



# Heating, Cooling, Lighting: Design Methods for Architects

*Norbert Lechner*

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# Heating, Cooling, Lighting: Design Methods for Architects

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## **Heating, Cooling, Lighting: Design Methods for Architects** Norbert Lechner

Using a qualitative rather than a quantitative approach, presents detailed information based on concepts, rules, guidelines, intuition, and experience for architects in the areas of heating, cooling, and lighting at the schematic design stage. The data explored supports a three-tiered approach--load avoidance, using natural energy sources, and mechanical equipment. Among the topics covered are shading, thermal envelope, passive heating and cooling, electric lighting, and HVAC. Case studies illustrate how certain buildings use techniques at all three tiers for heating, cooling, and lighting. An appendix lists some of the more appropriate computer programs available to the architect for analysis at the schematic design stage.

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