

1. Record Nr.	UNINA9910974886203321
Autore	Emmanuel M. Rohinton <1962->
Titolo	An urban approach to climate-sensitive design : strategies for the tropics // M. Rohinton Emmanuel
Pubbl/distr/stampa	London ; ; New York, : Spon Press, 2005
ISBN	9786610231881 1-280-23188-2
Edizione	[1st ed.]
Descrizione fisica	1 online resource (185 p.)
Disciplina	720/.47/0913
Soggetti	Architecture, Tropical Sustainable development - Tropics Climatic changes - Tropics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	An Urban Approach to Climate-Sensitive Design; Copyright; Contents; Acknowledgments; Chapter 1 Introduction; 1.1 Climate-sensitive design in the tropics: an overview; 1.2 Environmental consequences of tropical urbanization; References; Chapter 2 Urbanization and climate; 2.1 Historical background; 2.2 Urban heat island: the phenomenon; 2.3 Tropical UHI studies; 2.4 Urban design variables and microclimate mitigation; References; Chapter 3 Thermal comfort in the urban tropics; 3.1 Bio-climatic needs of humans; 3.2 Thermal comfort in the tropics 3.3 Thermal comfort in the tropical urban outdoors3.4 Bio-climatic implications of urban climate changes; References; Chapter 4 Climate-conscious urban design in the tropics: basic principles; 4.1 Design of the ""commons""; 4.2 Solar radiation prevention: the ""shadow umbrella""; 4.3 Promotion of urban wind flow; References; Chapter 5 Applications: urban design strategies; 5.1 Fundamentals of environment-conscious design in the tropics; 5.2 Tools for enhancing urban environmental quality; 5.3 Design strategies for the urban tropics; 5.4 Conclusions; References Chapter 6 Climate-sensitive urban transportation for the tropics6.1 Urban form and transport; 6.2 Character of cities and their transport; 6.3 Transport ills of contemporary cities; 6.4 Transportation alternatives for environment-conscious urban development; 6.5 Design

**Sommario/riassunto**

The need to respond to the rapidly changing city climate is particularly urgent in the tropics where the urban transition is currently at its peak. While the need is clearly felt by the tropical urban dwellers, texts that provide an overview of the problem and indicate possible design solutions are rare. This comprehensive reference will be welcomed by student and practising architects as well as other built environment professionals engaged with the environmental effects of building in worldwide warm and humid climates.