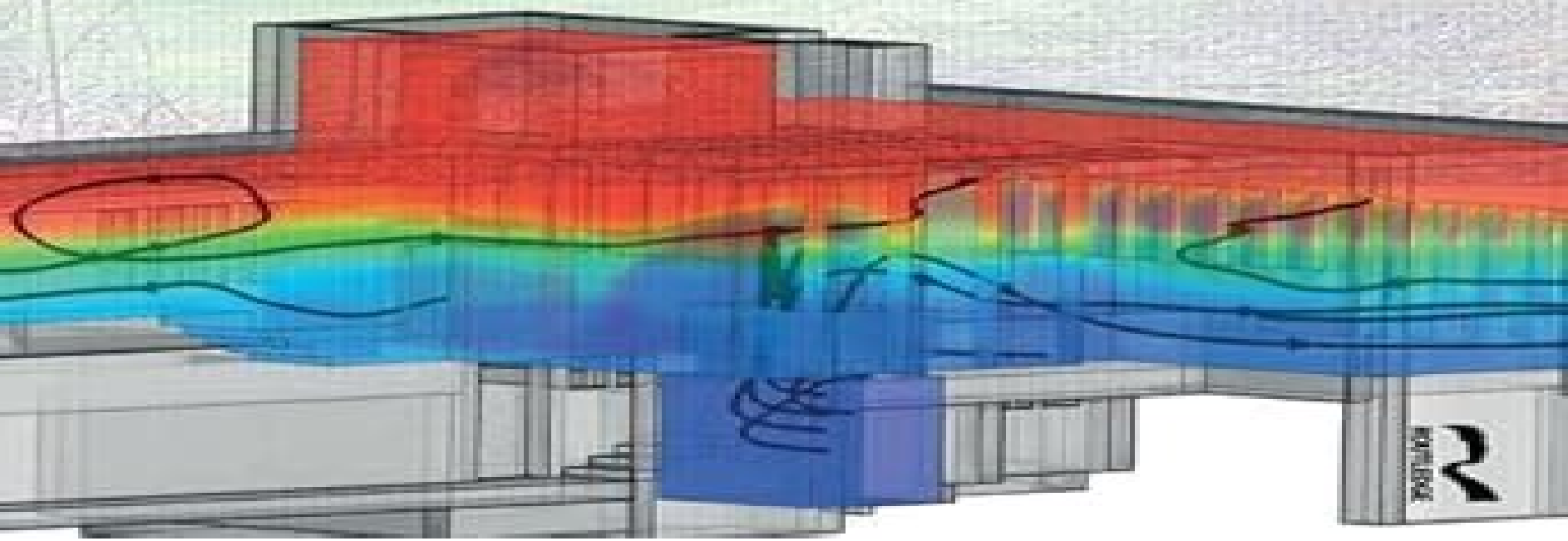


Ulrike Passe and Francine Battaglia

DESIGNING SPACES FOR NATURAL VENTILATION

AN ARCHITECT'S GUIDE



Designing Spaces For Natural Ventilation An Architects Guide

Ulrike Passe, Francine Battaglia



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

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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

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