



# Energy Efficient Buildings Architecture, Engineering, and Environment

Dean Hawkes and Wayne Forster

# Energy Efficient Buildings Architecture Engineering And Environment

**A TERI Publication**



## **Energy Efficient Buildings Architecture Engineering And Environment:**

**Energy Efficient Buildings** Dean Hawkes, Wayne Forster, 2002-07-30 An examination of how energy efficiency can be enhanced by integrating advances in architecture and engineering Exploring the evolving relationship between architecture and engineering this book examines the environmental function and performance of buildings in the twenty first century Critical studies of outstanding recent building projects around the world reveal the many innovative ways designers can integrate architecture and engineering to produce buildings that are both attractive and energy efficient **Energy**

**Efficient Buildings** Dean Hawkes, Wayne Forster, 2002-07-30 At the beginning of the twenty first century the debate on the vulnerability of the global environment has given a new significance to the environmental agenda in architecture **A Handbook of Sustainable Building Design and Engineering** Dejan Mumovic, Mat Santamouris, 2018-10-30 The second edition of this authoritative textbook equips students with the tools they will need to tackle the challenges of sustainable building design and engineering The book looks at how to design engineer and monitor energy efficient buildings how to adapt buildings to climate change and how to make buildings healthy comfortable and secure New material for this edition includes sections on environmental masterplanning renewable technologies retrofitting passive house design thermal comfort and indoor air quality With chapters and case studies from a range of international interdisciplinary authors the book is essential reading for students and professionals in building engineering environmental design construction and architecture

**Green Structures** Satyajit Ghosh, Abhinav 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 **A Handbook on Low-Energy Buildings and District-Energy Systems** L.D. Danny Harvey, 2012-08-21 Winner of Choice Magazine Outstanding Academic Titles for 2007 Buildings account for over one third of global energy use and associated greenhouse gas emissions worldwide Reducing energy use by buildings is therefore an essential part of any strategy to reduce greenhouse gas emissions and thereby lessen the likelihood of potentially catastrophic climate change Bringing together a wealth of hard to obtain information on energy use and energy efficiency in buildings at a level which can be easily digested and applied Danny Harvey offers a comprehensive objective and critical sourcebook on low energy buildings Topics covered include thermal envelopes heating cooling heat pumps HVAC systems hot water lighting solar energy appliances and office equipment embodied energy buildings as systems and community integrated energy systems cogeneration district heating and district cooling The book includes exemplary buildings and techniques from North America Europe and Asia and combines a broad holistic perspective with technical

detail in an accessible and insightful manner

### **Building Systems Integration for Enhanced Environmental**

**Performance** Shahin Vassigh, Jason R. Chandler, 2011 Looks at the issues of sustainability and environmental impact in the field of building design and architecture This book addresses sustainability in building design through development of a series of examples presented as three dimensional models of well integrated building systems **Architecture and Energy**

William W. Braham, Daniel Willis, 2013-07-18 Does energy consumption influence architectural style Should more energy efficient buildings look different Can that look be used to explain or enhance their performance Architecture and Energy provides architects and architectural theorists with more durable arguments for environmental design decisions arguments addressing three different scales or aspects of contemporary construction By drawing together essays from the leading experts in the field this book engages with crucial issues in sustainable design such as The larger role of energy in forming the cultural and economic systems in which architecture is conceived constructed and evaluated The different measures and meanings of energy performance and how those measures are realized in buildings The specific ways in which energy use translates into the visible aspects of architectural style Drawing on research from the UK US Europe and Asia the book outlines the problems surrounding energy and architecture and provides the reader with a considered overview of this important topic

### **Energy Efficient Building Design**

Ana-Maria Dabija, 2020-04-11 This book is the result of recent research that deals with the built environment and innovative materials carried out by specialists working in universities and centers of research in different professional fields architecture engineering physics and in an area that spans from the Mediterranean Sea to the Persian Gulf and from South Eastern Europe to the Middle East This book takes the necessity of re shaping the concept of building design in order to transform buildings from large scale energy consumers to energy savers and producers into consideration The book is organized in two parts theory and case studies For the theoretical part we chose from the wide range of sources that provide energy efficient materials and systems the two that seem to be endless the sun and vegetation Their use in building products represents a tool for specialists in the architectural design concept The case studies presented analyze different architectural programs in different climates from new buildings to rehabilitation approaches and from residential architecture to hospitals and sports arenas each case emphasizes the interdisciplinarity of the building design activity in order to help readers gain a better understanding of the complex approach needed for energy efficient building design

### **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

**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

**eWork and eBusiness in Architecture, Engineering and Construction** Ardeshir Mahdavi,Bob Martens,Raimar Scherer,2014-08-21 In the last two decades the biannual ECPPM European Conference on Product and Process Modelling conference series has provided a unique platform for the presentation and discussion of the most recent advances with regard to the ICT Information and Communication Technology applications in the AEC FM Architecture Engineering Construction and Facilities Management domains ECPPM 2014 the 10th European Conference on Product and Process Modelling was hosted by the Department of Building Physics and Building Ecology of the Vienna University of Technology Austria 17 19 September 2014 This book entails a substantial number of high quality contributions that cover a large spectrum of topics pertaining to ICT deployment instances in AEC FM including BIM Building Information Modelling ICT in Civil engineering Infrastructure Human requirements factors Computational decision support Commissioning monitoring occupancy Energy management Ontology data models and IFC Industry Foundation Classes Energy modelling Thermal performance simulation Sustainable buildings Micro climate modelling Model calibration Project construction management Data information management As such eWork and eBusiness in Architecture Engineering and Construction 2014 represents a rich and comprehensive resource for academics and professionals working in the interdisciplinary areas of information technology applications in architecture engineering and construction

eWork and eBusiness in Architecture, Engineering and Construction: ECPPM 2016 Symeon Christodoulou,Raimar Scherer,2017-03-27

eWork and eBusiness in Architecture Engineering and Construction 2016 collects the papers presented at the 11th European Conference on Product Process Modelling ECPPM 2016 Cyprus 7-9 September 2016. The contributions cover complementary thematic areas that hold great promise for the advancement of research and technological development in the modelling of complex engineering systems encompassing a substantial number of high quality contributions on a large spectrum of topics pertaining to ICT deployment instances in AEC FM including Information and Knowledge Management Construction Management Description Logics and Ontology Application in AEC Risk Management 5D nD Modelling Simulation and Augmented Reality Infrastructure Condition Assessment Standardization of Data Structures Regulatory and Legal Aspects Multi Model and distributed Data Management System Identification Industrialized Production Smart Products and Services Interoperability Smart Cities Sustainable Buildings and Urban Environments Collaboration and Teamwork BIM Implementation and Deployment Building Performance Simulation Intelligent Catalogues and Services

**Data-driven BIM for Energy Efficient Building Design** Saeed Banihashemi, Hamed Golizadeh, Farzad Pour Rahimian, 2022-12-16 This research book aims to conceptualise the scale and spectrum of Building Information Modelling BIM and Artificial Intelligence AI approaches in energy efficient building design and to develop its functional solutions with a focus on four crucial aspects of building envelop building layout occupant behaviour and heating ventilation and air conditioning HVAC systems. Drawn from theoretical development on the sustainability informatics and optimisation paradigms in built environment the energy efficient building design will be marked through the power of data and BIM intelligent agents during the design phase. It will be further developed via smart derivatives to reach a harmony in the systematic integration of energy efficient building design solutions a gap that is missed in the extant literature and that this book aims to fill. This approach will inform a vision for future and provide a framework to shape and respond to our built environment and how it transforms the way we design and build. By considering the balance of BIM AI and energy efficient outcomes the future development of buildings will be regenerated in a direction that is sustainable in the long run. This book is essential reading for those in the AEC industry as well as computer scientists.

**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

**Sustainable Building Design** Vidar Lerum, 2015-09-07 A twenty first century renaissance is emerging in architecture After a century of building designs characterized by high energy demand low quality lighting and poor thermal comfort the fundamental questions must be asked again is there a better path to designing the most energy efficient comfortable functional and beautiful buildings for a sustainable future While seeking solutions for the future are there lessons to be learned from the best buildings of the past Sustainable Building Design explores outstanding buildings and building designs of the twenty first century with an emphasis on the artistry of masters of architecture who came before By dissecting and analyzing great public buildings of the nineteenth and twenty first centuries materials techniques and methods are discovered This book presents the reader with clues and suggestions that will reveal the secrets of these buildings and by doing so provides the reader with a thorough understanding of how these architectural masterpieces work Using photographs drawings sections plans and diagrams which are painstakingly redrawn for consistency and clarity based on a wide range of documentation Vidar Lerum compares works of architecture from the nineteenth and twenty first centuries The reader is presented with a careful analysis of each building providing a compelling sourcebook of ideas for students and professional architects alike

*Sustainability in Energy and Buildings* Anne Hakansson, Mattias Höjer, Robert J. Howlett, Lakhmi C Jain, 2013-03-29 This volume contains the proceedings of the Fourth International Conference on Sustainability in Energy and Buildings SEB12 held in Stockholm Sweden and is organized by KTH Royal Institute of Technology Stockholm Sweden in partnership with KES International The International Conference on Sustainability in Energy and Buildings focuses on a broad range of topics relating to sustainability in buildings but also encompassing energy sustainability more widely Following the success of earlier events in the series the 2012 conference includes the themes Sustainability Energy and Buildings and Information and Communication Technology ICT The SEB 12 proceedings include invited participation and paper submissions across a broad range of renewable energy and sustainability related topics relevant to the main theme of Sustainability in Energy and Buildings Applicable areas include technology for renewable energy and sustainability in the built environment optimization and modeling techniques information and communication technology usage behavior and practice including applications

*Daylighting* Peter Tregenza, Michael

Wilson,2013-01-11 This authoritative and multi disciplinary book provides architects lighting specialists and anyone else working daylight into design with all the tools needed to incorporate this most fundamental element of architecture It includes an overview of current practice of daylighting in architecture and urban planning a review of recent research on daylighting and what this means to the practitioner a global vision of architectural lighting which is linked to the climates of the world and which integrates view sunlight diffuse skylight and electric lighting up to date tools for design in practice delivery of information in a variety of ways for interdisciplinary readers graphics mathematics text photographs and in depth illustrations a clear structure eleven chapters covering different aspects of lighting a set of worksheets giving step by step examples of calculations and design procedures for use in practice and a collection of algorithms and equations for reference by specialists and software designers This book should trigger creative thought It recognizes that good lighting design needs both knowledge and imagination

**TERI Energy & Environment Data Diary and Yearbook (TEDDY) 2021/22** A TERI Publication,2022 TERI Energy red denotes warming and blue denotes cooling 5 Decadal means of all India summer monsoon rainfall in percentage departure from mean 6 All India annual mean percentage departures for 1901 2020 based on the 1961 2010 average 7 Sub divisional trends of a seasonal and b monsoon rainfall for 1901 2003 8 Time series of active and break during the monsoon season 9 Cyclone tracks of depressions and cyclonic storms formed during 2021 10 Emission trends across four major CO2 emitters 11 CO2 emissions in MTCO2 in India in comparison to GDP PPP 12 CO2 emissions within subsectors in India 13 Emissions by fuel type in India 14 Comparison of coal cess collected amount transferred to and financed from projects recommended under NCEEF List of Maps Petroleum and Natural Gas 1 Crude oil and product infrastructure in India 2 Natural gas infrastructure in India Renewable Energy 1 Solar potential of Indian states union territories 2 State wise wind energy potential at 100 120 m above ground level 3 Biomass power BP bagasse cogeneration BC and waste to energy W2E 4 Small hydro potential in India 5 Geothermal potential in India Agriculture State wise distribution of districts based on vulnerability to climate change in India Buildings Climate zone map of India

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Interoperability Smart Cities Sustainable Buildings and Urban Environments Collaboration and Teamwork BIM Implementation and Deployment Building Performance Simulation Intelligent Catalogues and Services eWork and eBusiness in Architecture Engineering and Construction 2018 represents a rich and comprehensive resource for academics and researchers working in the interdisciplinary areas of information technology applications in architecture engineering and construction In the last two decades the biennial ECPPM European Conference on Product and Process Modelling conference series as the oldest BIM conference has provided a unique platform for the presentation and discussion of the most recent advances with regard to the ICT Information and Communication Technology applications in the AEC FM Architecture Engineering Construction and Facilities Management domains      **Energy and Sustainability VII** C.A. Brebbia, 2017-12-11

Containing papers presented at the 7th International Conference on Energy and Sustainability this volume includes collaborative research between different disciplines including materials energy networks new energy resources storage solutions waste to energy systems smart grids and many other related subjects Energy production and distribution matters as well as the need to respond to the modern world s dependency on conventional fuels are topics of growing importance The use of fossil fuels has generated an increasing amount of interest in renewable energy resources and the search for maintainable energy policies Energy policies and management are of primary importance to achieve the development of sustainability and need to be consistent with recent advances in energy production and distribution Challenges lie as much in the conversion from renewable energies such as wind and solar to useful forms like electricity heat and fuel at an acceptable cost including environmental damage as in the integration of these resources into an existing infrastructure A range of topics are covered including Energy policies Renewable energy resources Sustainable energy production Environmental risk management Green buildings Energy storage Energy management Biomass and biofuels Waste to energy Processing of oil and gas CO2 capturing and management Pipelines Energy efficiency Smart grids Energy and transport Case studies

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