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# Climate Considerations in Building and Urban Design

*By Baruch Givoni, Bar Givoni*



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Climate Considerations in Building and Urban Design Baruch Givoni Climate Considerations in Building and Urban Design is the most comprehensive, up-to-date reference available on building and urban climatology. Written in clear, common-sense language by Baruch Givoni, the leading authority in the field, this book is a far-reaching look at a variety of climatic influences and their effects on individuals, buildings, and communities. Aimed at architecture and urban planning professionals and students alike, Climate Considerations in Building and Urban Design offers real-life solutions to climatological site planning and design issues, helping to settle disputes about site orientation, site organization, and the assembly of building materials. Climate Considerations in Building and Urban Design is organized into three parts. The first, Building Climatology, analyzes human thermal comfort and the effect of architectural and structural design features including layout, window orientation, and shading, and ventilation conditions on the indoor climate. Then, Urban Climatology explores the ways in which the climate in densely built areas can differ from surrounding regional climactic conditions, for example, in temperature, wind speed, and humidity. This part further explores the effects of urban design elements, such as urban density and building height, on a city's outdoor climate. Finally, Building and Urban Design Guidelines applies the body of available research on building climatology and the effects of physical planning on the urban and indoor climates to suggest design guidelines for different regions--for example, hot-dry and hot-humid climates. Filled with lists, tables, and graphs for easy cross-referencing, as well as hundreds of visuals, Climate Considerations in Building and Urban Design offers readers the ability to perform a quick check of a proposed scheme against authoritative criteria. Mr. Givoni's latest volume is a unique, indispensable guide to the relationship between building design, urban planning, and climate.



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### **From the Publisher**

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### **About the Author**

About the Author Baruch Givoni is Professor Emeritus of Architecture in the Graduate School of Architecture and Urban Planning at UCLA, and was associated for many years with the Technion in Haifa, and with Ben Gurion University of the Negev in Beer Sheba, both in Israel. Mr. Givoni's classic text *Man, Climate, and Architecture* (1976) is considered the most authoritative volume in the field of building climatology. His career also includes teaching assignments at nearly a dozen universities, as well as hundreds of papers and contributions to scholarly works, lectures, and symposia. Mr. Givoni has assisted the World Health Organization, the World Meteorological Organization, the Israel Ministry of Housing, and numerous governments around the world on passive and solar energy design of structures in hot climates.

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