

Of Tropical Housing And Climate Koenigsberger

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Village Housing in the Tropics - Jane Drew 2013-11-26

Tropical Architecture, although now a highly contested and debated term, is the name given to European modern architecture that has been modified to suit the climatic and sometimes cultural context of hot countries. These hot countries were labelled 'the tropics' and were often European colonies, or countries that had recently won their independence. Fry & Drew's book, written on the threshold of the end of the British Empire, was one of the first publications to offer practical advice to architects working in 'the tropics', based on the empirical studies they conducted whilst based in British West Africa during the Second World War. The book with its numerous illustrations, plans and easy to follow explanations became a key manual for all architects working in hot climates, and in particular those tasked with designing dwellings and small town plans. Although the Royal Engineers and Schools of Tropical Medicine had long been designing and campaigning for better planning, improved sanitation and had for example developed methods of cross-ventilation, this book became an instant hit. 'Tropical Architecture' suddenly bloomed into its own distinct canon, and by 1955 the Architectural Association had set up a course specialising in tropical architecture, led for a short time by Fry. Village Housing in the Tropics had a significant impact when it was written on a profession that had had little guidance on working in hot climates and on architecture students and universities who began to modify their courses to accommodate different conditions. Although from a post-colonial perspective many scholars now associate this architecture as being a continuation of the Imperial mission, this does not reduce the significance of the publication. Indeed, Tropical Architecture is regarded as being the forerunner to 'green architecture', developing passive low energy buildings that are tailored to suit their climate and built with local materials.

Tropical Architecture - Alexander Tzonis 2001

The tropical region covers a significant proportion of the globe, and yet its architecture receives relatively little outside comment or exposure. Dispersed widely throughout the world, the region incorporates areas as far-flung as the Caribbean islands, India, South-East Asia, and large parts of Australia, Africa and South and Central America. Despite their great cultural diversity, these areas share both climatic and ecological factors, as well as a post-colonial condition and the pressures of modernization in the world of globalization. Architects' reactions to the tropical context are as varied as the region is diverse. Tropical Architecture brings together architects and critics from throughout the tropical region, examining the implications of the opposing forces of tradition and innovation and the struggle between global and local order. Among the issues covered are sustainability, bio- and cultural diversity, micro-climatic control and technology and multi-disciplinary design. The argument centres on Critical Regionalism, a concept introduced into the architectural debate in the early 1980s by two of the book's co-authors, Tzonis and Lefaivre. This is not a style but rather an approach to architecture that asks for design to be conceived in response to the needs and opportunities of a specific region - although it is not inherently opposed to global potentials. The theoretical debate is backed up by case studies of a range of projects, from small-scale designs using minimal technology to super-sophisticated, high-tech solutions, and from schemes that look to environmental comfort to ones concerned with issues of symbolism and memory. It is out of this multiplicity of approaches that the general global lesson of Critical Regionalism as applied to tropical architecture is to be found. THE PRINCE CLAUS FUND stimulates and supports activities in the field of culture and development by granting awards, funding and producing publications and by financing and promoting networks and innovative cultural activities. Support is given both to persons and to organizations in African, Asian, Latin American and Caribbean countries.

Passive and Low Energy Ecotechniques - Arthur Bowen 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.

Sustainable Building - Design Manual - 2004-01-01

The second volume targets practitioners and focuses on the process of green architecture by combining concepts and technologies with best practices for each integral design component

The Architecture of Happiness - Alain De Botton 2010-12-03

Bestselling author Alain de Botton considers how our private homes and public edifices influence how we feel, and how we could build dwellings in which we would stand a better chance of happiness. In this witty, erudite look at how we shape, and are shaped by, our surroundings, Alain de Botton applies Stendhal's motto that "Beauty is the promise of happiness" to the spaces we inhabit daily. Why should we pay attention to what architecture has to say to us? de Botton asks provocatively. With his trademark lucidity and humour, de Botton traces how human needs and desires have been served by styles of architecture, from stately Classical to minimalist Modern, arguing that the stylistic choices of a society can represent both its cherished ideals and the qualities it desperately lacks. On an individual level, de Botton has deep sympathy for our need to see our selves reflected in our surroundings; he demonstrates with great wisdom how buildings — just like friends — can serve as guardians of our identity. Worrying about the shape of our sofa or the colour of our walls might seem self-indulgent, but de Botton considers the hopes and fears we have for our homes at a new level of depth and insight. When shopping for furniture or remodelling the kitchen, we don't just consider functionality but also the major questions of aesthetics and the philosophy of art: What is beauty? Can beautiful surroundings make us good? Can beauty bring happiness? The buildings we find beautiful, de Botton concludes, are those that represent our ideas of a meaningful life. The Architecture of Happiness marks a return to what Alain does best — taking on a subject whose allure is at once tantalizing and a little forbidding and offering to readers a completely beguiling and original exploration of the subject. As he did with Proust, philosophy, and travel, now he does with architecture.

Introduction to Architectural Science - Steven V. Szokolay 2014-04-11

Now in its third edition, this book provides the ideal and only reference to the physical basis of architectural design. Fully updated and expanded throughout, the book provides the data required for architects to design buildings that will maintain the users comfort in a variety of conditions, with minimal reliance on energy intensive methods like air conditioning. This is not a 'how to' book but answers the question why. It equips the reader with the tools to realize the full potential of the good intentions of sustainable, bioclimatic design. All sections have been revised and updated for this third edition including all the most relevant developments affecting heat, light and sound controls. The book responds to the need of understanding beyond 'rules of thumb'.

A Place in the Shade - Charles Correa 2010

Indian cities are mechanisms for social engineering—more powerful than anything we have seen before. They will transform this country. A Place in the Shade explores architectural and urban issues in India, from the house as a machine for dealing with our often hostile climate, to the metaphysical role of architecture as a Model of the Cosmos. This reflective, provocative and consistently readable collection of essays

argues that our habitat must respond to the overriding parameters of climate, culture and financial resources and that our physical environment should accommodate notions of inclusion and diversity, and that priceless quality of synergy which characterizes a city. Charles Correa identifies the defining issues of the urbanization process that is so rapidly transforming India. He writes, 'You cannot look at cities without wandering into architecture on the one hand and politics on the other.' Tragically, over the last few decades, urban real estate has become the primary source of financing for political parties and the politicians who run them. But our towns and cities are assets too precious to be squandered in this manner. Like the wheat fields of Punjab and the coal fields of Bihar, cities are a crucial part of our national wealth. Their success—or their failure—will determine our future. Indian cities are mechanisms for social engineering more powerful than anything we have seen before. They will transform this country. *A Place in the Shade* explores architectural and urban issues in India, from the house as a machine for dealing with our often hostile climate, to the metaphysical role of architecture as a Model of the Cosmos.

Architecture and the Urban Environment - Derek Thomas 2007-06-01

This well illustrated text forms a critical appraisal of the place and direction of architecture and urban design in a new world order at the start of the 21st century. The book defines architectural and environmental goals for the New Age by analysing recent contemporary work for its responsiveness to important social and environmental issues and comparing it to successful precedents in architecture. It argues that this new sustainable approach to architecture should be recognised as a new development of mainstream architectural history. This practical guide illustrates current social and natural resource issues to aid architects in their approach to future design. Environmental economics is presented as a potential bridge over the divide between the expectations of the business sector and the concerns of environmental lobbies. Through examples and case studies, an accessible analysis of carefully researched data, drawn from primary sources over four continents, allows the author to outline the current urgency for architects and urban designers to respond with real commitment to current and future changing contexts. This book expresses a holistic vision and proposes a value system in response to the diagnosis. It includes: sound architectural and environmental ethics; end user involvement in the design process and technological advances aimed at sustainable resource use. Includes international case studies from Europe, North America, the Developing world including South Africa, South America and Central Asia.

Floor Plan Manual Housing - Oliver Heckmann 2017-10-10

The Floor Plan Manual Housing has for decades been a seminal work in the field of architecture. In its 5th, revised and expanded edition, approximately 160 international housing projects built after 1945 are documented and analyzed. The focus is on exemplary and transferrable projects, and on innovative and trendsetting concepts. The systematic representation of all projects allows the reader to compare and evaluate various floor plans – and to be inspired by the wealth of ideas and strategies for one's own design work. The introductory theoretical and historical essays have been newly written or updated, and offer a structured overview of the residential housing typology and its development.

Third World Modernism - Duanfang Lu 2010-11-02

This set of essays challenge interpretations of the development of modernist architecture in Third World countries during the Cold War. The topics look at modernism's part in the transnational development of building technologies and the construction of n.

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.

Moisture control in buildings - Heinz R. Trechsel 1994

Building Construction - B. C. Punmia 2008-04

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.

Natural Energy and Vernacular Architecture - Hassan Fathy 1986

The culmination of a lifetime's design practice and environmental study, *Natural Energy and Vernacular Architecture* presents a master architects' extraordinary insights into the vernacular wisdom of indigenous architectural forms that have evolved in hot arid climates.

The Barefoot Architect - Johan van Lengen 2008

"A fully comprehensive guide to building in the tropical world, 'Barefoot Architect' covers everything from how to build in various climates, to the step-by-step practicalities of building homes that suit the local environment." --Publisher.

Eco-resorts - Zbigniew Bromberek 2009-06-04

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. Z (Zbigniew) Bromberek, PhD, is an architect educated and registered in Poland, and postgraduate-educated and residing in Australia. Z has been practising and teaching architecture for nearly 30 years. He has been involved and

associated with various educational institutions and professional organizations in a number of countries around the world. Before the current appointment as Senior Lecturer in Architecture at the University of Tasmania, Z spent three years as Lecturer in Environmental Design at the University of Queensland, and two years as Guest Professor in Architectural Design in Nanjing, PR China. He was also the President of the Architectural Science Association ANZAScA for three consecutive terms in 2000–05. Z's major research interests include design-environment interaction, low-impact architecture and re-integration of architecture as an expression of a multi-disciplinary approach to design.

Modern Architecture in Africa - Antoni S. Folkers 2019-07-22

This book offers unique insights into modern African architecture, influenced by modern European architecture, and at the same time a natural successor to existing site-specific and traditional architecture. It brings together the worlds of traditional site-specific architecture with the Modernist Project in Africa, which to date have only been considered in isolation. The book covers the four architectural disciplines: urban planning, building technology, building physics, and conservation. It includes an introduction with a historical outline and an analysis and comparison of a number of projects in various countries in Africa. On the basis of examples drawn from practice, the author documents and describes the hybrid architectural forms that have emerged from the confrontation and fusion with (pre)modern Western architecture and urban planning, and in so doing he also narrates the history of African architecture.

Sustainable Building Design - Chitrarekha Kabre 2017-10-10

This book bridges the gap between research and practice in the area of sustainable design of buildings, exploring the passive (climate-responsive) design and thermal behavior of buildings and ways to incorporate these enhancements in architectural and civil engineering practice. It presents climatic data and its analysis in a readily usable form and shows ways in which such data can be used to achieve passive (climate-responsive) and sustainable building design. The book presents case studies of sustainable building in each of five climatic zones of India. The book includes climatic data from 62 cities in India and describes how it can be synthesized in sustainable building design. The book can serve as a practical tool or handbook for architects, engineers, and designers, providing them with an understanding of the physical phenomena involved and a means for suitably implementing and applying passive (climate-responsive) design principles. It also offers a valuable resource for researchers, students, and policymakers working in the area of sustainable building design and construction.

The Elements of Architecture - Scott Drake 2014-02-04

The Elements of Architecture is a clear and well structured introduction to sustainable architecture, which concentrates on general principles to make an accessible and comprehensive primer for undergraduate students. The author takes a fresh and logical approach, focusing on the way aspects of the built environment are experienced by the occupants and how that experience is interpreted in architectural design. He works through basic elements and senses (sun; heat; light; sound; air; water and fire) to explain and frame effective environmental architectural design - not only arguing that the buildings we inhabit should be viewed as extensions of our bodies that interact with and protect us from these elements, but also using this analogy to explain complex ideas in an accessible manner.

A City in Blue and Green - Peter G. Rowe 2019-08-30

This open access book highlights Singapore's development into a city in which water and greenery, along with associated environmental, technical, social and political aspects have been harnessed and cultivated into a liveable sustainable way of life. It is also a story about a unique and thoroughgoing approach to large-scale and potentially transferable water sustainability, within largely urbanized circumstances, which can be achieved, along with complementary roles of environmental conservation, ecology, public open-space management and the greening of buildings, together with infrastructural improvements.

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.

Manual of Tropical Housing and Building - O.H. Koenigshberger 2010

Architecture and Urbanism in the British Empire - G. A. Bremner 2016

A comprehensive overview of the architectural and urban transformations that took place across the British Empire between the seventeenth and mid-twentieth centuries, exploring the built heritage of Britain's former colonial empire as a fundamental part of how we negotiate our postcolonial identities.

Manual Of Tropical Housing & Building - Otto H Koenigsberger 1975

Designed As A Textbook For Students Of Architecture, Housing, Environmental Design And Climate Control In Tropical Countries, This Book Deals With The Theory Of Climatic Design And Shows How Practical Solutions Are Derived From Theoretical Understanding. *Design Principles of Atrium Buildings for the Tropics* - Mohd. Hamdan Ahmad 2000

City Planning in India, 1947-2017 - Ashok Kumar 2020-07-06

This book is a comprehensive history of city planning in post-independence India. It explores how the nature and orientation of city planning have evolved in India's changing sociopolitical context over the past hundred or so years. The book situates India's experience within a historical framework in order to illustrate continuities and disjunctions between the pre- and post-independent Indian laws, policies, and programs for city planning and development. It focuses on the development, scope, and significance of professional planning work in the midst of rapid economic transition, migration, social disparity, and environmental degradation. The volume also highlights the need for inclusive planning processes that can provide clean air, water, and community spaces to large, diverse, and fast growing communities. Detailed and insightful, this volume will be of interest to researchers and students of public administration, civil engineering, architecture, geography, economics, and sociology. It will also be useful for policy makers and professionals working in the areas of town and country planning.

Passive and Low Energy Building Design for Tropical Island Climates - N. V. Baker 1987

This technical handbook aims to assist the architect and engineer in the problem of energy conservation in buildings in the tropical island climate.

Tropical Sustainable Architecture - Joo Hwa Bay 2007-03-14

The tropical belt - where large areas of South East Asia, India, Africa and parts of both North and South America are located - forms the biggest landmass in the world and has one of the highest numbers of rapidly developing cities. Coincidentally, architecture in these regions shares common problems, the most easily identifiable being the tropical conditions of climate and natural environment. The context for architecture here is fraught with conflicts between tradition and modernization, massive influx of rural poor into urban areas, poorly managed rapid urban development as well as the cultural and social strain of globalization. Many local and overseas architects, planners and city fathers are interested in the social and environmental dimensions of these areas that contribute towards short terms solutions and long term sustainable developments. This book, developed from the first conference of the International Network for Tropical Architecture, supplies a wealth of information from experts worldwide covering the cultural, environmental and technical aspects of thinking, researching and designing for the tropics.

Sustainable Building Design for Tropical Climates - Federico Butera 2014

The Architecture of Edwin Maxwell Fry and Jane Drew - Iain Jackson 2016-03-16

Maxwell Fry and Jane Drew were pioneers of Modern Architecture in Britain and its former colonies from the late 1920s through to the early 1970s. As a barometer of twentieth century architecture, their work traces the major cultural developments of that century from the development of modernism, its spread into the late-colonial arena and

finally, to its re-evaluation that resulted in a more expressive, formalist approach in the post-war era. This book thoroughly examines Fry and Drew's highly influential 'Tropical Architecture' in West Africa and India, whilst also discussing their British work, such as their post World War II projects for the Festival of Britain, Harlow New Town, Pilkington Brothers' Headquarters and Coychurch Crematorium. It highlights the collaborative nature of Fry and Drew's work, including schemes undertaken with Elizabeth Denby, Walter Gropius, Denys Lasdun, Pierre Jeanneret and Le Corbusier. Positioning their architecture, writing and educational endeavours within a wider context, this book illustrates the significant artistic and cultural contributions made by Fry and Drew throughout their lengthy careers.

Human Bioclimatology - Andris Auliciems 2013-03-07

A. AULICIEMS Living organisms respond to atmospheric variability and variation, and over time morphological and process differentiations occur both within individuals and the species, as well as in the environment itself. In systems language, the concern is with the atmospheric process-response system of energy and matter flows within the biosphere. The study of such interactions between living organisms and the atmospheric environment falls within the field of bioclimatology, alternatively referred to as biometeorology. Amongst the more readily recognizable study areas under the bioclimatology that investigate the effects of atmospheric variation and ical umbrella are those variability upon 1. Terrestrial and aquatic ecology (zoological, botanical and ethological), natural resource production and management (including silviculture, agriculture, horticulture, and grassland, wetland, and marine systems). 2. Stress, morbidity and mortality in animals and humans (including physiological and psychological adaptations). 3. The built environment (all aspects of planning, urban design, and architecture). 4. Economic systems and social activities (including organizational, individual, and group behavior and management). In addition, bioclimatology is very much concerned with the feedback loop, that is both 5. The inadvertent modification of the atmosphere by living systems, especially human, i.e., studies of pollution, changes to atmospheric amenity, and the processes of deterioration of landscape (deforestation and desertification), and 6. The advertent modifications of natural energy and matter flows within urban areas and indoor climate constructions.

Sun, Wind, and Light: Architectural Design Strategies - Mark DeKay 2014-02-03

An updated guide to designing buildings that heat with the sun, cool with the wind, and light with the sky. This fully updated Third Edition covers principles of designing buildings that use the sun for heating, wind for cooling, and daylight for natural lighting. Using hundreds of illustrations, this book offers practical strategies that give the designer the tools they need to make energy efficient buildings. Hundreds of illustrations and practical strategies give the designer the tools they need to make energy efficient buildings. Organized to quickly guide the designer in making buildings respond to the sun, wind and light.

Bengaluru, Bangalore, Bengaluru - Narendar Pani 2008-08-01

Probing into the history beyond mere historical facts, this book focuses on the 'imaginings' that have determined the course of Bengaluru over the last two-and-a-half centuries. It puts together contemporary accounts of the imaginings of those who were heard at each point of time. This approach is particularly relevant in present day India, of the current time where debates on history are largely a matter of choosing one set of historical facts instead of another. The imaginings in the book relate to those of the Bengaluru of the eighteenth century that the British colonised; the nineteenth century Bangalore they ruled, directly or indirectly; the Bangalore of the twentieth century years after Independence; and the Bengaluru of the twenty-first century. It identifies the events that marked the turning points in the history of the city over those centuries, from the Battle for Bangalore in 1791 to the battles on the city's roads in the twenty-first century. It then picks the 'words' that capture the imagination that prompted each event, whether it was in the form of Thomas Munro's letter home, Seshadri Iyer's report to the Assembly on the plague or the prospectus of the Initial Public Offer of shares by Infosys. This work, which provides a new view of Bengaluru's history as well as a method of looking at the past that is quite different from most Indian historical studies, will interest historians, sociologists and all academics in the social sciences.

Preservation of Archives in Tropical Climates - René Teygeler 2001

Climate Adaptability of Buildings - Mitja Košir 2019-04-27

This book examines bioclimatic design with a focus on the application of climate adaptability in the design of future buildings and renovation of

existing energy-efficient buildings. It addresses the challenge of how to construct and renovate buildings so that they maintain desired performance even as the climate changes in future decades. The book is divided into six chapters that guide the reader from basic concepts to discussions on specific aspects of bioclimatic design, including: Why do we construct buildings and why do they matter? Where should we get started with bioclimatic design? The opportunities and potential held by climate for the by bioclimatic architecture and design. How and why should we design bioclimatic buildings to accommodate future climatic conditions? Climatic changes and implications for the bioclimatic design of buildings. The author presents an overview of effective bioclimatic design strategies that enable climate-adaptable buildings. He also addresses the problems of designing with climate, which are relevant for all types of building design—in particular, the implications for bioclimatic buildings that are intrinsically connected to the climate they were adapted to. The book combines representative examples, diagrams, and illustrations, and concludes each chapter by reviewing the most important findings and concepts discussed. The book offers a valuable source of information for researchers and architectural engineers, who will gain essential insights into the process of using the available tools and data to design buildings that can respond to future climate challenges, as well as a general introduction into the field of bioclimatic building design. The book will also be of interest to graduate students and architects, as it approaches bioclimatic design with a particular focus on the analytical design process for such buildings.

Architecture: A Very Short Introduction - Andrew Ballantyne 2002-08-22

This highly original and sophisticated look at architecture helps us to understand the cultural significance of the buildings that surround us. It avoids the traditional style-spotting approach in favour of giving an idea of what it is about buildings that moves us, and what it is that makes them important artistically and culturally. The book begins by looking at how architecture acquires meaning through tradition, and concludes with the exoticism of the recent avant garde. Illustrations of particular buildings help to anchor the general points with specific examples, from ancient Egypt to the present day. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

World Renewable Energy Congress VI - A. A. M. Sayigh 2000-09-26

The World Renewable Energy Congress is a key event at the start of the 21st century. It is a vital forum for researchers with an interest in helping renewables to reach their full potential. The effects of global warming and pollution are becoming more apparent for all to see - and the development of renewable solutions to these problems is increasingly important globally. If you were unable to attend the conference, the proceedings will provide an invaluable comprehensive summary of the latest topics and papers.

The Principles of Green Urbanism - Steffen Lehmann 2010

How cities and infrastructure are designed, built and operated has a significant impact on the environment. This book shows how we can transform and future-proof the post-industrial city through strategies of architectural and urban design. The answer is to use an energy-efficient, zero-carbon model based on renewable energy sources and renewable building typologies. This book presents new models for sustainable urban growth, based on the principles of Green Urbanism. Current and emergent forms of urbanism are influenced by climate change, leading to the idea of a new generation of zero-emission cities'. These cities are seen as applying new concepts in densification and expansion, designed with energy efficiency and sustainability as principal criteria. The aim of this type of 'Systems Thinking' is to connect and integrate sustainable design principles with a holistic idea for the future of our cities to generate future-proof strategies for the revitalization of the urban landscape. The first section of the book clearly explains these principles and how they can be employed, illustrated by clear diagrams for ease of comprehension. The principles as applied are then explored through in-depth case studies of the post-industrial Australian city of Newcastle, which is at an important juncture in its urban evolution. Strategies for Green Urbanism are presented that are both local and global in scope and relevance. This is essential reading for urban designers, architects, landscape architects and researchers/students in these disciplines around the world.

APPLIED OPTICS - DEVRAJ SINGH 2015-08-15

Applied Optics is designed to cater to the need of application part of

optics for undergraduate students in Physics and Engineering in Indian Universities. The book covers the applications of optics for lasers, optical fibres, holography, special theory of relativity, particle nature of radiations and photoconductivity and photovoltaics. The text explains the concepts through extensive use of line drawings and gives full derivations of essential relations. The topics are dealt with in a well-organized sequence with proper explanations along with simple

mathematical formulations. KEY FEATURES • Provides several Solved Numerical Problems to help students comprehend the concepts with ease • Includes Multiple Choice Questions and Theoretical Questions to help students check their understanding of the subject matter • Contains unsolved Numerical Problems with answers to build problem-solving skills • Provides Formulae at a Glance and Conceptual Questions with their answers for quick revision