



Heating, Cooling, Lighting: Sustainable Design Methods for Architects

By *Norbert Lechner*

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Norbert Lechner

One of the leading references on the design of a building's environmental controls has just gotten better. For years, Heating, Cooling, Lighting has supplied architects and students with the strategies needed for initial design decisions for building systems. The book looks at how to design the form of the building itself to take advantage of natural heating, cooling, and lighting and how to best utilize active mechanical equipment to satisfy the needs not provided by nature. This new edition has been expanded and updated to reflect the latest codes, standards, and energy-efficiency rating systems.

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Editorial Review

From the Back Cover

Praise for the Second Edition

"One of the most useful and important books on building design in years. . . . Nowhere else have we seen such clear explanations of energy flow mechanisms that occur in buildings. Take our word for it, this book is a must-have for any design firm."

—Environmental Building News

A leading guide and reference on the design of a building's environmental controls, *Heating, Cooling, Lighting, Third Edition* supplies architects and students with the strategies they need for making initial design decisions when creating energy sustainable buildings. Based on a three-tier approach—load avoidance, optimum use of natural energies, and the selection of appropriate mechanical equipment—this bestselling guide gives designers the information they need when considering a building's thermal and lighting needs in order to create aesthetic, low-energy sustainable buildings.

Reflecting the latest developments, codes, standards, and rating systems for energy efficiency, this *Third Edition* provides detailed information concerning thermal comfort, mechanical heating and cooling systems, climate, passive heating and cooling, shading, site planning, daylight and artificial lighting, and conservation.

New to this edition:

- Many new topics, such as "cool" coatings, cool towers, smart facades, green roofs, heat bridges, passive sustainability, LED lamps, and vacuum insulation
- Expanded section on the thermal envelope
- Numerous examples of recent exemplary buildings
- SI units displayed in addition to the I-P units
- More than 1,400 helpful photographs and line drawings
- A companion Web site with image bank

Well organized and clearly written, without overly technical language or mathematics, *Heating, Cooling, Lighting, Third Edition* is an essential resource for today's architects and architecture students.

About the Author

Norbert Lechner is Professor Emeritus in the College of Architecture, Design, and Construction at Auburn University and was a registered architect in the state of Alabama. His articles have appeared in *Architectural Lighting* and *Solar Today*. In addition to writing, he has lectured and held workshops in the United States, Europe, Asia, and the Middle East.

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