

Design Primer For Hot Climates Allan Konya

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BURNS SAMIR

Solar Energy Thermal Technology Springer Nature

This revised, updated and expanded colour edition of a book first published in 2011 under the title 'Design Primer for Hot Climates, has an additional 72 pages and includes 14 relevant projects from around the world. This highly practical book has been written to encourage design solutions that are in harmony with local climate and stresses the need to design for climate change. The initial chapters explain the fundamentals of climate & comfort. Subsequent sections set out environmental design techniques: methods of dealing with hazards such as earthquakes, lightning and termites; and guidance on the use of locally available materials & technology. The emphasis throughout is on illustrated and tabulated practical advice, with many drawn examples of building form & construction, and lists of suitable plant species. *Architectural Design for Tropical Regions* Earthscan
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.

Harnessing Solar Heat John Wiley & Sons

This book presents the proceedings of the 1st International Conference on Water Energy Food and Sustainability - ICOWEFS 2021, a major forum to foster innovation and exchange knowledge in the water-energy-food nexus, embracing the Sustainable Development Goals (SDGs) of the United Nations, bringing together leading academics, researchers and industrial experts. It contains the work of authors from 33 countries. *Architecture & Sustainable Development (vol.2)* Yale University Press

Thermal comfort and indoor air quality (IAQ) issues have gained significant interest in the scientific and technical community involved in building performance analysis and other related subjects. In terms of thermal comfort, the achievement and maintenance of a thermally acceptable indoor environment is affected by energy costs, and energy poverty is a widespread problem globally. There is a call for energy-efficient architecture for a developed and sustainable world. However, with the use of renewable energy that increased considerably in recent years, new technical challenges arose for the energy sector. Consumers are key players in this context, as flexibility in demand is crucial to cope with the intermittent nature of most renewable energy sources. Active demand-side participation is particularly important to ensure the efficient use of locally and globally available energy. Sustainability, human comfort, and healthy living environments have become top priorities. Advancements in Sustainable Architecture and Energy Efficiency explores how housing is a key health factor for individuals and looks at factors such as air quality, ventilation, hygrothermal comfort, lighting, physical environment, building efficiency, and other areas as

important pieces in healthy architecture. It discusses how the poor application of these parameters can directly affect human health and how sustainable architecture provides a solution. Beyond just labeling the important facets of architecture for healthy living, this book will look at different perspectives of energy consumption and demand to ensure sustainable energy, increased energy efficiency, improved energy policies, and reasonable energy costs for homes. This book is ideal for architects, designers, engineers, energy engineers, environmental scientists, practitioners, researchers, academicians, and students interested in architecture that is both conducive to healthy living and energy efficiency.

Resilient Design, Policy, and Regulation Routledge

Presents seven strategies for energy efficient architectural design in Hawaii -- orientation and building form, solar control, daylighting, natural ventilation, landscaping, building systems and material selection and equipment efficiency. Provides architects with practical design guidelines to serve as a basis for decision making during the conceptual and schematic stages of a project. Drawings, graphs and photos.

A sensory archaeology of early Iraq Springer Nature

This book deals with the concerns of everyone involved with the use of energy in buildings. It is written principle for those with a direct professional interest in the energy performance of buildings.

Proceedings of the Second International PLEA Conference, Crete, Greece, 28 June-1 July 1983 Routledge

Eco-Resorts is a design guide for low impact, environmentally friendly tourist resorts in the tropics. The book is the first to offer architects practical, detailed guidance in developing resort buildings that work with a tropical climate and meet the needs and expectations of the client and building inhabitants. The book includes both architectural design and material solutions, supported by theoretical principles, to present a sustainable approach to resort design. It demonstrates that tropical resort buildings do not necessarily require large energy input, in compliance with green building standards. Case studies show how principles of sustainable design have been successfully applied in tropical environments. written by an industry insider with practical design experience, knowledge and expertise demonstrates design practices related to site planning and layout, and re-assesses best practices for a tropical environment, allowing architects to apply design principles to their own projects includes international case studies from several countries to illustrate best practice from a variety of tropical climate destinations around the world.

Planning the Administrative Library Design Primer for Hot Climates

This essential reference guide to strategies and solutions for urban planning in hot arid environments reflects the journey toward many cities, towns and villages in Iran, which are documented and presented in the form of case studies and comparative analysis. It is the outcome of extensive research on the influence of historical, cultural and climatic factors on urban spatial forms and rural complexes in Iran's Hot Arid Zone. The environment of the Hot Arid Zone offers valuable insights into how to overcome historical difficulties, how to endure harsh climatic conditions, how to be innovative and creative in responding to problems in new ways, and how to utilize natural energy sources. Considerable attention is given to the recognition of values, current problems and the renewal of traditional fabrics, urban blocks and traditional buildings. Important aspects in both academic education and in the urban design profession include traditional urban structures and traditional approaches to using natural energy as a creative process that is continuously changing and renews itself over time - a dynamic characteristic from which we can glean many lessons for the future. This book is based on a book previously published by the author in Persian. This version is an extensively revised version.

Heating, Cooling, Lighting IGI Global

Significantly updated in reference to the latest construction standards and new building types Sustainable design integrated into chapters throughout Over half of the entire book has now been updated since 2015 Over 100,000 copies sold to successive generations of architects and designers This book belongs in every design office. The Metric Handbook is the major handbook of planning and design data for architects and architecture students. Covering basic design data for all the major building types it is the ideal starting point for any project. For each building type, the book gives the basic design requirements and all the principal dimensional data, and succinct guidance on how to use the information and what regulations the designer needs to

be aware of. As well as buildings, the Metric Handbook deals with broader aspects of design such as materials, acoustics and lighting, and general design data on human dimensions and space requirements. The Metric Handbook is the unique reference for solving everyday planning problems.

Sunlight and Shade in the First Cities Routledge

Architectural Design for Tropical Regions is a complete guide to designing public and private buildings for tropical regions that are healthy, comfortable, and exist in harmony with both the natural environment and local traditions. In addition to proven design strategies, it brings together a wealth of detailed information on all of the technical and nontechnical issues that must be taken into consideration when designing for tropical environments. *Strategies for Sustainable Development* Getty Publications
Sustainable environmental control through building design Heating, Cooling, and Lighting is the industry standard text on environmental control systems with the emphasis on sustainable design. By detailing the many factors that contribute to the comfort in a building, this book helps architects minimize mechanical systems and energy usage over the life of the building by siting, building design, and landscaping to maximize natural heating, cooling, and lighting. This new fourth edition includes new information on integrated design strategies and designing for the Tropics. Resources include helpful case studies, checklists, diagrams, and a companion website featuring additional cases, an image bank, and instructor materials. Designing buildings that require less energy to heat, cool, and light means allowing the natural energy of the sun and wind to reduce the burden on the mechanical and electrical systems. Basic design decisions regarding size, orientation, and form have a great impact on the sustainability, cost, and comfort of a building. Heating, Cooling, and Lighting provides detailed guidance for each phase of a design project. Readers will: Understand the concept of sustainability as applied to energy sources Review the basic principles of thermal comfort, and the critical role of climate Learn the fundamentals of solar responsive design, including active and passive solar systems as well as photovoltaics Discover how siting, architectural design, and landscaping can reduce the requirements for mechanical and electrical systems In sustainable design, mechanical, and electrical systems should be used to only accomplish what the architect could not by the design of the building itself. With this in mind, designers require a comprehensive understanding of both the properties of energy and the human factors involved in thermal comfort. Heating, Cooling, and Lighting is the complete, industry-leading resource for designers interested in sustainable environmental control.

27th International Conference on Passive and Low Energy Architecture DIANE Publishing

This book of Proceedings presents the latest thinking and research in the rapidly evolving world of architecture and sustainable development through 255 selected papers by authors coming from over 60 countries. Routledge

Passive and Low Energy Architecture contains the proceedings of the Second International PLEA Conference held in Crete, Greece, on June 28 to July 1, 1983. The book is organized into four parts as the topics of the conference. The first part brings together papers dealing with case studies of individual buildings or groups of buildings, completed or to be built, and of community planning. The case studies cover examples from 13 countries in Europe, North and Latin America, North Africa, the Middle East, and Asia. The second part contains papers on experimental work and technical developments with passive and low energy systems and components. The third section focuses on the ill-defined but crucial to designers, area of design aids. The fourth section centers on implementation and management of these energy systems, including topics of international programs, education, and training of design professionals. The book will be useful to energy conscious designers, architects, engineers, and planners in this field of interest.

Trends Nichols Publishing Company

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.

Proceedings of the 1st International Conference on Water Energy Food and Sustainability (ICoWEFS 2021) Presses univ. de Louvain

This book is for the well-meaning idealists – city planners, urban designers, municipalities, and developers – who are frustrated working within the messy political environments of local democracies. It provides practical tools for crafting form-based rules that can facilitate effective communication and consensus building that are essential in today's many regulatory cultures. It reviews some of the recent form-based codes and focuses on a lot-types approach to coding. It applies this approach to designing for the climate; it demonstrates that this approach can be used in deciphering the climatic responses of vernacular archetypes that have been evolved through generations, and then coding them via simple coding tools. This book's purpose is twofold: (a) to provide a theoretical framework that clarifies why working within dynamic legal systems in local democracies is a necessity today for practitioners of urban planning and design, and how crafting dynamic rules may facilitate effective communication which is crucial within these cultures; and (b) to provide simple tools for crafting dynamic rules in form-based codes that can not only facilitate form-based consensus, but also address issues of sustainability and response to the climatic properties.

The Architects' Journal Springer Science & Business Media
Solar Energy Index is an index of resources dealing with solar energy, including archival materials from the International Solar Energy Society collection; references to articles in major solar journals; patents and pamphlets; National Technical Information Service reports; unbound conference proceedings; and other assorted reports. Both theoretical and "how-to-do-it" publications are well represented. This book places particular emphasis on terrestrial solar thermal and photovoltaic applications of solar energy. Subjects are classified according to physics, terrestrial wind, collectors, space heating and cooling, economics, materials, distillation, thermal-electric power systems, photoelectricity, solar furnaces, cooking, biological applications, water heaters, photochemistry, energy storage, mechanical

devices, evaporation, sea power, space flight applications, and industrial applications. Topics covered range from wind energy and bioconversion to ocean thermal energy conversion, heliohydroelectric power plants, solar cells, turbine generation systems, thermionic converters, batteries and fuel cells, and pumps and engines. This monograph will be of interest to government officials and policymakers concerned with solar energy.

Planning and Design Data Elsevier

Conventional air conditioning is not a sustainable solution to the challenge of a hot or humid climate. The climate problem is compounded in so-called Urban Heat Islands, urban areas where the air can be 3–5°C hotter than its surrounding areas and where pollution levels are consequently raised. Including a colour section with thermal images and maps, this book explores the complex relationships between climate, buildings and plants, especially in urban heat islands. These relationships bear very critically on a range of environmental issues and point to some corresponding solutions. One chapter highlights some of the extensive research work carried out in Singapore, especially investigating the thermal benefits of greenery in buildings in the urban setting. Though several books have been written on urban heat islands, this work uniquely examines the linkages between climate, buildings and plants. It forms a reference for researchers and professionals such as architects, architectural science, landscape architects, building services engineers, urban planners and urban climatologists. It may also be useful for final year undergraduates or graduate students in these disciplines.

Urban Structure in Hot Arid Environments Springer

Climate change is changing the context of spatial planning and shaping its priorities. It has strengthened its environmental dimension and has become a new rationale for coordinating actions and integrating different policy priorities. This book sets out the economic, social and environmental challenges that climate change raises for urban and regional planners and explores current and potential responses. These are set within the context of recent research and scholarly works on the role of spatial planning in combating climate change. Addressing both mitigation measures for reducing greenhouse gas emissions and adaptation to the effects of climate change, the book provides an overview of emerging practice, with analysis of the drivers of policy change and practical implementation of measures. It scopes planning issues and opportunities at different spatial

scales, drawing on both the UK and international experiences and highlighting the need to link global and local responses to shared risks and opportunities.

Proceedings of the Third International PLEA Conference, Mexico City, Mexico, 6-11 August 1984 Routledge

The emergence of urbanism in Iraq occurred under the distinctive climatic conditions of the Mesopotamian plain; rainy winters and extremely hot summers profoundly affected the formation and development of these early cities. Sunlight and Shade in the First Cities explores the relationship between society, culture and lived experience through the way in which sunlight was manipulated in the urban built environment. Light is approached as both a physical phenomenon, which affects comfort and the practical usability of space, and as a symbolic phenomenon rich in social and religious meaning. Through the reconstruction of ancient urban light environments, to the extent possible from the archaeological remains, the location, timing and meaning of activities within early Mesopotamian cities become accessible. Sunlight is shown to have influenced the formation and symbolism of urban architecture and shaped the sensory experience of urban life. From cities as part of the sunlit landscape, this work progresses to consider city forms as a whole and then to the examination of architectural types; residential, sacred and palatial. Architectural analysis is complemented by analysis of contemporary textual sources, along with iconographic and artefactual evidence. The cities under detailed examination are limited to those on the Mesopotamian plain, focusing on the Early Dynastic periods up to the end of the second millennium BC. This volume demonstrates the utility of light as a tool with which to analyse, not just ancient Mesopotamian settlements, but the built environment of any past society, especially where provision of, or protection from sunlight critically affects life. The active influence of sunlight is demonstrated within Mesopotamian cities at every scale of analysis.

Crafting Form-Based Codes Springer

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