



Enhancing Building Performance Enhancing Building Performance

Kathleen Armour



Enhancing Building Performance Enhancing Building Performance:

Enhancing Building Performance Shauna Mallory-Hill, Wolfgang F. E. Preiser, Christopher G. Watson, 2012-03-05 Building Performance Evaluation BPE informs and enhances the usability and sustainability of building designs with lessons learned from evaluation of building performance throughout the building life cycle from initial planning through occupancy to adaptive re use A key feature of BPE is that it examines design and technical performance of buildings alongside human performance criteria That is it seeks to examine facilities in order to determine whether they will work for the people that will use and occupy them Rigorous BPE helps to improve design practice by providing feedback on the effectiveness of the choices made about the building to ensure that its design is optimised for stakeholders uses The overarching theme for Enhancing Building Performance is to present the next generation of BPE work The book provides an updated systematic approach for BPE as well as chapters written by experts from around the world who demonstrate how to apply BPE to enhance building design Topics covered include evidence based and integrative design processes evaluation methods and tools and education and knowledge transfer In addition case studies provide specific examples of how BPE has been used to study such things as the impact of workplace design on human productivity and innovation Written primarily for design professionals and facility managers who wish to use BPE to deliver improved building performance that is responsive to the needs of stakeholders Enhancing Building Performance will also be of great value to researchers and students across a range of architecture and construction disciplines

Enhancing Building Performance Shauna Mallory-Hill, Wolfgang F. E. Preiser, Christopher G. Watson, 2011-12-21 Building Performance Evaluation BPE informs and enhances the usability and sustainability of building designs with lessons learned from evaluation of building performance throughout the building life cycle from initial planning through occupancy to adaptive re use A key feature of BPE is that it examines design and technical performance of buildings alongside human performance criteria That is it seeks to examine facilities in order to determine whether they will work for the people that will use and occupy them Rigorous BPE helps to improve design practice by providing feedback on the effectiveness of the choices made about the building to ensure that its design is optimised for stakeholders uses The overarching theme for Enhancing Building Performance is to present the next generation of BPE work The book provides an updated systematic approach for BPE as well as chapters written by experts from around the world who demonstrate how to apply BPE to enhance building design Topics covered include evidence based and integrative design processes evaluation methods and tools and education and knowledge transfer In addition case studies provide specific examples of how BPE has been used to study such things as the impact of workplace design on human productivity and innovation Written primarily for design professionals and facility managers who wish to use BPE to deliver improved building performance that is responsive to the needs of stakeholders Enhancing Building Performance will also be of great value to researchers and students across a range of architecture and construction disciplines

PCM-Enhanced Building

Components Jan Košný, 2015-05-07 Presenting an overview of the use of Phase Change Materials PCMs within buildings this book discusses the performance of PCM enhanced building envelopes It reviews the most common PCMs suitable for building applications and discusses PCM encapsulation and packaging methods In addition to this it examines a range of PCM enhanced building products in the process of development as well as examples of whole building scale field demonstrations Further chapters discuss experimental and theoretical analyses including available software to determine dynamic thermal and energy performance characteristics of building enclosure components containing PCMs and present different laboratory and field testing methods Finally a wide range of PCM building products are presented which are commercially available worldwide This book is intended for students and researchers of mechanical architectural and civil engineering and postgraduate students of energy analysis dynamic design of building structures and dynamic testing procedures It also provides a useful resource for professionals involved in architectural and mechanical civil engineering design thermal testing and PCM manufacturing

Building Performance Evaluation Wolfgang F.E. Preiser, Andrea E. Hardy, Ulrich Schramm, 2017-08-30 The main aim of this book is to present an intriguing retrospective of Building Performance Evaluation BPE as it evolved from Post Occupancy Evaluation POE over the past 25 years On one hand this is done by updating original authors chapter content of Building Evaluation the first edition published in 1989 That in turn is augmented by an orientation toward current and future practice on the other including new authors who are engaged in ongoing cutting edge projects Therefore individual methodology oriented chapters covering the fundamental principles of POE and BPE go along with major thematic chapters topics of which like sustainability or integration of new technologies are addressed in a diversity of case studies from around the globe Research methodologies and framework of POEs continue to evolve POEs are one step on the larger scale of BPE in understanding how buildings function after they are occupied This resource helps architects building owners and facility managers understand the implications and reactions to the facilities that they designed built and or commissioned By considering the whole process from conception to future uses of the building there can be a more holistic approach to the planning programming design construction occupancy and future adaptability of the structure This book is dedicated to first editor Wolfgang F E Preiser who passed away during the process of editing and reviewing chapters of this volume

Building Performance Simulation for Design and Operation Jan L.M. Hensen, Roberto Lamberts, 2019-04-24 When used appropriately building performance simulation has the potential to reduce the environmental impact of the built environment to improve indoor quality and productivity as well as to facilitate future innovation and technological progress in construction Since publication of the first edition of Building Performance Simulation for Design and Operation the discussion has shifted from a focus on software features to a new agenda which centres on the effectiveness of building performance simulation in building life cycle processes This new edition provides a unique and comprehensive overview of building performance simulation for the complete building life cycle from conception to demolition and from a single building

to district level It contains new chapters on building information modelling occupant behaviour modelling urban physics modelling urban building energy modelling and renewable energy systems modelling This new edition keeps the same chapter structure throughout including learning objectives chapter summaries and assignments Moreover the book Provides unique insights into the techniques of building performance modelling and simulation and their application to performance based design and operation of buildings and the systems which service them Provides readers with the essential concepts of computational support of performance based design and operation Provides examples of how to use building simulation techniques for practical design management and operation their limitations and future direction It is primarily intended for building and systems designers and operators and postgraduate architectural environmental or mechanical engineering students

Advances in Informatics and Computing in Civil and Construction Engineering Ivan Mutis,Timo Hartmann,2018-10-08 This proceedings volume chronicles the papers presented at the 35th CIB W78 2018 Conference IT in Design Construction and Management held in Chicago IL USA in October 2018 The theme of the conference focused on fostering encouraging and promoting research and development in the application of integrated information technology IT throughout the life cycle of the design construction and occupancy of buildings and related facilities The CIB International Council for Research and Innovation in Building Construction was established in 1953 as an association whose objectives were to stimulate and facilitate international cooperation and information exchange between governmental research institutes in the building and construction sector with an emphasis on those institutes engaged in technical fields of research The conference brought together more than 200 scholars from 40 countries who presented the innovative concepts and methods featured in this collection of papers

Design Strategies for Efficient and Sustainable Building Facilities González-Lezcano, Roberto Alonso,Sansaniwal, Sunil Kumar,2024-08-05 Despite the growing emphasis on energy efficiency in building design our indoor environments often fall short of providing optimal conditions for health and well being Indoor air quality temperature and lighting levels play crucial roles in occupant health yet they are frequently overlooked in building practices This oversight leads to environments that can harm health contributing to respiratory problems allergies and reduced productivity Design Strategies for Efficient and Sustainable Building Facilities offers a comprehensive solution We delve into recent advances in building design construction and operation that prioritize energy efficiency and occupant health By incorporating intelligent sensors automation systems and renewable energy sources like solar and wind power buildings can be transformed into healthy sustainable spaces that promote well being This book is tailored for researchers professionals university professors and master s and doctoral students who seek to advance sustainable building practices

BREEAM Olubusayo Aina, BREEAM Building Research Establishment Environmental Assessment Method is a leading and internationally recognized sustainability assessment method for evaluating the environmental performance of buildings Developed in the United Kingdom in 1990 by the Building Research Establishment BRE BREEAM provides a comprehensive

framework for assessing rating and certifying the sustainability of buildings across various categories These categories include energy usage water efficiency materials selection waste management indoor environmental quality and innovation in design The BREEAM assessment was designed to help reduce the negative environmental impact of buildings by promoting sustainable practices and encouraging the construction of environmentally responsible buildings It offers a clear and measurable way to assess a building s environmental impact and sustainability performance throughout its lifecycle from design to construction and operation

Heat Transfer Enhancement Techniques Ashwani Kumar,Nitesh Dutt,Mukesh Kumar Awasthi,2024-11-18 This comprehensive guide explores the latest heat transfer enhancement techniques and provides the knowledge and insights required to tackle present and future challenges associated with heat dissipation making it an essential resource for researchers engineers and professionals in the field In today s rapidly evolving world where technological advancements are driving industries forward the need for innovative solutions for heat transfer and dissipation challenges is becoming increasingly critical This book serves as a comprehensive guide that explores the latest heat transfer enhancement techniques and their potential to inspire the development of new devices and technologies By delving into this subject matter the book aims to empower researchers engineers and professionals in the field with the knowledge and insights required to tackle the present and future challenges associated with heat dissipation It provides a roadmap for pushing the boundaries of traditional thinking and fostering innovation in the field Heat Transfer Enhancement Techniques Thermal Performance Optimization and Applications will be helpful to readers in presenting the basic and advanced technological developments of heat transfer enhancement techniques Each chapter will cover a specific problem with future scope to further extend this research This book contains new methodologies models techniques and applications as well as fundamental knowledge of heat transfer techniques

The Mirror World Michael Lawson,2024-11-18 Experience a Revolutionary Journey into the World of Digital Twins In the digital age s ever evolving landscape a groundbreaking concept is reshaping industries Digital Twins Journey into the heart of this transformative technology with The Mirror World Harnessing the Power of Digital Twins and discover how virtual replicas of physical assets revolutionize our approach to innovation and efficiency Enter a world where the boundaries between the physical and digital blur offering unparalleled opportunities across diverse sectors From manufacturing marvels and healthcare revolutions to smart city planning and automotive advancements this comprehensive guide unveils the potential of digital twins to enhance efficiency and empower decision making for a brighter more sustainable future Imagine transforming patient care with tailor made medical solutions or redefining urban infrastructures to enrich our daily lives Visualize enhanced vehicle safety mechanisms that redefine transportation as we know it In these pages familiarity with the nuances of digital twin technology is within your grasp and the implications are boundless Venture further to explore success stories and anticipate future trends gaining insights into overcoming common challenges and leveraging cloud computing synergies Designed for innovators business leaders and

curious minds alike this book provides the knowledge and frameworks to adopt digital twin technology effectively Are you ready to engage with a technology that promises to reshape how we interact with the world Equip yourself with the strategies and insights to lead in this digital transformation Join us in exploring a visionary future where digital twins unlock capabilities previously deemed impossible propelling industries into new realms of possibility

Creating Capacity and Capability: Embracing Advanced Technologies and Innovations for Sustainable Future in Building Education and Practice Monty Sutrisna, Mostafa Babaeian Jelodar, Niluka Domingo, An Le, Ravindu Kahandawa, 2025-07-19 This three volume book is the proceeding of the 46th Australasian Universities Building Education Association AUBEA 2023 Conference which brings together papers on construction and built environment education and practice This particular conference theme Creating Capacity and Capability Embracing Advanced Technologies and Innovations for Sustainable Future in Building Education and Practice is closely related to a flagship national research programme funded by the Government of New Zealand known as the CanConstructNZ research programme aiming to balance the capacity and capability in the construction industry and the national pipeline of construction projects The capacity and capability of our construction industry in fulfilling the construction needs of the whole nation are reflected in the national pipeline of construction projects and have long been recognised as one of the main challenges facing the construction sector The practices and education of building and construction play an important role in determining the capacity and capability of the construction industry Within the context of achieving sustainable future and embracing advanced technologies to create capacity and capability in the construction sector various concepts research and innovative development have emerged and taken place This particular conference theme has facilitated more in depth discourses and discussions on the latest ideas and innovation within the building and construction education and practice not only from the Australasian region but also from the wider international community including the USA the UK Brazil South Africa Nigeria China and Sri Lanka The contents of this book will be of interest to academic researchers industry professionals and policy makers alike

Digital Twins for Smart Metabolic Circular Cities Simon Elias Bibri, Tan Yigitcanlar, Jeffrey Huang, 2025-05-29 Digital Twins for Smart Metabolic Circular Cities Innovations in Planning and Climate Resilience explores the advanced convergence of smart city technologies digital twin applications smart urban metabolism and circular economy principles This comprehensive resource offers insights into sustainable urban practices and innovative approaches to address the multifaceted challenges posed by rapid urbanization environmental degradation and climate change In a rapidly changing world this book provides a detailed understanding of how digital twin technologies and smart urban metabolism frameworks can be applied to foster sustainable urban development This holistic perspective bridges urban planning environmental sustainability and the transformative potential of digital twins The book equips readers with practical insights and solutions to navigate contemporary urban development complexities It is an invaluable resource for urban planners environmental scientists policymakers and technology experts

interested in sustainable practices Through real world applications foundational theory and forward thinking strategies it empowers readers with the knowledge to address pressing environmental and infrastructural challenges associated with the future of smart cities Utilizes practical insights and case studies to demonstrate the application of digital twins geospatial mapping tools and smart urban metabolism frameworks in real world scenarios Offers a comprehensive understanding of the potential benefits and challenges associated with the integration of digital twin and circular metabolism platforms aiding informed decision making for sustainable policies Focuses on circular economy principles providing actionable strategies for minimizing waste optimizing resource usage and fostering sustainable practices ICSDEMS 2019 Seyed Sattar

Emamian, Timothy O. Adekunle, Utaberta Nangkula, Mokhtar Awang, 2020-08-18 This book gathers selected papers from the International Conference on Sustainable Design Engineering Management and Sciences ICSDEMS 2019 held in Kuala Lumpur Malaysia It highlights recent advances in civil engineering and sustainability bringing together researchers and professionals to address the latest most relevant issues in these areas *Intelligent Systems in Buildings* Rand H.M.

Agha, 2019-10-29 Although many researchers believe that intelligent systems IS can improve building performance the potential of such systems has not yet been fully recognized with regards to the traditional courtyard house TCHT Such research is important given the role of adding IS to TCHTs due to the nature of intelligent systems and the priority of their needs and building considerations As such one must consider many interrelated aspects that can enhance courtyard house performance in order to fulfil occupants needs This book identifies the key features of the traditional courtyard house and shows that a detailed knowledge of the features and capabilities of intelligent systems is an important aspect in the decision making process in order to enhance the performance of courtyard houses **Artificial Intelligence in**

Performance-Driven Design Narjes Abbasabadi, Mehdi Ashayeri, 2024-04-17 **ARTIFICIAL INTELLIGENCE IN PERFORMANCE DRIVEN DESIGN** A definitive interdisciplinary reference to using artificial intelligence technology and data driven methodologies for sustainable design Artificial Intelligence in Performance Driven Design Theories Methods and Tools explores the application of artificial intelligence AI specifically machine learning ML for performance modeling within the built environment This work develops the theoretical foundations and methodological frameworks for utilizing AI ML with an emphasis on multi scale modeling encompassing energy flows environmental quality and human systems The book examines relevant practices case studies and computational tools that harness AI s capabilities in modeling frameworks enhancing the efficiency accuracy and integration of physics based simulation optimization and automation processes Furthermore it highlights the integration of intelligent systems and digital twins throughout the lifecycle of the built environment to enhance our understanding and management of these complex environments This book also Incorporates emerging technologies into practical ideas to improve performance analysis and sustainable design Presents data driven methodologies and technologies that integrate into modeling and design platforms Shares valuable insights and tools for developing decarbonization

pathways in urban buildings Includes contributions from expert researchers and educators across a range of related fields Artificial Intelligence in Performance Driven Design is ideal for architects engineers planners and researchers involved in sustainable design and the built environment It s also of interest to students of architecture building science and technology urban design and planning environmental engineering and computer science and engineering

Heritage Building Conservation Mohamed Marzouk,2023-08-21 This book provides a holistic perspective on the sustainable conservation of heritage buildings through outlining the factors that influence the preservation operational performance and maintainability of heritage buildings and the application of new methodologies and technologies Using real cases from Egypt a country which comprises a vast number of unique heritage structures each of which is deteriorating at its own pace this book presents a systematic data based approach to manage aging and deteriorating heritage assets in a cost effective way The authors initially provide an overview and history of conservation and maintenance work as well as the current codes and standards that regulate the preservation of these buildings Further chapters then cover The technology used to digitally document heritage buildings including LIDAR photogrammetry Heritage Building Information Modelling HBIM and Virtual Reality VR technologies Introducing a Maintainability Index of Heritage Buildings MIHB to support the decision making and prioritization process for the maintenance of heritage buildings The adaptive reuse of heritage buildings Modelling embodied and operational energy performance Using Chatbot and Blockchain technology to support the management and preservation of heritage buildings Ultimately this book presents a useful tool for use in heritage management and highlights how the reusability of heritage buildings is critical to the creation and survival of sustainable communities It will be useful reading for researchers architects engineers and especially those involved in the management of heritage buildings

Design-Tech: Building Science for Architects Jason Alread,Thomas Leslie,Rob Whitehead,2025-03-19 The third edition of Design Tech provides an indispensable holistic resource for integrating building technologies into critically designed performance based architectural projects The book s format follows the developmental stages of a typical architectural project it provides a step by step process for addressing and integrating building sciences from first principles of human comfort materials structures and environmental systems to advanced construction systems and measures of building performance Short chapters incorporate easy to understand information with hundreds of useful illustrations tables and references that explain the why as well as the how of building science The content focuses on what designers need to know in the studio to create sustainably designed integrated buildings and it prepares them for future discussions with engineers contractors and consultants The updated format builds a coherent framework for integrated project design studio development necessary for all contemporary accredited schools of architecture Chapters build upon critical project information from schematics toward technical integration New chapters emphasize performance based design strategies including sustainable design values critical schematic planning enhanced building envelope design strategies and advanced performance systems Enhanced

visualization of schematic design strategies helps explain sustainable design standards code compliance and structural schematics and throughout the third edition focuses on contemporary issues such as embodied carbon heavy timber construction life cycle costs and long term performance This will be a must read for all architecture students looking for an accessible guide to building science

Cost-Effective Energy-Efficient Methods for Refurbishment and Retrofitting of Buildings F. Pacheco-Torgal, Claes-Göran Granqvist, Giuseppe Peter Vanoli, Nicola Bianco, Jarek Kurnitski, 2025-01-11 Cost Effective Energy Efficient Methods for Refurbishment and Retrofitting of Buildings Materials Technologies Optimization and Case Studies provides up to date knowledge on this important research field Divided over three key parts the book s chapters cover materials and innovative technologies optimization strategies and actual case study applications that highlight the impact of different climatic conditions social factors and the economic specifications of each retrofit process Emphasis is placed on cost efficiency which is key in any energy retrofit process Taking into consideration key changes in the Energy Performance of Buildings Directive EPBD and the European Union Green Deal on Refurbishment and Renovation this book will be a valuable reference resource for materials scientists architects civil engineers and all those working on cost effective and energy efficient retrofitting and building refurbishment Discusses cost effective energy efficient methods for the refurbishment of existing buildings using state of the art technologies Includes detailed case studies that explain various methods and Net Zero Energy Explains optimal analysis and prioritization of cost effective strategies

Global Corporate Workplaces Martin Hodulak, 2016-11-16 This book is about the currently evolving global standardization of corporate workplace models and the challenges this poses for their implementation in a local context In recent years multinational corporations were increasingly engaged in the development of standardized global workplace models For their implementation and feasibility it is decisive as how these standards fit the diverse regional workplace cultures This topic was pursued in the course of a research project comparing established workplaces in Germany USA and Japan against global workplace standards of multinational corporations The analysis confirmed the expected differences among local workplaces and on the other hand a predominant mainstream among global corporate workplace standards Conspicuous however are the fundamental differences between local models and corporate standards For the implementation of global standards in local context this implies multiple challenges on cultural organizational and spatial level The analysis findings provide information for assessing current projects and pinpointing optimization measures The analysis framework further provides a tool to uncover and assess needs and restrictions for the development of future workplace models

Web Based Enterprise Energy and Building Automation Systems Barney L. Capehart, Lynne C. Capehart, 2020-12-18 The capability and use of IT and web based energy information and control systems has expanded from single facilities to multiple facilities and organizations with buildings located throughout the world This book answers the question of how to take the mass of available data and extract from it simple and useful information which can determine what actions to take to improve efficiency and productivity of

commercial institutional and industrial facilities The book also provides insight into the areas of advanced applications for web based EIS and ECS systems and the integration of IT web based information and control systems with existing BAS systems

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