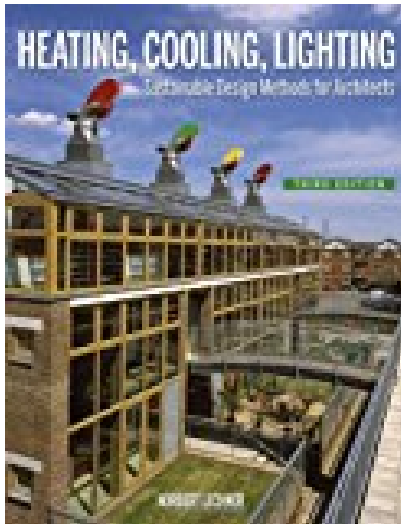


# Heating Cooling Lighting Sustainable Design Methods for Architects

---



## BOOK DETAILS

- Author : Norbert Lechner
- Pages : 720 Pages
- Publisher : Wiley
- Language : English
- ISBN : 0470048093

[↓ DOWNLOAD](#)

## **BOOK SYNOPSIS**

Sustainable environmental control through building design Heating, Cooling, and Lighting is the industry standard text on environmental control systems with the emphasis on sustainable design. By detailing the many factors that contribute to the comfort in a building, this book helps architects minimize mechanical systems and energy usage over the life of the building by siting, building design, and landscaping to maximize natural heating, cooling, and lighting. This new fourth edition includes new information on integrated design strategies and designing for the Tropics. Resources include helpful case studies, checklists, diagrams, and a companion website featuring additional cases, an image bank, and instructor materials. Designing buildings that require less energy to heat, cool, and light means allowing the natural energy of the sun and wind to reduce the burden on the mechanical and electrical systems. Basic design decisions regarding size, orientation, and form have a great impact on the sustainability, cost, and comfort of a building. Heating, Cooling, and Lighting provides detailed guidance for each phase of a design project. Readers will: Understand the concept of sustainability as applied to energy sources Review the basic principles of thermal comfort, and the critical role of climate Learn the fundamentals of solar responsive design, including active and passive solar systems as well as photovoltaics Discover how siting, architectural design, and landscaping can reduce the requirements for mechanical and electrical systems In sustainable design, mechanical, and electrical systems should be used to only accomplish what the architect could not by the design of the building itself. With this in mind, designers require a comprehensive understanding of both the properties of energy and the human factors involved in thermal comfort. Heating, Cooling, and Lighting is the complete, industry-leading resource for designers interested in sustainable environmental control.

**HEATING COOLING LIGHTING SUSTAINABLE DESIGN METHODS FOR ARCHITECTS** - Are you looking for Ebook Heating Cooling Lighting Sustainable Design Methods For Architects? You will be glad to know that right now Heating Cooling Lighting Sustainable Design Methods For Architects is available on our online library. With our online resources, you can find Applied Numerical Methods With Matlab Solution Manual 3rd Edition or just about any type of ebooks, for any type of product.

Best of all, they are entirely free to find, use and download, so there is no cost or stress at all. Heating Cooling Lighting Sustainable Design Methods For Architects may not make exciting reading, but Applied Numerical Methods With Matlab Solution Manual 3rd Edition is packed with valuable instructions, information and warnings. We also have many ebooks and user guide is also related with Heating Cooling Lighting Sustainable Design Methods For Architects and many other ebooks.

We have made it easy for you to find a PDF Ebooks without any digging. And by having access to our ebooks online or by storing it on your computer, you have convenient answers with Heating Cooling Lighting Sustainable Design Methods For Architects. To get started finding Heating Cooling Lighting Sustainable Design Methods For Architects, you are right to find our website which has a comprehensive collection of manuals listed.