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Building Ventilation State Mat Santamouris

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Building Ventilation Mat Santamouris, Peter Wouters, 2006-06-01 Ensuring optimum ventilation performance is a vital part of building design Prepared by recognized experts from Europe and the US and published in association with the International Energy Agency's Air Infiltration and Ventilation Centre AIVC this authoritative work provides organized classified and evaluated information on advances in the key areas of building ventilation relevant to all building types Complexities in airflow behaviour climatic influences occupancy patterns and pollutant emission characteristics make selecting the most appropriate ventilation strategy especially difficult Recognizing such complexities the editors bring together expertise on each key issue From components to computer tools this book offers detailed coverage on design analysis and performance and is an important and comprehensive publication in this field Building Ventilation will be an invaluable reference for professionals in the building services industry architects researchers including postgraduate students studying building service engineering and HVAC and anyone with a role in energy efficient building design

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

A Handbook of Sustainable Building Design and Engineering Dejan Mumovic, Mat Santamouris, 2013-06-17 The combined challenges of health comfort climate change and energy security cross the boundaries of traditional building disciplines This authoritative collection focusing mostly on energy and ventilation provides the current and next generation of building engineering professionals with what they need to work closely with many disciplines to meet these challenges A Handbook of Sustainable Building Engineering covers how to design engineer and monitor a building in a manner that minimises the emissions of greenhouse gases how to adapt the environment fabric and services of existing and new buildings to climate change how to improve the environment in and around buildings to provide better health comfort security and productivity and provides crucial expertise on monitoring the performance of buildings once they are occupied The authors explain the principles behind built environment engineering and offer practical guidance through international case studies

Advances in Building Energy Research Mat Santamouris, 2013-07-23 Several high quality scientific journals are published in the area of building energy and indoor outdoor environment however one has been missing Advances in Building Energy Research fills the gap I recommend ABER to all technical libraries research institutes and universities It should also be used

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Cooling Energy Solutions For Buildings And Cities Mat Santamouris, 2019-02-12 In the first book of its kind this volume addresses the problem of the future cooling energy demand the global frame defining the actual and future cooling energy consumption in the building sector Based on the explored inputs and forecasts a model was developed to predict the future cooling energy consumption of both the residential and commercial sector Low energy high performance technological solutions for cooling energy problem in the building and city level will be presented

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

Solar Thermal Technologies for Buildings Matheos Santamouris, 2003 This book includes 10 original contributions from a thematic Workshop organized in Athens covering most of the areas of solar thermal technologies as applied to buildings It focuses on future perspectives for related materials and technologies with strategic importance for passive solar heating

Environmental Design of

Urban Buildings Mat Santamouris, 2013-06-17 This book provides a review of environmental and energy research with respect to urban building projects. It describes how to overcome related challenges in environmental design of urban buildings. The book discusses the passive and active environmental systems within building concepts. Energy Performance of Residential Buildings Mat Santamouris, 2010-09-23 Energy Rating is a crucial consideration in modern building design affirmed by the new EC Directive on the energy performance of buildings. Energy represents a high percentage of the running costs of a building and has a significant impact on the comfort of the occupants. This book represents detailed information on energy rating of residential buildings covering Theoretical and experimental energy rating techniques reviewing the state of the art and offering guidance on the in situ identification of the UA and gA values of buildings. New experimental protocols to evaluate energy performance detailing a flexible new approach based on actual energy consumption. Data are collected using the Billed Energy Protocol BEP and Monitored Energy Protocol MEP. Energy Normalization techniques describing established methods plus a new Climate Severity Index which offers significant benefits to the user. Also included in this book are audit forms and a CD ROM for applying the new rating methodology. The software prepared in Excel is easy to use, can be widely applied using both deterministic and experimental methods and can be adapted to national peculiarities and energy policy criteria. Energy Performance of Residential Buildings offers full and clear treatment of the key issues and will be an invaluable source of information for energy experts, building engineers, architects, physicists, project managers and local authorities. The book stems from the EC funded SAVE project entitled EUROCLASS. Participating institutes included University of Athens Greece, Belgium Building Research Institute Belgium, University of Seville Spain, Royal Institute of Technology Sweden. **Advances in Passive Cooling** Mat Santamouris, 2012-05-16 Following a rapid increase in the use of air conditioning in buildings of all types, the energy demand for powering such devices has become a significant cause for concern. Passive cooling is increasingly being thought of as the best alternative to air conditioning. This book offers the latest knowledge and techniques on passive cooling, enabling building professionals to understand the state of the art and employ relevant new strategies. With separate chapters on comfort, urban microclimate, solar control, ventilation, ground cooling and evaporative and radiative cooling, this authoritative text will also be invaluable for architects, engineers and students working on building physics and low energy design. Advances in Passive Cooling is part of the BEST series edited by Mat Santamouris. The aim of the series is to present the most current high quality theoretical and application oriented material in the field of solar energy and energy efficient buildings. Leading international experts cover the strategies and technologies that form the basis of high performance sustainable buildings crucial to enhancing our built and urban environment.

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