

Manual of Tropical Housing and building

Climatic Design

Koenigsberger, Ingersoll, Mayhew, Szokolay



Manual Of Tropical Housing And Building Climatic Design

S. V. Szokolay



Manual Of Tropical Housing And Building Climatic Design:

Manual Of Tropical Housing & Building Otto H Koenigsberger, O. H., Ingersoll, T. G., Mayhew, 1975 Designed As A Textbook For Students Of Architecture Housing Environmental Design And Climate Control In Tropical Countries This Book Deals With The Theory Of Climatic Design And Shows How Practical Solutions Are Derived From Theoretical Understanding

Manual of Tropical Housing and Building Otto H. Koenigsberger, 1974 **Manual of Tropical Housing and Building** Otto H. Koenigsberger, Thomas G. Ingersoll, 1980 **Manual of Tropical Housing and Building** O.H. Koenigsberger, 2010

Sustainable Building - Design Manual, 2004-01-01 The second volume targets practitioners and focuses on the process of green architecture by combining concepts and technologies with best practices for each integral design component *Climatic Design, Manual of Tropical Housing and Building, Part* O.H. Koenigsberger, 1980

National Design Handbook Prototype on Passive Solar Heating and Natural Cooling of Buildings, 1990

Design Principles of Atrium Buildings for the Tropics Mohd. Hamdan Ahmad, Mohamad Tajuddin Haji Mohamad Rasdi, 2000 **A Genealogy of Tropical Architecture** Jiat-Hwee Chang, 2016-04-28 A Genealogy of Tropical Architecture traces the origins of tropical architecture to nineteenth century British colonial architectural knowledge and practices It uncovers how systematic knowledge and practices on building and environmental technologies in the tropics were linked to military technologies medical theories and sanitary practices and were manifested in colonial building types such as military barracks hospitals and housing It also explores the various ways these colonial knowledge and practices shaped post war techno scientific research and education in climatic design and modern tropical architecture Drawing on the interdisciplinary scholarships on postcolonial studies science studies and environmental history Jiat Hwee Chang argues that tropical architecture was inextricably entangled with the socio cultural constructions of tropical nature and the politics of colonial governance and postcolonial development in the British colonial and post colonial networks By bringing to light new historical materials through formidable research and tracing the history of tropical architecture beyond what is widely considered today as its founding moment in the mid twentieth century this important and original book revises our understanding of colonial built environment It also provides a new historical framework that significantly bears upon contemporary concerns with climatic design and sustainable architecture This book is an essential resource for understanding tropical architecture and its various contemporary manifestations Its in depth discussion and path breaking insights will be invaluable to specialists academics students and practitioners *Global Warming and the Built Environment* D.K. Prasad, 2005-06-27 new in paperback and at a student price first book to discuss the impact of the built environment on global warming contributions from foremost scientists and engineers on the subject offer a wide perspective **Stay Cool** Holger Koch-Nielsen, 2013-06-17 In hot dry or warm humid climates more than half of the urban peak load of energy consumption is used to satisfy air conditioning demands alone Since the urbanization rate in developing countries is extreme

the pressure placed on energy resources to satisfy the future requirements of the built environment will be great unless new more cost effective measures can be introduced Stay Cool is an essential guide for planning and design using active design principles and passive means to satisfy human comfort requirements specifically in these climate zones based on examples of traditional and modern constructions The book demonstrates how a design strategy for urban environments and individual buildings incorporating naturally occurring resources and specific energy efficient technologies can create a location form and structure that promote significant energy savings Such strategies can be applied to low cost housing or indeed to any other buildings in order to improve comfort with passive means and low energy budgets Following an outline of climatic issues characteristics and thermal comfort requirements the book details the available techniques and technologies that can be used to shape both built and external environments the building envelope material selections and natural ventilation and cooling methods to satisfy both human requirements and the need for energy efficiency It also includes an active design checklist and summary of available design checking tools a rehabilitation guide for existing urban building and external environments and solar charts Planners architects engineers technicians and building designers will find Stay Cool an inspirational guide and an essential reference when working with planning and design of the built environment in hot dry and warm humid climate zones It will also be of benefit to students academics and researchers with an interest in sustainable and energy efficient architecture techniques and practice

Low Carbon Cities Steffen Lehmann, 2014-09-15 Low Carbon Cities is a book for practitioners students and scholars in architecture urban planning and design It features essays on ecologically sustainable cities by leading exponents of urban sustainability case studies of the new directions low carbon cities might take and investigations of how we can mitigate urban heat stress in our cities microclimates The book explores the underlying dimensions of how existing cities can be transformed into low carbon urban systems and describes the design of low carbon cities in theory and practice It considers the connections between low carbon cities and sustainable design social and individual values public space housing affordability public transport and urban microclimates Given the rapid urbanisation underway globally and the need for all our cities to operate more sustainably we need to think about how spatial planning and design can help transform urban systems to create low carbon cities and this book provides key insights

Design Primer for Hot Climates Allan Konya, 2013-10-22 Design Primer for Hot Climates offers a discussion of architecture and planning for hot climates The hot tropical and sub tropical regions contain most of the world s population and it is here that the majority of new buildings will be built For this reason this book concentrates on these regions but serves only as a broad outline of the climatic environmental and technological conditions The book begins with a discussion of climatic elements climatic zones and comfort This is followed by separate chapters on climatic design regional hazards e g condensation lightning storms earthquakes etc that must be considered during the design stage and factors such as site accessibility materials selection water and labor supply and building regulations and standards This book is meant not only for designers

from temperate climatic areas but also for those who live in these regions in the hope that they will be stimulated to re-examine conditions which may have become over familiar to them

Introduction to Architectural Science Steven Szokolay, 2014-04-11 Now in its third edition this book provides the ideal and only reference to the physical basis of architectural design Fully updated and expanded throughout the book provides the data required for architects to design buildings that will maintain the users comfort in a variety of conditions with minimal reliance on energy intensive methods like air conditioning This is not a how to book but answers the question why It equips the reader with the tools to realize the full potential of the good intentions of sustainable bioclimatic design All sections have been revised and updated for this third edition including all the most relevant developments affecting heat light and sound controls The book responds to the need of understanding beyond rules of thumb

Introduction to Architectural Science S. V. Szokolay, 2008 A clear and thorough guide to the building blocks of sustainable design

Architecture and Energy William Braham, Daniel Willis, 2013-07-18 Does energy consumption influence architectural style Should more energy efficient buildings look different Can that look be used to explain or enhance their performance Architecture and Energy provides architects and architectural theorists with more durable arguments for environmental design decisions arguments addressing three different scales or aspects of contemporary construction By drawing together essays from the leading experts in the field this book engages with crucial issues in sustainable design such as The larger role of energy in forming the cultural and economic systems in which architecture is conceived constructed and evaluated The different measures and meanings of energy performance and how those measures are realized in buildings The specific ways in which energy use translates into the visible aspects of architectural style Drawing on research from the UK US Europe and Asia the book outlines the problems surrounding energy and architecture and provides the reader with a considered overview of this important topic

Third World Modernism Duanfang Lu, 2010-11-02 This set of essays challenge interpretations of the development of modernist architecture in Third World countries during the Cold War The topics look at modernism s part in the transnational development of building technologies and the construction of national and cultural identity

Placemaking Derek Thomas, 2016-04-14 End users provide the most valuable perspective and insights into how public social space should function Much of the failure of urban settings can be related to over structured urban environments which deterministically prescribe usage constraining instead of enabling socio spatial performance Planning decisions by specialists should be made with the participation of the end user to minimise uncertainty as far as possible creating enabling environments Placemaking An Urban Design Methodology presents a methodology that evaluates the preferences of urban dwellers and synthesises these with the planning specialist s expertise better representing all views Author Derek Thomas integrates the Sondheim Methodology with means to understanding cultural clues to create a matrix methodology that links planning primers with planning actions A unique new tool for community planners this book emphasises the importance of the community while taking into account the expertise

of the planner in creating public spaces *Understanding Built Environment* Fumihiko Seta, Arindam Biswas, Ajay Khare, Joy Sen, 2016-12-26 This book is a comprehensive document visualizing the future of built environment from a multidisciplinary dimension with special emphasis on the Indian scenario The multidisciplinary focus would be helpful for the readers to cross refer and understand others perspectives The text also includes case studies substantiating theoretical research This method of composition helps the book to maintain rational balance among theory research and its contextual application The book comprises selected papers from the National Conference on Sustainable Built Environment The chapters provide varied viewpoints on the core issues of urbanization and planning This compilation would be of interest to students researchers professionals and policy makers Wholesale Markets J. D. Tracey-White, 1991-01-01 Wholesale marketing systems for fruit vegetables and other fresh foodstuffs such as livestock and fish are often inadequate They neither maximize benefits to producers nor to consumers This manual has been compiled to provide a systematic methodology based on the sequence of steps normally adopted in the development process The manual should be of practical value both to senior professionals and to technicians in undertaking marketing and engineering surveys in the preparation of feasibility studies and master plans and in formulating proposals for the provision of physical facilities

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