

Ulrike Passe and Francine Battaglia

# DESIGNING SPACES FOR NATURAL VENTILATION

AN ARCHITECT'S GUIDE



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# Designing Spaces For Natural Ventilation An Architects Guide

**Ying-Ying Zheng**



## **Designing Spaces For Natural Ventilation An Architects Guide:**

Designing Spaces for Natural Ventilation Ulrike Passe, Francine Battaglia, 2015-03-12 Buildings can breathe naturally without the use of mechanical systems if you design the spaces properly This accessible and thorough guide shows you how in more than 260 color diagrams and photographs illustrating case studies and CFD simulations You can achieve truly natural ventilation by considering the building s structure envelope energy use and form as well as giving the occupants thermal comfort and healthy indoor air By using scientific and architectural visualization tools included here you can develop ventilation strategies without an engineering background Handy sections that summarize the science explain rules of thumb and detail the latest research in thermal and fluid dynamics will keep your designs sustainable energy efficient and up to date

**Designing Spaces for Natural Ventilation** Ulrike Passe, 2015     Heat and Mass Transfer in Building Energy Performance Assessment Robert Černý, Ákos Lakatos, Václav Kočí, 2019-12-03 The building industry is influenced by many factors and trends reflecting the current situation and developments in social economic technical and scientific fields One of the most important trends seeks to minimize the energy demand This can be achieved by promoting the construction of buildings with better thermal insulating capabilities of their envelopes and better efficiency in heating ventilation and air conditioning systems Any credible assessment of building energy performance includes the identification and simulation of heat and mass transfer phenomena in both the building envelope and the interior of the building As the interaction between design elements climate change user behavior heating effectiveness ventilation air conditioning systems and lighting is not straightforward the assessment procedure can present a complex and challenging task The simulations should then involve all factors affecting the energy performance of the building in questions However the appropriate choice of physical model of heat and mass transfer for different building elements is not the only factor affecting the output of building energy simulations The accuracy of the material parameters applied in the models as input data is another potential source of uncertainty For instance neglecting the dependence of hygric and thermal parameters on moisture content may affect the energy assessment in a significant way Boundary conditions in the form of weather data sets represent yet another crucial factor determining the uncertainty of the outputs In light of recent trends in climate change this topic is vitally important This Special Issue aims at providing recent developments in laboratory analyses computational modeling and in situ measurements related to the assessment of building energy performance based on the proper identification of heat and mass transfer processes in building structures Potential topics include but are not limited to the following Development calibration and validation of advanced mathematical models for the description of heat and mass transfer in building materials and structures Computational modeling of heat and mass transfer in building materials and structures aimed at energy performance assessment Boundary conditions for building energy performance simulations in light of climate change trends Advanced experimental techniques for the determination of heat and mass transport and the storage properties of building

materials On site monitoring and verification of building energy performance Research and development of new materials with high potential to improve the energy performance of buildings      **Building in Hot and Humid Regions** Napoleon Enteria, Hazim Awbi, Mat Santamouris, 2019-04-26 This book presents an in depth analysis covering climatic and weather conditions house and building development history construction methods and technologies and environmental conditions It provides relevant house and building information and highlights recent advances in hot and humid regions as well as developments in other regions that are relevant to hot and humid climates The countries in hot and humid regions which include the tropical countries the Middle Eastern countries around the Mediterranean and many countries of Central Asia and Africa are home to some of the most challenging conditions in the world in terms of house and building design and construction and in terms of maintaining indoor thermal comfort and air quality in an energy efficient way The book's respective chapters prepared by expert contributors cover essential concepts designs and construction methodologies for houses and commercial buildings As such the book offers a valuable resource for undergraduate and graduate students in architecture and engineering house and building designers and building sciences researchers Building contractors manufacturers and distributors of building equipment and devices and government policymakers and legislators will also benefit from the information provided in this book      **Teaching Carbon Neutral Design in North America** Robin Z.

Puttock, 2025-03-12 This book brings to light a diverse range of innovative architectural design studio methodologies formulated to educate future graduates to combat the climate crisis through carbon neutral design Award winning professors detail tried and tested studio methodologies outlining their philosophical rationale the role of precedent study design concept and professional partnerships the approach to analytics and software design development required readings assignment and student work examples and anticipated future innovation Chapters are grouped under varying focal points including community empowerment bioclimatic response performance analytics design build and urban scale all adopting a holistic view of sustainable design that incorporates technical challenges as well as those of equity and social justice This heterogeneous compilation of strategies encourages wide accessibility to and acceptance by studio professors as well as administrators and faculty developing architecture curricula This will in turn maximize the impact on curtailing carbon emissions resulting from the construction and operations of our built environment      **Embodied and Operational Carbon**

**in Buildings** Shveta Mohan, Vijayalaxmi J., 2024-12-27 This book offers the basics of embodied and operational carbon while discussing the inclusion of carbon emission in the GBRS at global and national level This book also critically explores the important topic of embodied and operational carbon of buildings with insights on the strategies to measure and reduce embodied carbon in buildings through a case study and application approach This approach assesses the impact of embodied carbon on the choice of structural systems alternate building materials alternate building technologies and air conditioning system The impact of these alternate measures in reducing embodied and operational carbon is analyzed by demonstrating

its use on a base case building which is similar to an existing office building in India The quantified data enables architects and designers to make early design decisions for a more environmentally sensitive approach to sustainable building designs This book is a valuable resource for students researchers and practicing architects in understanding evidence based repercussions of structural systems use of materials technology and air conditioning systems to design green and sustainable buildings

**Alvar Aalto and the Future of Architecture** Robert Cody, Angela Amoia, 2022-09-09 In the contemporary practice of architecture digital design and fabrication are emergent technologies in transforming how architects present a design and form a material strategy that is responsible equitable sustainable resilient and forward looking This book exposes dialogue between history theory design construction technology and sensory experience by means of digital simulations that enhance the assessment and values of our material choices It offers a critical look to the past to inspire the future This new edition looks to Alvar Aalto as the primary protagonist for channeling discussions related to these topics Architects like ALA Shigeru Ban 3XN Peter Zumthor and others also play the role of contemporary guides in this review The work of Aalto and selected contemporary architects along with computer modeling software showcase the importance of comprehensive design Organized by the five Ts of contemporary architectural discourse Typology Topology Tectonics Technic Thermodynamics each chapter is used to connect history through Aalto and develop conversations concerning historical and contemporary models digital simulations ecological and passive active material concerns construction and fabrications and healthy sensorial environments Written for students and academics this book bridges knowledge from academia into practice and vice versa to help architects become better stewards of the environment make healthier and more accountable buildings and find ways to introduce policy to make technology a critical component in thinking about and making architecture

**Energy Modeling in Architectural Design** Timothy Hemsath, Kaveh Alagheh Bandhosseini, 2017-07-06 Energy Modeling in Architectural Design demonstrates how design elements can lead to energy savings to help you reduce the energy footprint of your buildings In addition to identifying climate opportunities you ll also learn fundamental passive design elements for software agnostic energy modeling of your projects from conception Using parametric models and testing each element during design will lead you to create beautiful and high performance buildings Illustrated with more than 100 color images this book also includes a pattern guide for high performance buildings discusses energy and daylighting optimization and has a glossary for easy reference

*The Routledge Companion to Smart Design Thinking in Architecture & Urbanism for a Sustainable, Living Planet* Mitra Kanaani, 2024-11-11 This comprehensive companion surveys intelligent design thinking in architecture and urbanism investigates multiple facets of smart approaches to design thinking that augment the potentials of user experiences as well as his her physical and mental interactions with the built environment Split into six paradigms this volume looks at the theoretical and historical background of smart design smart design methodologies and typologies smart materials smart design for extreme weather and climatic regions as well as climate change issues and side effects smart

mobility and the role of digital technologies and simulations in architectural and urban design Often at odds with each other this volume places emphasis on smart design for various typologies and user groups emphasizing on advancements in form making and implementation of technology for healthy and sustainable living environments Written by emerging and established architects planners designers scientists and engineers from around the globe this will be an essential reference volume for architecture and urban design students and scholars as well as those in related fields interested in the implications various facets and futures of smart design

**Rebuilding the Houses of Parliament** Henrik Schoenefeldt, 2020-12-30 Rebuilding the Houses of Parliament explores the history of the UK Houses of Parliament in Westminster from an environmental design perspective and the role David Boswell Reid played in the development of the original ventilation and climate control system in parliament This book retraces and critically examines the evolution of the environmental principles underlying the design of the Houses of Parliament engaging with fundamental questions about air quality energy efficiency and thermal comfort This yields insights into the historic methods of environmental design that were characterised by physical experimentation and post occupancy evaluation Rebuilding the Houses of Parliament examines the history of the buildings operation studying the practical reality of its performance in use and offers the opportunity to reflect on current challenges faced by architects and engineers adapting to the realities of climate change This book is an ideal read for academics politicians and practitioners with an interest in architectural history and heritage theory engineering and conservation

**New Approaches in Contemporary Architecture and Urbanism** Edited by Dr. Hourakhsh Ahmad Nia, 2020-07-01 This book is an intellectual discourse and a concise compendium of current research in architecture and urbanism Primarily it is a book of readings of 16 chapters The book brings together theories manifestos and methodologies on contemporary architecture and urbanism to raise the understanding for the future architecture and urban planning Overall the book aimed to establish a bridge between theory and practice in built environment Thus it reports on the latest research findings and innovative approaches methodologies for creating assessing and understanding of contemporary built environment

**About Streets** Gregory Marinic, Pablo Meninato, 2025-08-24 Focusing on the street as a socio spatial catalyst this book fosters a comprehensive conversation on the past present and future of streets and public space While the street is commonly associated with urban form or the metropolitan context of social dynamics and design practices this interdisciplinary anthology highlights that urban design challenges are global multidimensional and transcalar This critical survey of the city collects a broad scope of practices and phenomena in urbanism architecture activism and participatory design Individual chapters examine the histories theories geographies architecture and design of streets offering essential reading for scholars professionals students and enthusiasts of urbanism urban design architecture landscape architecture planning geography sociology anthropology cultural studies economics and the arts Over 50 chapters authored by an international and diverse group of leading academics theorists historians and practitioners expand the

discourse on streets and public space

### **Energy and Environmental Issues for the Practising Architect** Ian C.

Ward, 2004 Producing an energy efficient and environmentally friendly building can be a daunting task for the every day architect who may only be commissioned infrequently to produce such a building This book aims to remove the mystery and complexity from this process by helping the architect understand and put into practice the many issues involved in generating an energy efficient and environmentally friendly design

### Architecture's Model Environments Lisa

Moffitt, 2023-02-20 Seen through the distilling lens of the architectural model Architecture s Model Environments is a novel and far reaching exploration of the many dialogues buildings have with their environmental surroundings Expanding on histories of building technology the book sheds new light on how physical models conventionally understood as engineering experimentation devices enable architectural design speculation The book begins with a catalogue of ten original model prototypes of wind tunnels water tables and filling boxes and is the first of its kind to establish an architectural approach to fabricating such environmental models Subsequent chapters feature three precedent models that have been largely overlooked within the wider oeuvres of their authors French polymath tienne Jules Marey s 1900 2 wind tunnels Hungarian American architects Victor and Alad r Olgyay s 1955 63 thermoheliodon and Scottish chemist and building ventilation expert David Boswell The Ventilator Reid s 1844 test tube convection experiments Moving between historic moments and the present day between case studies and original prototypes the book reveals the potent ability for models as both physical artefacts and mental ideals to reflect prevailing cultural views about the world and to even reshape those views

Fundamentally Architecture s Model Environments illustrates how environmental models reveal design insights across scales from the seam that leaks to the body that feels to the building that mediates to the world that immerses

### **The Architect's**

**Handbook of Professional Practice** American Institute of Architects, 2013-01-11 The definitive guide to architectural practice Business legal and technical trends in architecture are constantly changing The Architect s Handbook of Professional Practice has offered firms the latest guidance on those trends since 1920 The Fifteenth Edition of this indispensable guide features nearly two thirds new content and covers all aspects of contemporary practice including updated material on Small firm practice use of technologies such as BIM and project delivery methods such as IPD and architect led design build Career development and licensure for emerging professionals and state mandated continuing education for established architects Business management topics such as organizational development marketing finance and human resources Research as an integrated aspect of architectural practice featuring such topics as evidence based design and research in a small firm context The Fifteenth Edition of The Architect s Handbook of Professional Practice includes access to a website that contains samples of all AIA Contract Documents in PDF format for Mac and PC computers With comprehensive coverage of contemporary practices in architecture as well as the latest developments and trends in the industry The Architect s Handbook of Professional Practice continues to be the essential reference for every architect who

must meet the challenges of today's marketplace with insight and confidence

*A Handbook on Low-Energy Buildings and District-Energy Systems* L.D. Danny Harvey, 2012-08-21 Winner of Choice Magazine Outstanding Academic Titles for 2007 Buildings account for over one third of global energy use and associated greenhouse gas emissions worldwide Reducing energy use by buildings is therefore an essential part of any strategy to reduce greenhouse gas emissions and thereby lessen the likelihood of potentially catastrophic climate change Bringing together a wealth of hard to obtain information on energy use and energy efficiency in buildings at a level which can be easily digested and applied Danny Harvey offers a comprehensive objective and critical sourcebook on low energy buildings Topics covered include thermal envelopes heating cooling heat pumps HVAC systems hot water lighting solar energy appliances and office equipment embodied energy buildings as systems and community integrated energy systems cogeneration district heating and district cooling The book includes exemplary buildings and techniques from North America Europe and Asia and combines a broad holistic perspective with technical detail in an accessible and insightful manner

Learning Spaces in Africa Ola Uduku, 2018-06-14 With a key UN Sustainable Development Goal for 2030 being to make basic education available to all the world's children Learning Spaces in Africa explores the architectural socio political and economic policy factors that have contributed to school design the main spaces for education and learning in Africa It traces the development of school building design focusing on Western and Southern Africa from its emergence in the 19th century to the present day Uduku's analysis draws attention to the past historic links of schools to development processes from their early 19th century missionary origins to their re emergence as development hubs in the 21st century Learning Spaces in Africa uses this research as a basis to suggest fundamental changes to basic education which respond to new technological advances and constituencies in learning Illustrated case studies describe the use of tablets in refugee community schools hole in the wall learning and shared school community learning spaces This book will be beneficial for students academics and those interested in the history of educational architecture and its effect on social development particularly in Africa and with relevance to countries elsewhere in the emerging world

Proceedings CLIMA 2022 Laure Itard, Lada Hensen-Centnerová, Atze Boerstra, Philomena Bluysen, 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

**Minimal Design Guides** Leo Musk, AI, 2025-01-12 Minimal Design Guides presents a comprehensive approach to transforming limited urban living spaces into functional aesthetically pleasing environments through research based design principles The book addresses the growing challenge of maximizing increasingly compact living areas by focusing on three fundamental pillars spatial



optimization through furniture scaling integrated storage solutions and scientific approaches to layout design This systematic methodology combines architectural principles with environmental psychology to create practical solutions for modern urban dwellers The guide progresses logically from spatial perception fundamentals to detailed implementation strategies incorporating real world case studies from global urban centers It offers precise measurements proportional relationships and proven layout formulas that readers can directly apply to their spaces Particularly noteworthy are the innovative storage solutions adapted from commercial design practices including modular systems and vertical space utilization techniques each supported by technical specifications and cost benefit analyses What sets this guide apart is its evidence based approach combining quantitative spatial analysis with qualitative user experience data The content is presented through clear instructional text accompanied by CAD drawings 3D renderings and detailed floor plans making complex design principles accessible to both professionals and informed homeowners Throughout the book readers find practical exercises measurement guides and implementation checklists that transform theoretical concepts into actionable solutions for small space living

**The Architect's Handbook of Professional Practice** Joseph A. Demkin, American Institute of Architects, 2008-03-24 This updated resource covers all aspects of architectural practice featuring new material of sustainable design managing multiple offices lifelong learning mentoring and team building revised content on programming project management construction contract administration risk management and ethics and coverage of small firm considerations as well as emerging issues such as integrated practice and integrated project delivery Jacket

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