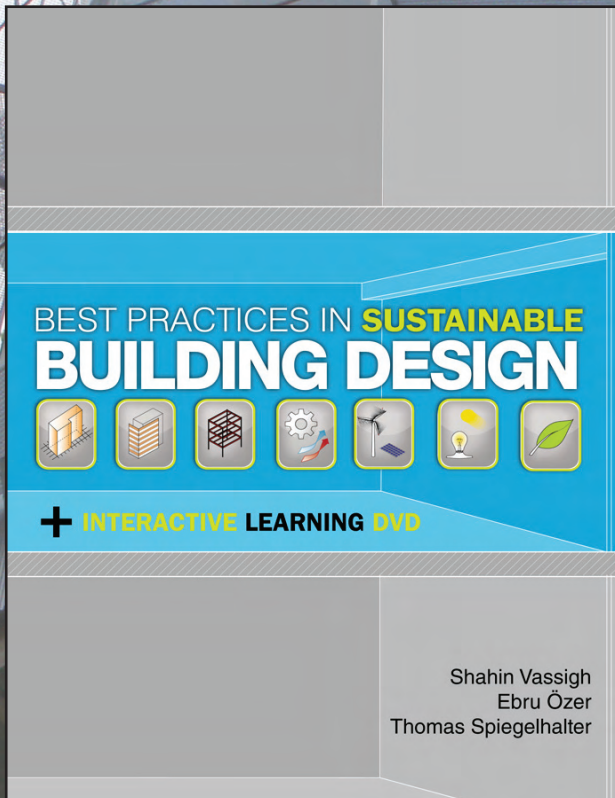


Shahin Vassigh, Ebru Özer and Thomas Spiegelhalter

BEST PRACTICES IN **SUSTAINABLE** **BUILDING DESIGN** + INTERACTIVE LEARNING DVD



INTERACTIVE LEARNING DVD



Retail Price \$89.95
SPECIAL DIRECT PRICE \$79.95
 at www.jrosspub.com



Building Form



Building Envelope



Structure



Climate Control



Renewable Energy



Lighting



Landscape



This unique book and DVD provide an interactive, step-by-step learning environment comprised of seven content areas: building form, envelopes, structures, climate control systems, renewable energy, lighting, and landscape design. Each of these content areas is subdivided into learning modules that introduce the subject matter and explore best practices for climate responsive and ecologically sustainable building design and construction.

Best Practices in Sustainable Building Design is ideally suited for architects, designers, planners, and engineers, as well as students and educators. Anyone interested and passionate about discovering ways to improve our built environment will find this book + DVD to be a valuable guide.

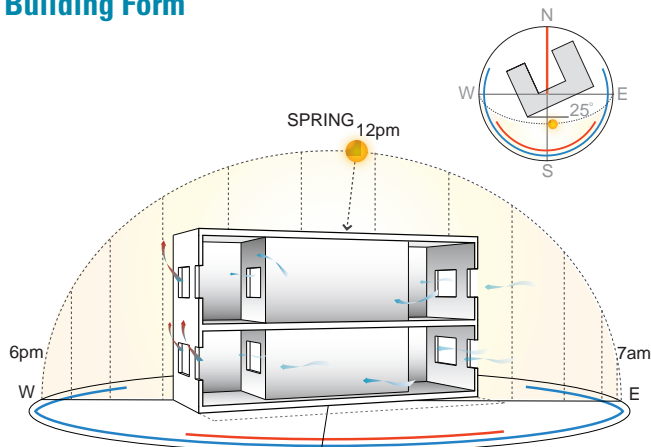
Key Features

- **Interactive format:** Takes advantage of the interactive capabilities of state-of-the-art computing technology including hypertext functionality, animations, and open information referencing
- **Highly visual:** Demonstrates building sustainability concepts using well detailed, realistic, 3-D computer generated models and interactive animations
- **Educational materials serving a variety of learning styles:** Combines a traditional textbook format with multimedia graphics and interactive animations, thereby serving both those who learn better through visual media as well as those who prefer reading a book
- **Interdisciplinary nature:** Provides a wide range of information for various disciplines engaged in building design and construction including building envelope, mechanical systems, lighting systems, landscape, and energy resources

"Best Practices in Sustainable Building Design is clearly structured into learning modules, allowing the reader to quickly grasp the various concepts of passive and active strategies influenced by building form, envelopes, structural system, technical control systems, and other elements. I congratulate the three authors on their marvelous achievement, publishing this work as both a book and an interactive DVD."

— **Steffen Lehmann**, UNESCO Chair in Sustainable Urban Development for Asia and the Pacific, and Editor-in-Chief of the *Journal of Green Building*

Building Form



4. Climate Control

Climate Control

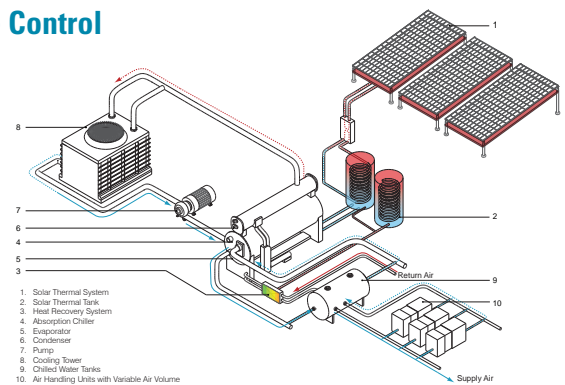


Fig. 4.3.21 Thermally Driven Absorption Chiller

ORDER ONLINE & SAVE AT WWW.JROSSPUB.COM



Building Form



Building Envelope



Structure



Climate Control



Renewable Energy



Lighting



Landscape



The interactive learning DVD engages and aids in the visualization of concepts that may otherwise be too difficult to fully convey in a traditional book format.

"This book is clearly organized and appropriately prioritizes the key issues in the design of sustainable buildings. The writing style is succinct, providing information in a minimum of text, and utilizes the graphics smoothly by providing links to the interactive software. Perhaps the real strength of the platform is the combination of book and software formats. This will be the direction of the future in architectural design and education."

—**Marc Schiler**, Professor, School of Architecture, University of Southern California

Key Features

- Informative Tutorials • Easy Navigation • Detailed Graphics • Actual Case Studies

Tutorial

LEARNING INTERFACE TUTORIAL

The [eco]Learning Interface delivers the educational content of the software. It includes lessons, case studies, specifications, analytical data and graph exhibits on various aspects of sustainable building design.

- Main Navigation
- Secondary Navigation
- Interactive Text
- Views and Animations
- Interactive Illustrations
- Material Attributes

Structure

STRUCTURE

STRUCTURAL FRAMES

WOOD FRAMES

WOOD FRAMES can be composed of light or heavy timber. Heavy timber framing uses large timbers and joints fabricated around 2-1/2 inch (2 inches to 3 inches apart) that are at least 5 inches (4 centimeters) wide (1/2 inch (12 millimeters) deep) and sections that are at least 3 x 8 inches (20 x 20 centimeters). Light wood-frame construction employs smaller and more closely spaced elements. Light wood framing is analyzed from the column frame, in which loads are from the foundation to the roof, to the study steel joist frame. Heavy wood frames are constructed with simple connections.

Lighting

LIGHTING

WATER/USING/INDOOR

FILTERING

REFLECTORS AND REFRACTORS

SUN SCREENS

SUN SCREENS

Renewable Energy

RENEWABLE ENERGY

ENERGY SOURCES AND STORAGE

ENERGY STORAGE SYSTEMS

COOL THERMAL STORAGE (CHILLER TANKS)

HEAT THERMAL STORAGE

Case Studies

LANDSCAPE

CASE STUDIES

CALIFORNIA ACADEMY OF SCIENCES

CALIFORNIA ACADEMY OF SCIENCES

SHAHIN VASSIGH is a professor and co-director of the Environmental and Structural Technology Lab (ESTL) in the Department of Architecture at Florida International University and teaches courses in structures and building technologies. She has built a nationally recognized body of research focused on improving building technology and sustainable building design education by two major federal grants for "A Comprehensive Approach to Teaching Structures" and "Building Literacy: The Integration of Building Technology and Design in Architectural Education." Both projects developed interactive learning environments using computing technology. Professor Vassigh is also the co-author of *Building Systems Integration for Enhanced Environmental Performance* (2011).

ABOUT THE AUTHORS

EBRU ÖZER is an assistant professor in the Department of Landscape Architecture at Florida International University and teaches courses in landscape architectural design, landscape technology and construction, and advance digital representation. As a professional with experience in both landscape architecture and architecture, her research includes developing a holistic approach to environmentally sustainable design that integrates current architectural design theories with landscape design theories. Her research has been supported by grants from The Andres W. Mellon Foundation and the U.S. Department of Education.

THOMAS SPIEGELHALTER is a co-director of the Environmental and Structural Technology Lab (ESTL) in the Department of Architecture at Florida International University, and teaches Sustainability Graduate Studio and Environmental Systems. Professor Spiegelhalter has developed numerous solar, zero-fossil-energy and low-energy buildings in the U.S. and Europe. Many of his completed projects have been published in international anthologies of architecture such as *Architectural Record magazine* (Design Vanguard Award 2003) and in the monograph *Adaptable Technologies—Le tecnologie adattabilinelle architecture di Thomas Spiegelhalter*. He has received over 42 honors, prizes and awards for his design work in competition and applied research.

Professors, ask about our 45-day review program!

For details visit www.jrosspub.com/professors.asp

ORDER FORM

Four Ways to Order:

1. Mail Complete this form and mail it with your Check, Credit Card Info, or Purchase Order to:



J. Ross Publishing
300 S. Pine Island Road, Suite #305
Plantation, FL 33324

2. Telephone Call us at **954-727-9333 ext. 2**

3. Fax Fax this form or your purchase order to **561-892-0700**

4. Online Visit us on the Web at **www.jrosspub.com**

Ordering Information:

US: Orders must be prepaid in US dollars or accompanied by a company purchase order. Please add appropriate shipping and handling charges for each book ordered. Florida residents add 6% sales tax.

Canada: Orders must be prepaid in US dollars or accompanied by a company purchase order. Add \$10.00 shipping and handling for the first book and \$4.00 for each additional book.

International: Orders must be prepaid in US dollars. Add \$20.00 shipping and handling for the first book and \$7.00 for each additional book ordered.

Your Satisfaction Is Guaranteed: If this book does not meet your needs, it may be returned to us in saleable condition within 20 days of receipt.

To set up a Bookstore, Association, Cataloger, or Corporate account, contact:

Stephen Buda at
Tel: 954-727-9333 ext. 5
Fax: 561-892-0700
or e-mail: salesandmarketing@jrosspub.com

Please indicate quantities next to the title(s) ordered:

_____ **BEST PRACTICES IN SUSTAINABLE BUILDING DESIGN**
Shahin Vassigh, Ebru Özer, and Thomas Spiegelhalter
Catalog No. JR0686, ISBN: 978-1-60427-068-6, 2012, 272 pages, 8 x 10
Special Direct Price \$79.95 each.

Shipping & Handling: Add \$6.95 for the first book ordered, and \$2.50 for each additional book.

Tax: Florida residents add 6% sales tax.



Scan with your smart phone to order on-line

Name _____
please print clearly

Company/Institution _____

Address _____

City _____ State/Province _____ Zip/Postal Code _____

Country _____

If you would like to receive information from us by e-mail, please provide your e-mail address below.

E-Mail Address _____

Visa MasterCard American Express Discover Check Enclosed \$ _____

_____ Exp. Date _____
Month Year

Signature and Telephone Number required on all orders

Signature _____ PO# _____

Telephone _____