# Naturally Ventilated Buildings

BUILDINGS FOR THE SENSES, THE ECONOMY AND SOCIETY

Bdited by
Derek Clements-Croome



# Naturally Ventilated Buildings Buildings For The Senses Economy And Society

Dean Hawkes, with Jane McDonald, Koen Steemers

# **Naturally Ventilated Buildings Buildings For The Senses Economy And Society:**

<u>Naturally Ventilated Buildings</u> Derek Clements-Croome,2002-11-01 While there are many historical examples of successful naturally ventilated buildings standards for indoor climate have tended to emphasise active mechanical airflow systems rather than passive natural systems Despite its importance knowledge about the performance of naturally ventilated buildings has remained comparatively sparse With ten key research papers this book seeks to address this lack of information

**Naturally Ventilated Buildings** Derek Clements-Croome,2002-11 While there are many historical examples of successful naturally ventilated buildings standards for indoor climate have tended to emphasise active mechanical airflow systems rather than passive natural systems Despite its importance knowledge about the performance of naturally ventilated buildings has remained comparatively sparse With ten key research papers this book seeks to address this lack of information

**Tropical Sustainable Architecture** Joo Hwa Bay, Boon Lay Ong, 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 Stav 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 **Environmental Diversity in Architecture** Koen Steemers, Mary energy efficient architecture techniques and practice Ann Steane, 2004 This book takes the position that the dynamic of the architectural environment is a key aspect of good design yet one which is not well anticipated or understood Environmental variety is a design characteristic closely related to our experience of architecture an architecture of the senses Each chapter demonstrates how an understanding of a particular context or environmental characteristic in dynamic terms informs design The book is an antidote to the misconceptions of optimum environmental performance or fixed criteria instead embracing the richness of environmental variety Growing Compact Joo Hwa P. Bay, Steffen Lehmann, 2017-07-06 Growing Compact Urban Form Density and Sustainability explores and unravels the phenomena links and benefits between density compactness and the sustainability of cities It looks at the socio climatic implications of density and takes a more holistic approach to sustainable urbanism by understanding the correlations between the social economic and environmental dimensions of the city and the challenges and opportunities with density The book presents contributions from internationally well known scholars thinkers and practitioners whose theoretical and practical works address city planning urban and architectural design for density and sustainability at various levels including challenges in building resilience against climate change and natural disasters capacity and integration for growth and adaptability ageing community and security vegetation food production compact resource systems and regeneration Bioclimatic Architecture in Warm Climates Manuel Correia Guedes, Gustavo Cantuaria, 2019-04-30 This book provides a comprehensive hands on approach to bioclimatic building design in Africa Bioclimatic design is at the core of urban sustainability and is a critical issue in Africa where imported building typologies are being used at an increasing pace disregarding the local context and consequently causing damage to the environment to the economy and to the culture itself This book provides a concise set of sustainable design guidelines to be applied in both new buildings and the refurbishment of old buildings and integrates bioclimatic design strategies with other sustainability issues such as cultural aspects affordability and urban planning Chapters are fully illustrated with photographs and drawings and include best practice examples and strategies making it accessible to engineers architects students and a broad range of professionals in the building industry Encompasses all climatic regions in Africa Integrates bioclimatic design strategies with other sustainability issues Discusses new design to refurbishment from urban to rural including office buildings residential tourism social housing and self building Heating and Water Services Design in Buildings Keith Moss, Keith | Moss, 2013-05-13 This

book provides a thorough and practical coverage of design procedures with numerous examples and case studies The author has worked with open learning candidates of all ages as well with college students and university undergraduates

Ventilation of Buildings H.B. Awbi, 2004-06-02 Hazim Awbi s Ventilation of Buildings has become established as the definitive text on the subject This new thoroughly revised edition builds on the basic principles of the original text drawing in the results of considerable new research in the field A new chapter on natural ventilation is also added and recent developments in ventilation concepts and room air distribution are also considered. The text is intended for the practitioner in the building services industry the architect the postgraduate student undertaking courses or research in HVAC building services engineering or building environmental engineering and the undergraduate studying building services as a major subject Readers are assumed to be familiar with the basic principles of fluid flow and heat transfer and some of the material requires more advanced knowledge of partial differential equations which describe the turbulent flow and heat transfer processes of fluids The book is both a presentation of the practical issues that are needed for modern ventilation system Proceedings CLIMA 2022 Laure Itard, Lada design and a survey of recent developments in the subject Hensen-Centnerová, Atze Boerstra, Philomena Bluyssen, Jan Hensen, Tillmann Klein, Marcel Loomans, Pieter Pauwels, Christian Struck, Martin Tenpierik, Bob Geldermans, 2022-10-12 The 14th REHVA HVAC World Congress CLIMA2022 challenges advances in technologies for smart energy transition digitization circularity health and well being in buildings How can we create circular buildings fully heated cooled and powered by renewable energy How can we design human centered indoor environments while mastering life cycle costs How can we also include their integration into infrastructure for energy health data and education Building Energy Management Systems Geoff Levermore, 2013-07-04 revision includes natural ventillation sick building syndrome low energy air conditioning New edition of this well established text Key text for under post graduate courses in building services 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 The Selective Environment Dean Hawkes, with Jane McDonald, Koen Steemers, 2013-10-08 The complex art of architecture embraces all of the concerns of the world's cultures It meets the fundamental needs for shelter from the elements but almost from its origins has acquired other purposes and meanings The Selective Environment is an approach to environmentally responsive architectural design that seeks to make connections

between the technical preoccupations of architectural science and the necessity never more urgent than today to sustain cultural identity at a time of rapid global technological change Urban Resilience, Livability, and Climate Adaptation Ilaria Pigliautile, Cristina Piselli, Hirushie Pramuditha Karunathilake, Claudia Fabiani, 2024-06-30 This book explores urban environments and their impact on resilience livability climate adaptation health and societal well being It provides interdisciplinary insights for fostering resilient livable and sustainable cities prioritizing well being and quality of life for all residents The book covers various topics and discusses innovative approaches for incorporating nature into urban planning It also examines the relationships between diet diversity food environments and transportation systems Spatial analysis of noise contour maps based on traffic speed is conducted along with an assessment of the impact of office environments on productivity The book explores the influence of streetscapes on anxiety envisions future cities from a youth perspective and identifies critical factors affecting the design and use of elevated urban spaces Daylighting performance in school expansions is evaluated and the concept of a livable city is examined Community adaptive capacity for climate resilient development is assessed through a case study analysis The livability of street vendors in different urban contexts is compared and alternative perspectives on restorative environments are presented. The book investigates the impact of urban refugees on cities and reevaluates scientific theories for human well being oriented built environments It evaluates tourist satisfaction with urban railway systems and explores sport as a tool for healthy and sustainable cities **Beyond Environmental Comfort** Boon Lay Ong, 2013-06-26 Beyond Environmental Comfort highlights some of the key ideas that form the foundation of the field of environmental comfort and at the same time gives voice to some of the concerns and considerations on the limitations of the field as it stands today Bringing together a range of foremost thinkers in their respective fields Michel Cabanac Derek Clements Croome Nick Baker Harold Marshall Juhani Pallasmaa Dean Hawkes and Constance Classen this book argues for a deeper appreciation of how environmental comfort may be understood in terms of our relationship with the environment rather than as independent qualities For the first time these diverse views are brought together by Editor Boon Lay Ong to present insights into a world beyond what is normally covered in academic research In the process an attempt is made to define the field for the future This book shows that it is by understanding just how environmental design needs to go beyond mere comfort and deal with well being that we can meaningfully design our future Mixed-mode Office Buildings Erik William Ring, 2000 Proceedings of the ASME Heat Transfer Division, 2007 Cognitive Biases in Design Joo-Hwa Bay,2001 The British National Bibliography Arthur James Wells, 1998 The Cumulative Book Index ,1998 A world list of books in the English language

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