

# DESIGN PRIMER FOR HOT CLIMATES

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# Design Primer For Hot Climates

**International Council for Building  
Research, Studies and Documentation.  
Congress**

## Design Primer For Hot Climates:

**Design Primer for Hot Climates** Allan Konya,1980    [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

**Living Architecture, Living Cities** Christopher Day,Julie Gwilliam,2019-11-08 It s widely accepted that our environment is in crisis Less widely recognized is that three quarters of environmental damage is due to cities the places where most of us live As this powerful new book elucidates global sustainability is therefore directly dependent on urban design In Living Architecture Living Cities Christopher Day and Julie Gwilliam move beyond the current emphasis on technological change They argue that eco technology allows us to continue broadly as before and only defers the impending disaster In reality most negative environmental impacts are due to how we live and the things we buy Such personal choices often result from dissatisfaction with our surroundings As perceived environment has a direct effect on attitudes and motivations improving this can achieve more sustainable lifestyles more effectively than drastic building change with its notorious performance gap limitations As it s in places that our inner feelings and material reality interact perceived environment is place based Ultimately however as the root cause of unsustainability is attitude real change requires moving from the current focus on buildings and technology to an emphasis on the non material Featuring over 400 high quality illustrations this is essential reading for anyone who believes in the value and power of good design Christopher Day s philosophy will continue to inspire students with an interest in sustainable architecture urban planning and related fields

[Energy Conservation in Hot Climates](#) Dieter Holm,1983    [Metric Handbook](#) Pamela Buxton,2018-02-23 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 *Mosque Architecture: A Transdisciplinary Debate* Mohammed Fekry,Mady A.A. Mohamed,Anna Visvizi,Asmaa Ibrahim,Lamiaa F. Ghamri,2023-06-28 Against a backdrop of environmental and societal concerns best captured by the UN's Sustainable Development Goals SDGs this book brings together the leading voices on Mosque architecture to make a case for its role as a purveyor of culture heritage and sustainability in the modern world The Mosque as an institution continues to serve as the epicenter of spiritual moral and cultural life in Muslim societies Recognizing that the popular understanding of Muslim culture and archetypes is at best minimal among the broader public worldwide this book has two objectives i e i to explore Masjid architecture as a carrier of culture heritage and the sustainability of Muslim communities and ii to offer a bias free introduction to the intricacies of Muslim architecture culture and heritage today The papers featured in this collection were presented at the 5th Memaryat International Conference MIC held at Effat University Jeddah The MIC's objective is to build bridges between research communities engaged with diverse aspects of science technology and innovation seen as the key levers for attaining the SDGs

**Planning for Climate Change** Simin Davoudi,Jenny Crawford,Abid Mehmood,2009 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

**The Architects' Journal** ,1986 Designing with GRC John Young,1978 **Building Design for Hot Climates** Allan Konya,Maritz Vandenberg,2018-11-05 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 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

**Heating, Cooling, Lighting** Norbert Lechner,1991-01-16 Using a qualitative rather than a quantitative approach presents detailed information based on concepts rules guidelines intuition and experience for architects in the areas of heating cooling and lighting at the schematic design stage The data explored supports a three tiered approach load avoidance using natural energy sources and mechanical equipment Among the topics covered are shading thermal envelope passive heating and cooling electric lighting and HVAC Case studies illustrate how certain buildings use techniques at all three tiers for heating cooling and lighting An appendix lists some of the more appropriate computer programs available to the architect for analysis at the schematic design stage

**Explorative Design of "curriculum Fit" of a Proposed New**

**Building Science and Technology Program** David MacGowan,1981      *Architecture Reading Lists and Course Outlines: Architectural design Architectural theory, history and criticism Human behavior Professional practice Special topics*

*Urban design theory and history* Georgia Bizios,1998      **The Cumulative Book Index** ,1912 A world list of books in the English language      *Architectural Science Review* ,2006      **Passive and Active Environmental Controls** Dean

Heerwagen,2004 Written for architects this title addresses how to design and construct buildings to satisfy occupants physical and physiological needs It serves as an introduction to the subject of environmental controls and presents information for schematic design of buildings It demonstrates how each system is integrated with other building systems

**Translating research into practice** International Council for Building Research, Studies and Documentation. Congress,1986      **International Journal for Housing Science and Its Applications** ,2002      The Publishers' Trade List Annual ,1982      *Landscape Handbook for the Tropics* William Frank Hill,1995 What is the work of the landscape designer in the topics What should an architect think about when considering the surroundings to buildings How can an individual develop a garden plot to make it more usable and pleasant Are there any guidelines that the company executive or estate manager can follow when overseeing groundstaff in the setting out of roads paths and planting on a site What are the pitfalls to landscape design in the tropics

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