

# **Energy Efficient Buildings**

F. Pacheco-Torgal, Claes-Göran Granqvist, Bjørn Peter Jelle, Giuseppe Peter Vanoli, Nicola Bianco, Jarek Kurnitski

# **Energy Efficient Buildings:**

Energy Efficient Buildings Zhiqiang John Zhai, 2022-08-19 Energy Efficient Buildings A complete and authoritative discussion of the fundamentals of designing and engineering energy efficient buildings In Energy Efficient Buildings Fundamentals of Building Science and Thermal Systems distinguished engineer and architect Dr John Zhai delivers a comprehensive exploration of the design and engineering fundamentals of energy efficient buildings The book introduces the fundamental knowledge calculations analyses and principles used by designers of energy efficient buildings and addresses all essential elements of the discipline An essential guide for students studying civil architectural mechanical and electrical engineering with a focus on energy building systems and building science the book provides practical in class materials examples and actual design practices as well as end of chapter questions with solutions and sample group projects Readers will find A thorough introduction to the cross disciplinary approach to the design of energy efficient buildings Comprehensive explorations of all critical elements of energy efficient building design including standards and codes psychometrics microclimate thermal comfort indoor air quality HVAC systems and more In depth discussions of the foundational knowledge calculations analysis and principles needed to design energy efficient buildings Practical in class examples and end of chapter questions with solutions for students and design guidance and sample group projects for use in course lectures and actual design practices Perfect for graduate and advanced undergraduate students studying building environmental systems building systems in construction and mechanical and electrical systems in construction Energy Efficient Buildings Fundamentals of Building Science and Thermal Systems will also earn a place in the libraries of practicing civil architectural and mechanical engineers Energy-efficient building design in Southeast Europe Vladimir Jovanović, 2019-03-28 The aim of this textbook is to improve conventional building design in Southeast Europe This is done with proposing conceptual guidelines for designing energy efficient buildings for different geographic regions of Serbia The focus is on climate appropriate design of building envelopes To adress sustainability economical environmental and social aspects are evaluated The body is divided into three main chapters traditional houses the existing housing stock and design patterns for future buildings The conclusions and the methodology can be applied in the rest of Southeast Europe since Serbia has a unique position in the middle of the region covering different geographical areas that spread far out of Serbia's borders

Efficient Buildings, Communities, and Urban Centers Moncef Krarti, 2018-03-27 Optimal Design and Retrofit of Energy Efficient Buildings Communities and Urban Centers presents current techniques and technologies for energy efficiency in buildings Cases introduce and demonstrate applications in both the design of new buildings and retrofit of existing structures The book begins with an introduction that includes energy consumption statistics building energy efficiency codes and standards and labels from around the world It then highlights the need for integrated and comprehensive energy analysis

approaches Subsequent sections present an overview of advanced energy efficiency technologies for buildings including dynamic insulation materials phase change materials LED lighting and daylight controls Life Cycle Analysis and more This book provides researchers and professionals with a coherent set of tools and techniques for enhancing energy efficiency in new and existing buildings The case studies presented help practitioners implement the techniques and technologies in their own projects Introduces a holistic analysis approach to energy efficiency for buildings using the concept of energy productivity Provides coverage of individual buildings communities and urban centers Includes both the design of new buildings and retrofitting of existing structures to improve energy efficiency Describes state of the art energy efficiency technologies Presents several cases studies and examples that illustrate the analysis techniques and impact of energy efficiency technologies and controls Energy Efficient Building Construction in Florida Craig R. Miller, James Richard Sullivan, Sherry Ahrentzen, Shimberg Center for Housing Studies, University of Florida. Program for Resource Efficient Communities.2012 Sustainability through Energy-Efficient Buildings Amritanshu Shukla, Atul Sharma, 2018-03-20 The book covers chapters ranging from introduction to recent technological challenges case studies of energy efficient buildings with policy and awareness issues fundamentals and present status along with research updates and future aspects on topics focusing on energy efficient construction materials Provides comprehensive information on energy efficient buildings including policy and energy audit aspects with case studies Examines application of PCMs in passive heating and cooling in buildings role of active TES and energy saving potential Energy Efficient Buildings with Solar and Geothermal Resources Ursula Eicker, 2014-02-06 A modern and unique perspective on solar and geothermal technologies for heating and cooling buildings This book will have a broad appeal reaching practising engineers in the industry as well as students With introductory sections for each technology described material includes chapters on geothermal energy use for the heating and cooling of buildings a chapter on electrically driven heat pumps chillers material on night radiative cooling photovoltaic thermal collectors temperature modelling and thin film photovoltaic modelling Includes general introductory sections for each technology with market potential and applications Covers an increasingly important component of energy courses Considers a broad range of alternative renewable energy supplies relevant to the building sector such as geothermal energy with heat pump With a special focus on solar cooling provides detailed physical models of all technologies and example calculations Unique in covering the fundamentals of meteorological modelling Energy Efficient Buildings Eng Hwa Yap, 2017-01-18 This book discusses energy efficient buildings and the role they play in our efforts to address climate change energy consumption and greenhouse gas emissions by considering buildings and the construction sector s unique position along a critical path to decarbonisation from a multi perspective and holistic viewpoint Topics covered in the book range from daylighting building topology comparison building envelope design zero energy homes in hot arid regions life cycle considerations and energy efficiency analysis to managing energy demand through equipment selection Each chapter

addresses an important aspect of energy efficient building and serves as a vital building block towards constructing a timely and relevant body of knowledge in energy efficient buildings Energy-Efficient Electrical Systems for Buildings Moncef Krarti, 2017-03-03 Energy Efficient Electrical Systems for Buildings offers a systematic and practical analysis and design approaches for electrical distribution and utilization systems in buildings In addition to meeting the minimal safety requirements set by the National Electrical Code NEC the design approach consider the life cycle cost analysis of designing energy efficient electrical distribution systems as well as integrating renewable energy technologies into both residential and commercial buildings The book first provides a general overview of basic power systems commonly available in buildings Then detailed discussions of various components of typical building electrical distribution system are outlined through several chapters including transformers protection devices conductors and conduits power and lighting panels and motor control centers The book includes several illustrations and numerous examples and analysis exercises are included along with detailed design examples Building Services Design for Energy Efficient Buildings Paul Tymkow, Savvas Tassou, Maria Kolokotroni, Hussam Jouhara, 2013-07-18 The role and influence of building services engineers is undergoing rapid change and is pivotal to achieving low carbon buildings However textbooks in the field have largely focused on the detailed technicalities of HVAC systems often with little wider context This book addresses that need by embracing a contemporary understanding of energy efficiency imperatives together with a strategic approach to the key design issues impacting upon carbon performance in a concise manner The key conceptual design issues for planning the principal systems that influence energy efficiency are examined in detail In addition the following issues are addressed in turn Background issues for sustainability and the design process Developing a strategic approach to energy efficient design How to undertake load assessments System comparison and selection Space planning for services Post occupancy evaluation of completed building services In order to deliver sustainable buildings a new perspective is needed amongst building and services engineering designers from the outset of the conceptual design stage and throughout the whole design process In this book students and practitioners alike will find the ideal introduction to this new approach **Design of Energy-Efficient Buildings** Sassan Mohasseb, 2020 Nowadays the energy crisis is one of the controversial issues around the world Regarding the fact that the largest energy end use in the world belongs to the construction and residential sector it seems necessary to analyze the energy flow in the buildings The most sustainable energy design technique is to conserve energy as much as possible There are various methods to reduce the use of conventional energy from fossil fuels to meet the energy requirement for the building Various strategies including photovoltaic thermal systems and insulation systems with the aim of minimizing building energy in different climate conditions Cold weather Hot weather were presented and assessed in the first chapter A comprehensive work was carried out to investigate the effect of adding nanoparticles as concrete additives on both pore structure and thermophysical properties of the concrete at different ages Besides the behavioral models using Genetic

Algorithm GA programming were developed to describe the time dependent behavioral characteristics of nanoparticle blended concrete samples in various compressive and tensile stress states Chapter 3 deals with the traditional energy saving techniques to highlight the potential of learning from traditional architecture and adopting their experiences to fulfill modern expectations In this regard Iranian classical architecture particularly at hot arid climate is taken into account On the other hand geothermal energy as one of the most significant alternative sources of thermal and electrical energy have been discussed To address the growing demand of power generation and its related challenges of the existing electrical power grid Smart Grid SG systems comes as a solution that lays in taking the world forward to reach energy independence and environmentally sustainable economic growth The final chapter provides various information about the smart grid systems and the efficiency of such systems is analyzed through a detailed case study Energy-Efficient Building Systems Lal Jayamaha, 2006-12-11 Proven Strategies and Solutions for Reducing Energy Consumption Property and facility managers can turn to Energy Efficient Building Systems as a one stop guide to operating and maintaining commercial building systems at peak efficiency Designed to help reduce energy costs and meet environmental standards this state of the art productivity tool contains fully illustrated real world examples of successful green building projects that have achieved significant energy saving results From energy management and auditing HVAC systems cooling towers and pumping systems to lighting electrical systems automation and building envelope this expert resource takes readers step by step through procedures for getting optimal performance from every building system For each system the book presents the latest methods for improving efficiency identifying promising new solutions evaluating their feasibility and estimating actual savings Comprehensive and authoritative Energy Efficient Building Systems enables building professionals to Get an in depth understanding of the principles of each building system Select the most efficient systems for any nonresidential building Maximize energy efficiency with practical strategies and solutions Utilize hands on methods for evaluating feasibility and estimating savings Review real world examples of successful green building projects Inside This Cost Saving Energy Guide Energy Management and Energy Auditing Air Conditioning and Central Chiller Systems Boilers and Heating Systems Pumping Systems Cooling Towers Air Handling and Distribution Systems Lighting Systems Building Electrical Systems Building Automation Systems Building Envelope Passive House Design Gonzalo Roberto, Rainer Vallentin, 2014-06 The passive house standard is developing more and more into the international key currency of energy efficient construction Passive houses are being erected in almost all parts of the world and for all types of users Plus energy buildings and entire zero energy districts show that the passive house standard is also a sound basis for advanced efficiency strategies At the same time many architects are unsure about the specifics What do passive houses really deliver and what errors need to be avoided during planning The book Passive House Design gives readers confidence in dealing with the passive house standard from the very first design draft It shows how much scope for design there is in passive houses and explains design strategies that lead to better passive

buildings Detailed documentations of both residential and non residential buildings illustrate how design construction and building technology combine in passive houses Chapters on building physics building services engineering and energy balancing provide the required detailed knowledge for being able to implement your own passive house projects

Energy-Efficient HVAC Design Javad Khazaii, 2014-10-17 This book provides readers with essential knowledge enabling the successful design of today s new energy efficient HVAC systems. The author introduces important concepts such as Knowledge Categorization Performance Based Design Standards and Quantification of Uncertainty in Energy Modeling for Buildings Pivotal topics that all HVAC and architectural engineers must master in order to navigate the green building renaissance are given focused attention including the role of renewables air quality automatic controls and thermal comfort Relevant ASHRAE standards as well as sustainability scoring systems such as BREEAM HQE LEED and CASBEE are explained in depth Armed with the material contained in this practical reference students and practitioners alike will become more effective and prepared for engineering success Energy Efficient Buildings ,19?? **Building Services and Energy Efficient Buildings** Dirk Bohne, 2023-07-12 The completely revised basic work presents itself at the state of the art The numerous explanations on sustainable building systems are brought together in the new chapter Energy Concepts The technical content is condensed according to the facts and contexts relevant to architects and civil engineers The extensive illustration section with detailed drawings for pictorial commentary on the text has been revised and updated The Bean thus remains an indispensable basic work for keeping pace with the dynamic technological development the increasing demands for comfort and the requirements for an economical and environmentally friendly use of energy in technical building

Sustainable Technologies for Energy Efficient Buildings Chandan Swaroop Meena, Ashwani Kumar, Varun Pratap Singh, Aritra Ghosh, 2024-07-24 The text begins by discussing the sustainable buildings energy efficient technologies advanced materials advances in renewable energy for building sector green intelligent infrastructure policies on sustainable infrastructure and life cycle assessment. It further presents design considerations challenges and applications of net zero energy buildings with a global perspective. The book covers renewable energy technologies for energy efficient buildings. This book Discusses the importance of developing new materials for Energy and Heat Transfer Optimization in sustainable buildings and Life Cycle Assessment of Sustainable Building Materials Investigates the city gas system sustainable smart cities infrastructure and Data Mining Techniques in Green Building for Evaluation of energy Cost Grades and Adoption Highlights the development and application Net Zero Energy Buildings Energy Policies and Infrastructure Requirements Building Performance Prediction Optimization and Energy Planning and Thermal Comfort in Buildings Presents renewable energy policies Social Economic and Environmental Issues Associated with Sustainable Buildings and Emerging Trends in Smart Green Building Technologies Covers Energy Efficient Urban Infrastructure Earth Air Heat Exchanger and Retrofitting of existing buildings to achieve energy efficient buildings It is primarily written for senior undergraduates graduate students

and academic researchers in the fields of energy engineering environmental science and engineering materials science mechanical engineering and civil engineering Passive House Design Roberto Gonzalo, Rainer Vallentin, 2014 Green Structures Satyajit Ghosh, Abhinay Dhaka, 2015-07-15 Accessible to undergraduates in civil structural and environmental engineering graduate students and researchers town planners and architects worldwide the content of this book not only comes from courses on energy efficient buildings taught by the authors but also from new and original research This definitive resource has an enduring appeal for all those concerned with green structures as it addresses overarching topics including energy efficiency in buildings siting and microclimate building form extant fabric and fabric of the future renewable energy and green building ratings **Cost-Effective Energy Efficient Building Retrofitting F.** Pacheco-Torgal, Claes-Göran Granqvist, Bjørn Peter Jelle, Giuseppe Peter Vanoli, Nicola Bianco, Jarek Kurnitski, 2017-01-03 Cost Effective Energy Efficient Building Retrofitting Materials Technologies Optimization and Case Studies provides essential knowledge for civil engineers architects and other professionals working in the field of cost effective energy efficient building retrofitting The building sector is responsible for high energy consumption and its global demand is expected to grow as each day there are approximately 200 000 new inhabitants on planet Earth The majority of electric energy will continue to be generated from the combustion of fossil fuels releasing not only carbon dioxide but also methane and nitrous oxide Energy efficiency measures are therefore crucial to reduce greenhouse gas emissions of the building sector Energy efficient building retrofitting needs to not only be technically feasible but also economically viable New building materials and advanced technologies already exist but the knowledge to integrate all active components is still scarce and far from being widespread among building industry stakeholders Emphasizes cost effective methods for the refurbishment of existing buildings presenting 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

Unveiling the Magic of Words: A Report on "Energy Efficient Buildings"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Energy Efficient Buildings**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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