



Heat And Mass Transfer In Building Materials And Structures

Zujian Huang



Heat And Mass Transfer In Building Materials And Structures:

Heat and Mass Transfer in Building Materials and Structures Jack Bartley Chaddock, Branislav Todorovic, 1991 These papers present international research results on building heat and mass transport necessary for energy efficient buildings It contains papers from the Twenty First Symposium of the International Centre for Heat and Mass Transfer 1989 conducted in Yugoslavia

Heat and Mass Transfer Behaviours of Building Materials and Structures M. L. Parra Saldivar, 2005

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

Heat and Mass Transfer in Buildings Keith Moss, 2007 The second edition of this reliable text provides thorough understanding of essential design procedures Updated and extended this invaluable guide continues to resource built

environment students Structure Design and Degradation Mechanisms in Coastal Environments Abdelkarim Ait-Mokhtar, Olivier Millet, 2015-05-04 This book provide a series of designs materials characterization and modeling that will help create safer and stronger structures in coastal areas The authors take a look at the different materials porous heterogeneous concrete the moisture transfers in construction materials as well as the degradation caused by external attacks and put forth systems to monitor the structures or evaluate the performance reliability as well as degradation scenarios of coastal protection systems **Fibrous and Composite Materials for Civil Engineering Applications** R Figueiro, 2011-04-19 The use of fibrous materials in civil engineering both as structural reinforcement and in non structural applications such as geotextiles is an important and interesting development Fibrous and composite materials for civil engineering applications analyses the types and properties of fibrous textile and structures and their applications in reinforcement and civil engineering Part one introduces different types of fibrous textiles and structures Chapters cover the properties of natural and man made fibres and of yarns as well as an overview of textile structures Part two focuses on fibrous material use in concrete reinforcement with chapters on the properties and applications of steel fibre reinforced concrete natural fibre reinforced concrete and the role of fibre reinforcement in mitigating shrinkage cracks In part three the applications of fibrous material based composites in civil engineering are covered Chapters concentrate on production techniques and applications such as reinforcement of internal structures structural health monitoring and textile materials in architectural membranes With its distinguished editor and international team of contributors Fibrous and composite materials for civil engineering applications is a standard reference for fabric and composite manufacturers civil engineers and professionals as well as academics with a research interest in this field Explores the development of fibrous materials in civil engineering both as structural reinforcement and in non structural applications such as geotextiles Key topics include short fibre reinforced concrete natural fibre reinforced concrete and high performance fibre reinforced cementitious composites A standard reference for fabric and composite manufacturers civil engineers and professionals as well as academics with a research interest in this field **Moisture and Buildings** Arianna Brambilla, Alberto Sangiorgio, 2021-05-28 One in three homes on average suffer from excessive dampness and mould proliferation with significant health and economic impacts The combination of new construction methodologies stricter airtightness requirements and the changing social and cultural context that influences the way we live inside buildings has created unprecedented challenges for the built environment In modifying indoor and outdoor environments and the building envelopes that serve as a filter between the two we are changing the physical parameters of the ways in which buildings behave and respond to climatic stimuli Understanding and predicting the way in which buildings and moisture may interact should be an important step in the design process aiming to minimise possible negative long term consequences Understanding and predicting the way in which buildings and moisture may interact is today more than ever essential yet

difficult as the experience of the past has lost its applicability Moisture related issues never have a simple solution since they involve multiple factors including design construction maintenance materials climate and occupation pattern Thus while the topic is attracting growing attention among researchers designers and practitioners the pace with which actual change is occurring is still too slow Moisture and Buildings provides a critical overview of current research knowledge and policy frameworks and presents a comprehensive analysis of the implications of moisture and the importance of accounting for it during the design process It responds to the urgent need for a systematic organization of the existing knowledge to identify research gaps and provide directions for future developments The ultimate goal is to increase awareness of the multifaceted implications of hygrothermal phenomena and promote integrated design processes that lead to healthier and more durable constructions Presents advanced knowledge on hygrothermal processes and their interaction with buildings Integrates the three key areas of moisture transport and its impact on buildings including durability human health and comfort Considers the most useful computational tools for assessing moisture and building interactions Includes a section on the main European American and Australian building codes Explains the risks of mold growth to human health including growth models to assessment methods *Energy Research Abstracts* ,1990

Proceedings of the 8th International Symposium on Heating, Ventilation and Air Conditioning Angui Li,Yingxin Zhu,Yuguo Li,2013-09-30 Proceedings of the 8th International Symposium on Heating Ventilation and Air Conditioning is based on the 8th International Symposium of the same name ISHVAC2013 which took place in Xi an on October 19 21 2013 The conference series was initiated at Tsinghua University in 1991 and has since become the premier international HVAC conference initiated in China playing a significant part in the development of HVAC and indoor environmental research and industry around the world This international conference provided an exclusive opportunity for policy makers designers researchers engineers and managers to share their experience Considering the recent attention on building energy consumption and indoor environments ISHVAC2013 provided a global platform for discussing recent research on and developments in different aspects of HVAC systems and components with a focus on building energy consumption energy efficiency and indoor environments These categories span a broad range of topics and the proceedings provide readers with a good general overview of recent advances in different aspects of HVAC systems and related research As such they offer a unique resource for further research and a valuable source of information for those interested in the subject The proceedings are intended for researchers engineers and graduate students in the fields of Heating Ventilation and Air Conditioning HVAC indoor environments energy systems and building information and management Angui Li works at Xi an University of Architecture and Technology Yingxin Zhu works at Tsinghua University and Yuguo Li works at The University of Hong Kong

Numerical methods for diffusion phenomena in building physics Nathan Mendes,Marx Chhay,Julien Berger,Denys Dutykh,2017-05-19 This book intends to stimulate research in simulation of diffusion problems in building physics by first providing an overview of mathematical models and numerical

techniques such as the finite difference and finite element methods traditionally used in building simulation tools. Then nonconventional methods such as reduced order models, boundary integral approaches and spectral methods are presented which might be considered in the next generation of building energy simulation tools. The advantage of these methods includes the improvement of the numerical solution of diffusion phenomena especially in large domains relevant to building energy performance analysis.

Optimization of Design for Better Structural Capacity Belgasmia, Mourad, 2018-11-16
 Despite the development of advanced methods, models and algorithms, optimization within structural engineering remains a primary method for overcoming potential structural failures. With the overarching goal to improve capacity limit structural damage and assess the structural dynamic response, further improvements to these methods must be entertained. Optimization of Design for Better Structural Capacity is an essential reference source that discusses the advancement and augmentation of optimization designs for better behavior of structure under different types of loads as well as the use of these advanced designs in combination with other methods in civil engineering. Featuring research on topics such as industrial software, geotechnical engineering and systems optimization, this book is ideally designed for architects, professionals, researchers, engineers and academicians seeking coverage on advanced designs for use in civil engineering environments.

Fire Safe Use of Wood in Buildings Andrew Buchanan, Birgit Östman, 2022-07-29
 The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license. Funded by Linneaus University. It provides guidance on the design of timber buildings for fire safety developed within the global network Fire Safe Use of Wood FSUW and with reference to Eurocode 5 and other international codes. It introduces the behaviour of fires in timber buildings and describes strategies for providing safety if unwanted fires occur. It provides guidance on building design to prevent any fires from spreading while maintaining the load bearing capacity of structural timber elements, connections and compartmentation. Also included is information on the reaction to fire of wood products according to different classification systems as well as active measures of fire protection and quality of workmanship and inspection as means of fulfilling fire safety objectives. Presents global guidance on fire safety in timber buildings. Provides a wide perspective covering the whole field of fire safety design. Uses the latest scientific knowledge based on recent analytical and experimental research results. Gives practical examples illustrating the importance of good detailing in building design. Fire Safe Use of Wood in Buildings is ideal for all involved in the fire safety of buildings including architects, engineers, firefighters, educators, regulatory authorities, insurance companies and professionals in the building industry. Feedback on this design guide is welcomed. A website for comments is available at www.fsuw.com.

Application of Bamboo in Building Envelope Zujian Huang, 2019-05-14
 This book offers a comprehensive overview of the use of bamboo in building industry. It systematically demonstrates bamboo's utility in terms of its properties, describing the material properties of typical industrial bamboo products and discussing their performance evaluation and

optimization as building components and in the creation of building envelopes The book also includes examples of the high value utilization of bamboo forest resources Further it examines how building performance may be affected by conditions such as climate Including insights from material science construction design building physics and building climatology the book also provides data obtained from technology and market status investigation laboratory test and the computer simulation This book appeals to scientists and professionals as it introduces and tests various bamboo products demonstrating the advantages and disadvantages for each one The book is also a valuable resource for civil engineers and students interested in this unique plant material and its application in the building industry **Materials for Energy**

Efficiency and Thermal Comfort in Buildings Matthew R Hall, 2010-04-21 Almost half of the total energy produced in the developed world is inefficiently used to heat cool ventilate and control humidity in buildings to meet the increasingly high thermal comfort levels demanded by occupants The utilisation of advanced materials and passive technologies in buildings would substantially reduce the energy demand and improve the environmental impact and carbon footprint of building stock worldwide **Materials for energy efficiency and thermal comfort in buildings** critically reviews the advanced building materials applicable for improving the built environment Part one reviews both fundamental building physics and occupant comfort in buildings from heat and mass transport hygrothermal behaviour and ventilation on to thermal comfort and health and safety requirements Part two details the development of advanced materials and sustainable technologies for application in buildings beginning with a review of lifecycle assessment and environmental profiling of materials The section moves on to review thermal insulation materials materials for heat and moisture control and heat energy storage and passive cooling technologies Part two concludes with coverage of modern methods of construction roofing design and technology and benchmarking of fa ades for optimised building thermal performance Finally Part three reviews the application of advanced materials design and technologies in a range of existing and new building types including domestic commercial and high performance buildings and buildings in hot and tropical climates This book is of particular use to mechanical electrical and HVAC engineers architects and low energy building practitioners worldwide as well as to academics and researchers in the fields of building physics civil and building engineering and materials science Explores improving energy efficiency and thermal comfort through material selection and sustainable technologies Documents the development of advanced materials and sustainable technologies for applications in building design and construction Examines fundamental building physics and occupant comfort in buildings featuring heat and mass transport hygrothermal behaviour and ventilation *Moisture control in buildings* Heinz R. Trechsel, 1994 **SIPRE Report , Moisture Migration in Buildings** M. Lieff, Heinz R. Trechsel, 1982 Structural Studies, Repairs and Maintenance of Heritage Architecture XI C. A. Brebbia, 2009 This volume contains papers presented at the Twelfth International Conference on Structural Studies Repairs and Maintenance of Heritage Architecture The conference provides an ideal forum for professionals in the area to discuss problems and solutions

and exchange opinions and experiences **Proceedings of the 11th International Symposium on Heating, Ventilation and Air Conditioning (ISHVAC 2019)** Zhaojun Wang, Yingxin Zhu, Fang Wang, Peng Wang, Chao Shen, Jing Liu, 2020-03-19

This book presents selected papers from the 11th International Symposium on Heating Ventilation and Air Conditioning ISHVAC 2019 with a focus on HVAC techniques for improving indoor environment quality and the energy efficiency of heating and cooling systems Presenting inspiration for implementing more efficient and safer HVAC systems the book is a valuable resource for academic researchers engineers in industry and government regulators Heat and Mass Transfer Behaviours of Building Materials and Structures ,2003

Heat storage as a means to respond to the requirements for improved energy efficiency motivated this study The objective was to evaluate the impact of thermal energy storage systems in dwellings under Mexican climatic conditions In the first part of this work thermal behaviors of adobe traditional architecture is discussed in the second part a latent heat storage system using phase change materials PCMs is proposed and assessed The high thermal mass structural elements of adobe traditional architecture have been characterized as heat wave modulators Nevertheless the moisture content in these structures also plays a significant role as a means for heat storage and potentially enhancing thermal lag The objective of this part of the study was to assess the scope of existing coupled heat and mass transport models regarding water contained latent heat storage on porous structures The significant contribution of latent heat storage recognized in adobe structures led to the study of a solar thermal storage system using PCMs The objective of this part of the study was twofold 1 Enhance the existing computational models on the Stephan problem by considering the effect of regional variations weather conditions imposed on the boundary conditions 2 Evaluate the impact of the solar thermal system proposed when applied in dwellings in view of regional variations under Mexican weather conditions Solar thermal storage systems independent of the structure offer the possibility to be applied to existing buildings as well as new constructions The proposal is a storage element that constitutes internal blinds in windows The computational model of the Stephan problem was solved with the enthalpy method Simulations were run under different sets of climatic conditions For the first time the main factors for promoting system s optimisation when gathered in a single comparison study provided a more general insight on system s performance Experimental work was also

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