

# Climate Responsive Design A Study Of Buildings In Moderate And Hot Humid Climates

Sustainable Houses and Living in the Hot-Humid Climates of Asia Building in Hot and Humid Regions Bioclimatic Housing Planning for Climate Change Moisture control in buildings Sun, Wind, and Light: Architectural Design Strategies Low Energy Low Carbon Architecture Handbook of Physiology: Adaptation to the environment Builder's Guide Climate Responsive Design Adaptation to the Environment Proceedings of the 4th International Conference on Indoor Air Quality and Climate Thermal Comfort of Outdoor Public Spaces in Hot Humid Climates Consumers Union Reports The Aeroplane Papers Presented in Division 1-[3] California's Many Climates Climate Considerations in Building and Urban Design A Temperature/humidity Tolerance Index for Transporting Beagle Dogs in Hot Weather Architectural Science Review Tetsu Kubota Napoleon Enteria Richard Hyde Simin Davoudi Heinz R. Trechsel Mark DeKay Khaled Al-Sallal John Field Joseph W. Lstiburek Richard Hyde Bernd Seifert Consumers Union of United States Ernest L. Felton Baruch Givoni Gerald D. Hanneman

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this book provides information on the latest research findings that are useful in the context of designing sustainable

houses and living in rapidly growing asian cities the book is composed of seven parts comprising a total of 50 chapters written by 53 authors from various countries mainly in the asian region part i introduces vernacular houses in different asian countries such as indonesia malaysia india nepal china thailand and laos parts ii and iii then explore in depth indoor adaptive thermal comfort and occupants adaptive behavior focusing especially on those in hot humid climates part iv presents detailed survey results on household energy consumption in various tropical asian cities while part v analyses the indoor thermal conditions in both traditional houses and modern houses in these countries several real world sustainable housing practices in asian cities are reviewed in the following part the final part then discusses the vulnerability of expanding asian cities to climate change and urban heat island today approximately 35 40 of global energy is consumed in asia and this percentage is expected to rise further energy consumption has increased particularly in the residential sector in line with the rapid rise of the middle class the majority of growing asian cities are located in hot and humid climate regions and as such there is an urgent need for designers to provide healthy and comfortable indoor environments that do not consume non renewable energy or resources excessively this book is essential reading for anyone with an interest in sustainable house design in the growing cities of asia

this book presents an in depth analysis covering climatic and weather conditions house and building development history construction methods and technologies and environmental conditions it provides relevant house and building information and highlights recent advances in hot and humid regions as well as developments in other regions that are relevant to hot and humid climates the countries in hot and humid regions which include the tropical countries the middle eastern countries around the mediterranean and many countries of central asia and africa are home to some of the most challenging conditions in the world in terms of house and building design and construction and in terms of maintaining indoor thermal comfort and air quality in an energy efficient way the book s respective chapters prepared by expert contributors cover essential concepts designs and construction methodologies for houses and commercial buildings as such the book offers a valuable resource for undergraduate and graduate students in architecture and engineering house and building designers and building sciences researchers building contractors manufacturers and distributors of building equipment and devices and government policymakers and legislators will also benefit from the information provided in this book

first published in 2007 routledge is an imprint of taylor francis an informa company

this resource provides authoritative guidance for spatial planners on how to meet the economic social and

environmental challenges that climate change raises for urban and regional development it brings together some of the recent research and scholarly works on the role of spatial planning in combating climate change

an updated guide to designing buildings that heat with the sun cool with the wind and light with the sky this fully updated third edition covers principles of designing buildings that use the sun for heating wind for cooling and daylight for natural lighting using hundreds of illustrations this book offers practical strategies that give the designer the tools they need to make energy efficient buildings hundreds of illustrations and practical strategies give the designer the tools they need to make energy efficient buildings organized to quickly guide the designer in making buildings respond to the sun wind and light

providing a complete and in depth overview of the available knowledge in the area of low energy and low carbon architecture the scope of this edited book includes several important topics ranging from chapters giving a broad view of the progressing models in ecologically responsible environments to other chapters focussing on recent advances in design strategies and building technologies in low energy heating cooling daylighting materials and building sustainable systems the book will give the readers insight to the future of low energy and low carbon architecture in the beyond green era and discussed in the broader context of the progressing theories of regenerative design

climate responsive design provides a unique source for students and practising architects requiring guidance on climatic design covering theory and application it provides examples of innovative and best practice in responsive architecture through case studies the book also covers the broader topic of technology as a generator in design which will be of interest to all those involved in design and building the book focuses on tropical climate but some of the theory can be applied to other climates the difference in application is clearly delineated

detailed analysis of weather conditions for every region of the state

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 book jacket title summary field provided by blackwell north america inc all rights reserved

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