

DESIGN PRIMER FOR HOT CLIMATES

Allan Konya



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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

Cultural Heritage in Asia and the Pacific Margaret G. H. Mac Lean,1993-08-19 This book contains the proceedings of a five day symposium in September 1991 sponsored by the U S Information Agency organized by US ICOMOS and designed in consultation with the Getty Conservation Institute that focused on conservation issues in Asia and the Pacific with particular attention to policies and conditions specific to the region Two keynote papers by international experts explore legal aspects of cultural heritage protection and management of cultural sites Three background papers cover the legislation of the 15 nations represented regional professional training opportunities and tropical environmental conditions that challenge managers of sites and collections The discussion summary includes suggestions for enhancing conservation awareness legislative action and policy implementation

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 Metric Handbook Pamela Buxton,2015-03-05 Significantly updated in reference to the latest construction standards and evolving building types Many chapters revised including housing transport offices libraries and hotels New chapter on flood aware design Sustainable design integrated into chapters throughout Over 100 000 copies sold to successive generations of architects and designers this book belongs in every design studio and architecture school library The Metric Handbook is the major handbook of planning and design information 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 building types 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 provides an invaluable resource for solving everyday design and planning problems *Desert Development* Yehuda Gradus,2012-12-06 The fact that approximately one third of the world s land mass is arid desert may be congenial for the camel and the cactus but not for people Nevertheless well over half a billion people or 15% of the world s population live in arid desert areas If the world s population were distributed evenly over the land surface we would expect to find about 30% of the population inhabiting arid desert areas Does the fact that only 15% of the world s population live in an arid desert environment reflect the harshness of the environment Or is it a testimony to the adaptability and ingenuity of mankind Do we view the glass as half full Or half empty The contributors to Desert Development Man and Technology in Sparselands adopt the position that the cup is half full and in fact could be filled much more Indeed many arid desert zones do thrive with life and given appropriate technological develop ment such areas could support even greater popUlations While the dire Malthusian prediction that rapid world population growth exceeds the carrying capacity of existent resource systems has gained popularity typified by the 1972 Club of Rome book Limits to Growth there is a growing body of serious work which rejects such pessimistic depletion models in favor of models which are mildly optimistic

Metric Handbook David Littlefield,2008-01-28 Take a look at the dedicated microsite for free sample content architecturalpress com the metric handbook Originally devised as a guide for converting from imperial to metric measurements The Metric Handbook has since been totally transformed into the major handbook of planning and design data for architects This new edition has been updated to account of the most recent changes to regulation and practice in particular the increasing emphasis on environmental legislation to meet the needs of the modern building design professional

The Metric Handbook deals with all the principal building types from airports factories and warehouses offices shops and hospitals to schools religious buildings and libraries For each type the book gives the basic design requirements and all the principal dimensional data as well as succinct guidance on how to use the information and what regulations the designer may need 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 a unique authoritative reference for solving everyday planning problems It has sold well over 100 000 copies worldwide to successive generations of architects and designers this is a book that truly belongs on every design office desk and drawing board

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

The Eco-Home Design Guide Christopher Day, 2015-10-29 The key principles of designing a pleasant comfortable and healthy eco home with a foreword written by HRH The Prince of Wales now King Charles III Designing an eco home is much more about working with your house s location and situation than relying on intrusive technology and hi tech materials With the soaring energy bills and the climate crisis it is now more important than ever to invest in a home that is considerate of keeping heat in In this handbook architect Christopher Day draws on his extensive experience to explain the key principles of eco home design using common sense methods Packed full of practical information it includes several case studies of eco homes reviewing with hindsight what worked well and what could have been better There is also guidance on how to generate energy upgrading old buildings and site planning With beautifully hand drawn illustrations Christopher explores how to use local topography combined with landscaping to improve your home s microclimate and keep your house dry and warm in the winter and cool in the summer There are also handy tips on how to minimise hidden environmental impacts and ideas on ways to make your home a safe and healthy place both emotionally and physically The Eco Home Design Guide is essential for anyone who wants to create a attractive environmentally friendly home that is in harmony with

its location *Cities, Disaster Risk and Adaptation* Christine Wamsler, 2014-01-23 Worldwide disasters and climate change pose a serious risk to sustainable urban development resulting in escalating human and economic costs. Consequently city authorities and other urban actors face the challenge of integrating risk reduction and adaptation strategies into their work. However, related knowledge and expertise are still scarce and fragmented. *Cities, Disaster Risk and Adaptation* explores ways in which resilient cities can be built and sustainable urban transformations achieved. The book provides a comprehensive understanding of urban risk reduction and adaptation planning, exploring key theoretical concepts and analysing the complex interrelations between cities, disasters and climate change. Furthermore, it provides an overview of current risk reduction and adaptation approaches taken by both city authorities and city dwellers from diverse contexts in low, middle and high income nations. Finally, the book offers a planning framework for reducing and adapting to risk in urban areas by expanding on pre-existing positive actions and addressing current shortfalls in theory and practice. The importance of a distributed urban governance system in which institutions and citizens' adaptive capacities can support and complement each other is highlighted. This book takes a holistic approach; it integrates perspectives and practice from risk reduction and climate change adaptation based on a specific urban viewpoint. The text is richly supplemented with boxed case studies written by renowned academics and practitioners in the field and test yourself scenarios that integrate theory into practice. Each chapter contains learning objectives, end of chapter questions, suggested further reading and web resources, as well as a wealth of tables and figures. This book is essential reading for undergraduate and postgraduate students of geography, urban studies and planning, architecture, environmental studies, international development, sociology and sustainability studies.

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 Urban Structure in Hot Arid Environments Mahmoud Tavassoli,2016-07-20 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 *Ecological and Health Effects of Building Materials* Junaid Ahmad Malik,Shriram Marathe,2021-08-07 This book deals with the present adverse effects of using precarious building materials on the ecology and human health Also the detailed discussions on the novel and greener construction materials and their utilization as an alternative to the conventional harmful existing methods and materials are also presented in the subsequent chapters This book helps to fill the research gaps in the existing prior art knowledge in the field of sustainable construction and green building materials and methods giving due importance to ecology and health specifically to the fields of sustainable structural engineering sustainable geotechnical engineering sustainable road engineering etc This book helps in achieving a sustainable environment through possible adoption of innovative and ecological construction practices Hence this book acts as a practical workbook mainly for the academicians and practicing engineers who are willing to work toward the consecrated building industry It is a well established fact that the constructions of the engineering structures consume more and more earth resources than any other human activities in the world In addition the construction related activities will produce several million tons of greenhouse gases toxic emissions water pollutants and solid wastes This creates a huge impact on environment and causes severe health issues on humans and animals It is thus important to create an eco friendly construction environment which can satisfy the ecological and health requirements **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 Proceedings of the 1st International Conference on Water Energy Food and Sustainability (ICoWEFS 2021) João Rafael da Costa Sanches Galvão, Paulo Sérgio Duque de Brito, Filipe dos Santos Neves, Flávio Gabriel da Silva Craveiro, Henrique de Amorim Almeida, Joel Oliveira Correia Vasco, Luís Miguel Pires Neves, Ricardo de Jesus Gomes, Sandra de Jesus Martins Mourato, Vânia Sofia Santos Ribeiro, 2021-05-08 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 *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 Desert Regions Boris A. Portnov, A. Paul Hare, 2012-12-06 Despite the common understanding of the importance of desert development in the contemporary world there are relatively few books published

to date on this subject The books and collective volumes published in this field deal primarily with environmental and physical aspects of desert development such as soil agriculture vegetation water resources etc In contrast this book addresses the issues of regional and urban development in desert areas which have not been given sufficient attention The present book is socially oriented It considers physical development of desert regions not as an end in itself but rather as an essential precondition for creating socially attractive and desirable environments for human settlement The book addresses the issues of desert development at three distinctive conceptual levels region urban environment and building and deals with both cold and hot deserts Approximately half of the chapters in this book are original contributions that have not been published elsewhere The remaining chapters fall into two groups 1 chapters which have been reprinted from various refereed journals and 2 chapters initially printed elsewhere and revised by their respective authors specifically for this collective volume In the former case permission to reproduce the material has been obtained from the respective copyright holders and the details of original publication and names of copyright holders are indicated in footnotes

Advancements in Sustainable Architecture and Energy Efficiency González-Lezcano, Roberto A., 2021-06-18 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

Ignite the flame of optimism with is motivational masterpiece, **Design Primer For Hot Climates** . In a downloadable PDF format (PDF Size: *), this ebook is a beacon of encouragement. Download now and let the words propel you towards a brighter, more motivated tomorrow.

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Design Primer For Hot Climates Introduction

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