

# DESIGN PRIMER FOR HOT CLIMATES

Allan Konya



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**EW Minium**



## **Design Primer For Hot Climates Allan Konya:**

**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 *Klimatische Optimierung von verdichteten Wohnhäusern in Irakisch-Kurdistan* Salahden Ghareb Kadr, 2010 [Metric Handbook](#) Pamela Buxton, 2021-11-25 The Metric Handbook is the major handbook of planning and design data for architects and architecture students with over 100 000 copies sold to successive generations of architects and designers It remains the ideal starting point for any project and belongs in every design office The seventh edition references the latest regulations and construction standards and includes new chapters on data centres and logistics facilities alongside basic design data for all the major building types 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 **Architectural Design for Tropical Regions** Cleveland Salmon, 1999-05-04 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 *Hawaiian Design* Kent Royle, Cliff Terry, 1993-07 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 [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

*Heating, Cooling, Lighting* Norbert M. Lechner, Patricia Andrasik, 2021-10-26 The essential guide to environmental control systems in building design For over 25 years Heating Cooling Lighting Sustainable Design Strategies Towards Net Zero Architecture has provided architects and design professionals the knowledge and tools required to design a sustainable built environment at the schematic design stage This Fifth Edition offers cutting edge research in the field of sustainable architecture and design and has been completely restructured based on net zero design strategies Reflecting the latest developments in codes standards and rating systems for energy efficiency Heating Cooling Lighting Sustainable Design Strategies Towards Net Zero Architecture includes three new chapters Retrofits Best practices for efficient energy optimization in existing buildings Integrated Design Strategies for synergizing passive and active design Design Tools How to utilize the best tools to benchmark a building s sustainability and net zero potential Heating Cooling Lighting Sustainable Design Strategies Towards Net Zero Architecture is a go to resource for practicing professionals and students in the fields of environmental systems technology or design environmental design systems construction technology and sustainability technology

**Hawaiian Modern** Vladimir Ossipoff, Marc Treib, 2007-01-01 At the forefront of the postwar phenomenon known as tropical modernism Vladimir Ossipoff 1907 1998 won recognition as the master of Hawaiian architecture Although he practiced at a time of rapid growth and social change in Hawaii Ossipoff criticized large scale development and advocated environmentally sensitive designs developing a distinctive form of architecture appropriate to the lush topography light and microclimates of the Hawaiian islands This book is the first to focus on Ossipoff s career presenting significant new material

on the architect and situating him within the tropical modernist movement and the cultural context of the Pacific region The authors discuss how Ossipoff synthesized Eastern and Western influences including Japanese building techniques and modern architectural principles In particular they demonstrate that he drew inspiration from the interplay of indoor and outdoor space as advocated by such architects as Frank Lloyd Wright applying these to the concerns and vernacular traditions of the tropics The result was a vibrant and glamorous architectural style captured vividly in archival images and new photography As the corporate projects and private residences that Ossipoff created for such clients as IBM Punahou School Linus Pauling Jr and Clare Boothe Luce surpass their fiftieth anniversaries critical assessment of these structures offered here by distinguished scholars in the field will illuminate Ossipoff's contribution to the universal challenge of making architecture that is delightfully particular to its place and durable over time

**Heating, Cooling, Lighting** Norbert Lechner, 2014-10-13 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

Planner's Guide to Facilities Layout and Design for the Defense Communications System Physical Plant, 1985

**Passive and Low Energy Ecotechniques** Arthur Bowen, Simos Yannas, 2013-09-03 Passive and Low Energy Ecotechniques PLEA presents the proceedings of the Third International PLEA Conference held in Mexico City Mexico on August 6-11 1984 The book includes papers on state of the art selected topics aimed at providing a basic knowledge country and regional or personal monographs to continue the exchange of national information which is an established feature of

PLEA and position papers for the topic seminars The text also presents papers on vernacular shelter and settlement case studies of new buildings and retrofits urban and community planning and design photovoltaic systems implementation cooling systems modeling and simulation guidelines and tools for design and planning     **The Architects' Journal** ,1986

**Planning the Administrative Library** David Overton,2013-03-12 No detailed description available for Planning the Administrative Library     *Designing with GRC* John Young,1978     **Energy Conservation in Hot Climates** Dieter Holm,1983     Principles of Element Design Peter Rich,Yvonne Dean,2012-10-02 The construction of buildings is learnt through experience and the inheritance of a tradition in forming buildings over several thousand years Successful construction learns from this experience which becomes embodied in principles of application Though materials and techniques change various elements have to perform the same function Principles of Element Design identifies all the relevant elements and then breaks these elements down into all their basic constituents making it possible for students to fully understand the given theory and principles behind each part As all building projects are subject to guidance through the Building Regulations and British Standards this book gives an immediate reference back to relevant information to help practitioners and contractors identify key documents needed Yvonne Dean B A Hons B A Open RIBA an architect energy consultant and materials technologist She also has 15 years experience as a lecturer travels widely and is a guest lecturer at many universities She pioneered an access course for Women into Architecture and Building which has been used as a template by others and has been instrumental in helping to change the teaching of technology for architects and designers Peter Rich AA Dipl Hons Architect started his career with 14 years experience as a qualified architectural technician He then joined the AA School of Architecture working with Bill Allen and John Bickerdike after his graduation later becoming a partner of Bickerdike Allen Rich and Partners He also taught building construction at the Bartlett School of Architecture University College London and architectural design at the Polytechnic of North London He now acts as a Consultant

**Metric Handbook** David Littlefield,2012 For each building type the book gives basic design requirements principal dimensional data and details of relevant building regulations The book also contains information on broader aspects of design applicable to all building types such as materials acoustics and lighting and data on human dimensions and space requirements Significantly updated the new edition of this work focuses on sustainable design practice to make projects competitive within a green market     **Interiors** ,1980     Building Overseas Francis Baden-Powell,1993 Covers the process of design and execution of capital projects overseas It describes the characteristics of work abroad of clients and the need for association with local professionals as well as the understanding of appropriate design and technology marketing and setting up to work overseas     *Bookseller and the Stationery Trades' Journal* ,1980

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