

DESIGNING A HOUSE IN THE TROPICS

STRATEGIES FOR CREATING A COOL COMFORTABLE HOME IN A TROPICAL CLIMATE

SITE ORIENTATION



- Prioritise rooms that need the most natural ventilation and position them to take advantage of prevailing winds.
- Orient the shorter sides of your home to face the east and west sun, except where this compromises natural ventilation.

SUN SHADING



- Have large roof overhangs or covered outdoor areas for shading the north and south facing walls.
- Use vertical screens or shutters to shade west and east facing openings.
- Plant trees and other vegetation to shade east and west walls and to provide cooler surroundings.

NATURAL VENTILATION



- Have large window and door openings on two or more walls of each room to promote cross ventilation.
- Use upper-level windows or vents near the roof to allow rising hot air to escape.

WALL MATERIALS AND CONSTRUCTION



- Thermal massing materials like concrete walls and slabs are not ideal unless they are shaded. These store heat absorbed during the day and releases it into the room during the night.
- Consider using lightweight materials and framing construction instead since these will cool quickly.

ROOF DESIGN



- Use framed, high pitched roofs. High roofs keep warm air high above the people in the room.
- You can also incorporate light coloured, reflective roof covering materials.
- Use a double roof system especially when concrete is the layer underneath.

EXTERIOR SPACES



- Covered outdoor spaces like patios and verandas with functional uses create great outdoor rooms.
- Courtyards in the centre of the home help promote natural ventilation.
- Connections between indoors and nature makes rooms more enjoyable to be in.

WATER AND ENERGY EFFICIENCY



- Renewable energy sources like solar water heating and photovoltaic panels are a great addition.
- Use energy efficient appliances and light fixtures. Fans instead of air-conditioning will save energy.
- Install water saving devices and fixtures. Also harvest and store rainwater.

Architectural Detailing For The Tropics

ETIK2A



Architectural Detailing For The Tropics:

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

Architectural Detailing for the Tropics Evelyn Lip, 1988 *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

Building Design, Construction and Performance in Tropical Climates Mike Riley, Alison Cotgrave, Michael Farragher, 2017-08-29 The design construction and use of buildings in tropical climates pose specific challenges to built environment professionals This text seeks to capture some of the key issues of technology and practice in the areas of building design refurbishment construction and facilities management in tropical regions Using a consistent chapter structure throughout and incorporating the latest research findings this book outlines the functional requirements of buildings in tropical climates the challenges associated with the sustainability of the built environment building form and whole life performance in the context of a tropical setting the impact of potentially hostile tropical conditions upon building pathology and the durability of components structure and fabric the tasks which face those responsible for appraising the design condition maintenance and conservation of built heritage in tropical regions the facilities management issues faced in tropical climates and the refurbishment upgrade and renewal of the tropical built environment The book is ideal as a course

text for students of Architecture Construction Surveying and FM as well as providing a sound reference for practitioners working in these regions *Architecture for the Tropics* Carmen A. Rivera de Figueroa, 1980 **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 **Tropical House Design Handbook** ETIK2A, 2024-01-31 Packed with accessible information

this book covers all the technical and practical aspects of home design in tropical environments It begins by outlining the prerequisites needed to understand the issues involved climate heat thermal comfort etc and discusses the solutions offered by traditional housing It then identifies current solutions for protecting buildings and their occupants from solar radiation and external heat while promoting bioclimatic and environmentally friendly approaches The economic viability of the solutions identified is discussed as are the advantages and disadvantages of the materials depending on the context and standards in force Numerous examples illustrate how buildings can be adapted to local realities from the avant garde creations of Jean Prouv to those of today s architects who are committed to sustainable development as well as specific projects incorporating the recommendations made in this book More than 460 photos drawings diagrams tables maps house plans logos and pictograms illustrate this reference work for all those involved in construction in tropical regions particularly students in the field and more generally anyone from professionals to private individuals looking for useful information on this subject **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

Urban Vocabulary United States. Department of Housing and Urban Development. Library Division,1975 25 Tropical Houses in Indonesia Amir Sidharta,2012-07-02 25 Tropical Houses in Indonesia offers a selection of the best contemporary architecture and interior design in the archipelago Architects working in Indonesia and elsewhere in Southeast Asia face the challenge not only of creating spaces to suit the lifestyles of their users but also of addressing the environmental and climatic problems associated with living in the tropics Featured in this book are twenty five of the most innovative solutions to these challenges by some of Indonesia s foremost architects among them Jeffrey Budiman and Andra Matin Economic crises and political change within the country have inspired a new spirit of appreciation of modernist architecture and fostered a wave of architectural creativity which is distinctly Indonesian lively and refreshing Featured projects range from a new type of urban shop house to dramatic and flamboyant buildings emerging from the countryside Drawing on classical Indonesian aesthetics and conventions and blending these with dynamic cutting edge design ideas modern architecture in Indonesia has become dramatically aligned with international concepts of space incorporating stunning local elements and materials Urban Vocabulary United States. Department of Housing and Urban Development. Library and Information Division,1975

Tropical Engineering United States. Naval Facilities Engineering Command,1980 Tropical Architecture Maxwell Fry,Jane Drew,1964 In the dry and humid zones *The Construction Industry* George Ofori,1990 This basic text offers a comprehensive and fundamental description of the construction industry and the construction process citing examples from several countries at various stages of development It considers the features of the industry describes factors influencing the demand for and supply of construction problems facing the industry and ways of planning for and managing its development The book should be a basic source of information on the construction industry for undergraduate and postgraduate courses in architecture construction management quantity surveying related engineering fields and estate management It should also

be of relevance to administrators of the construction industry **Grammar of Architectural Design** Miles Danby,1963

Modern Tropical Garden Design Made Wijaya,2012-01-16 Made Wijaya guides readers through fantastically imagined and designed stylistically diverse outdoor environments exploring various theories of Modernism and its current expressions

Veranda Tropical Living Elizabeth V. Reyes,2012-06-05 This tropical design book showcases the innovative interior designs and architecture of The Philippines most luxurious homes Start with a warm tropical climate Add an abundance of exotic natural building material And then let the cross currents of Asian design and aesthetics create a rich architectural alchemy of it s own The result The exquisite homes of the Philippines a perfect balance of form and functionality beautifully portrayed in Tropical Living This Filipino design book presents over 30 of the latest homes in the archipelago from a classic old world penthouse in the art deco Malate area to the creative homes of artists of Antipolo from Asian fusion villas on Batangas Bay to the elite Philippine Mediterranean manors of Forbes park the book covers Filipino taste in all of its manifestations With over 400 fabulous full color photographs and texts from some of the country s leading architects and authors there is also an inspirational sourcebook of contemporary tropical furnishings It is a book of ideas to dip into and savor **Tropical Toolbox** Jacopo Galli,2022-03-24 Edwin Maxwell Fry and Jane Drew are two key figures of British

architecture in the second half of the twentieth century their most important work was the book Tropical Architecture in the Dry and Humid Zones a manual compiled from the experience acquired in Ghana and Nigeria between 1949 and 1960 The manual is the formalisation of a design method specific for tropical areas the search for a renewed rooting of modern architecture not based on formal research or the revival of folkloric themes but on the close relationship between environmental support and anthropic intervention The design method has its roots in African colonial history and was the result of a long process of adaptation of Western modernist ideas to the extreme climatic conditions of the African continent A cosmopolitan localism based on the application of science in humanistic terms and capable of combining global and local dimensions was translated into an approach that respected the deep roots of tradition while providing innovation in terms of architectural solutions Tropical Style Gillian Beal,2012-05-29 Tropical Style showcases thirty five contemporary

Malaysian homes and resorts that feature the use of indigenous cultural forms and cross cultural influences in new and exciting ways The elegant and often breathtaking houses apartments and resorts presented here evoke the essence of the modern tropical architecture Malaysian style a combination of indigenous cultural forms organic building materials exquisite local craftsmanship and adaptations to the sun drenched tropical climate Echoing trends in green architecture Malaysian homes historically evolved to integrate environmental factors into traditional building techniques and designs that are harmonious with outdoor living All the spaces included here have been selected for their stunning design originality of concept and innovative fusion of age old architectural patterns with a modern aesthetic sense Minimalist homes in Kuala Lumpur contemporary courtyard homes wooden houses in lush garden settings idyllic beach resorts and luxury homes

modeled on traditional Chinese and Malay houses full of Asian decor are illuminated in this book celebrating the fascinating multicultural eclecticism of modern day Malaysia With over 350 stunning color photographs Tropical Style Contemporary Dream Houses in Malaysia will delight and inspire those who wish to apply these ideas to their own tropical homes in any global setting **Metric Handbook** David Littlefield, 2008 This book deals with all the principal building types ranging from airports factories and warehouses offices shops and hospitals For each such building type the basic design requirements and all the principal dimensional data is given

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