

ARCHITECTURAL, ENERGY AND INFORMATION ENGINEERING

Editors: Wen-Pei Sung & Ran Chen

Architectural Energy Information Engineering International Ebook

**Ardeshir Mahdavi, Bob Martens, Raimar
Scherer**



Architectural Energy Information Engineering International Ebook:

Advancements in Sustainable Architecture and Energy Efficiency González-Lezcano, Roberto A.,2021-06-18 Thermal comfort and indoor air quality IAQ issues have gained significant interest in the scientific and technical community involved in building performance analysis and other related subjects In terms of thermal comfort the achievement and maintenance of a thermally acceptable indoor environment is affected by energy costs and energy poverty is a widespread problem globally There is a call for energy efficient architecture for a developed and sustainable world However with the use of renewable energy that increased considerably in recent years new technical challenges arose for the energy sector Consumers are key players in this context as flexibility in demand is crucial to cope with the intermittent nature of most renewable energy sources Active demand side participation is particularly important to ensure the efficient use of locally and globally available energy Sustainability human comfort and healthy living environments have become top priorities Advancements in Sustainable Architecture and Energy Efficiency explores how housing is a key health factor for individuals and looks at factors such as air quality ventilation hygrothermal comfort lighting physical environment building efficiency and other areas as important pieces in healthy architecture It discusses how the poor application of these parameters can directly affect human health and how sustainable architecture provides a solution Beyond just labeling the important facets of architecture for healthy living this book will look at different perspectives of energy consumption and demand to ensure sustainable energy increased energy efficiency improved energy policies and reasonable energy costs for homes This book is ideal for architects designers engineers energy engineers environmental scientists practitioners researchers academicians and students interested in architecture that is both conducive to healthy living and energy efficiency Proceedings of the 5th International Conference on Building Energy and Environment Liangzhu Leon Wang,Hua Ge,Zhiqiang John Zhai,Dahai Qi,Mohamed Ouf,Chanjuan Sun,Dengjia Wang,2023-09-04 This book is a compilation of selected papers from the 5th International Conference on Building Energy and Environment COBEE2022 held in Montreal Canada in July 2022 The work focuses on the most recent technologies and knowledge of building energy and the environment including health energy urban microclimate smart cities safety etc The contents make valuable contributions to academic researchers engineers in the industry and regulators of buildings As well readers encounter new ideas for achieving healthy comfortable energy efficient resilient and safe buildings **Handbook of Research on Digital Research Methods and Architectural Tools in Urban Planning and Design** Abusaada, Hisham,Vellguth, Carsten,Elshater, Abeer,2019-06-28 The efficient usage investigation and promotion of new methods tools and technologies within the field of architecture particularly in urban planning and design is becoming more critical as innovation holds the key to cities becoming smarter and ultimately more sustainable In response to this need strategies that can potentially yield more realistic results are continually being sought The Handbook of Research on Digital Research Methods and Architectural Tools in Urban Planning and Design is a critical

reference source that comprehensively covers the concepts and processes of more than 20 new methods in both planning and design in the field of architecture and aims to explain the ways for researchers to apply these methods in their works Pairing innovative approaches alongside traditional research methods the physical dimensions of traditional and new cities are addressed in addition to the non physical aspects and applied models that are currently under development in new settlements such as sustainable cities smart cities creative cities and intercultural cities Featuring a wide range of topics such as built environment urban morphology and city information modeling this book is essential for researchers academicians professionals technology developers architects engineers and policymakers Spon's Architects' and Builders' Price Davis Langdon,2011-01-25 With tender prices rising slightly looking at price lists is not enough you need SPON S ARCHITECTS AND BUILDERS PRICE BOOK 2011 to get a competitive edge SPON S ARCHITECTS AND BUILDERS PRICE BOOK compiled by Davis Langdon provides the most accurate detailed and professionally relevant construction price information currently available for the UK Its unique Tender Index updated through the year provides an ongoing reality check and adjustment for changing market conditions This is the only price book which sets out a detailed cost base for major works contracts exceeding 3 500 000 in value as well as minor works Major changes have been made to this 136th edition Overheads and profits have been kept low and in line with actual levels Preliminaries have also been dropped to 11% on a lower cost base And labour rates have been adjusted to reflect today s fragile market As well as an overhaul of prices Spon s Architects and Builders Price Book 2011 includes new Measured Works items including bio diverse roofs Clayboard void formers fire resisting glass blocks UPVC window options coloured Secured by Design glazing curve cutting drill holes insulating panels Kooltherm Thermafloor Thermaline more internal door options blister tactile paving Metsec SFS framing Ecosil paint new Approximate Estimating items lift pits Corium brick tiles solar hot water photovoltaic cells and polished plaster extra elemental building cost models on land remediation school refurbishment and office refurbishment Buyers of this 2011 edition can make a free internet download of SPON S ARCHITECTS AND BUILDERS price data which will run to the end of 2011 and Access Spon s new Approximate Estimates rate data as well as the Measured Works data Produce estimate and tender documents Generate priced or unpriced schedules Adjust rates and data and enter rogue items Export schedules into Excel Carry out an index search This year for the first time the resources include a versatile and powerful ebook *International Scientific Conference Energy Management of Municipal Facilities and Sustainable Energy Technologies EMMFT 2019* Vera Murgul,Viktor Pukhkal,2020-08-17 This book is intended to assist to improve energy efficiency in the industrial sector The book offers case studies for industrial energy efficiency improvement and contains brief reports on cutting edge research in all fields of the energy industry This book which is composed of select research proceedings of the EMMFT 2019 conference covers such issues as good quality energy use energy generation technologies materials used for energy generation and storage technologies as well as materials for water purification petroleum

engineering and digital energy systems The case studies discussed comprise the use of fossil fuel and non fossil fuel energy resources novel materials with advanced heat transport or heat resistance and energy digitalization Coverage extends to all theoretical and applied aspects of the field This book is an ideal resource for scientists and energy analysts industrial practitioners engineers researchers and postgraduate students working in the field of management and technology for improving energy efficiency in the industry Also the book is of interest to researchers engineers and laboratory personnel in the fields of power systems and smart grids

Architecture of Computing Systems Dietmar Fey,Benno Stabernack,Stefan Lankes,Mathias Pacher,Thilo Pionteck,2024-08-01 This book constitutes the proceedings of the 37th International Conference on Architecture of Computing Systems ARCS 2024 held in Potsdam Germany in May 2024 The 23 papers presented in this volume were carefully reviewed and selected from 33 submissions These papers have been categorized in the following sections Progress in Neural Networks Organic Computing Computer Architecture Co Design Progress in HPC Computer Architectures and Dependability and Fault Tolerance

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

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

Energy Efficient Buildings Zhiqiang John

Zhai,2022-10-04 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

Renewable Energy Based Solutions Tanay Sıdkı Uyar,Nader Javani,2022-11-01 This book discusses the main renewable energy resources along with the current challenges that make it difficult achieve 100% decarbonized energy sources It presents the perspectives of international expert authors in the field giving readers a multi dimensional view of the subject The book explores numerous approaches for a smooth transition from fossil fuels to renewable energies including those based on engineering methods as well as policies strategies and social perceptions It presents several case studies and examples from industry showcasing the potential role of renewable sources and their challenges The inclusion of both established methods and cutting edge developments will make this book of interest to academics industry professionals policy makers and graduate students alike

2024 the 8th International Conference on Energy and Environmental Science (ICEES 2024) Yanan Liu,2024-08-23 This book dedicates to publish exceptionally important and high quality agenda setting research so as to tackle the key global and societal challenges of ensuring the provision of energy and protecting our environment for the future The book appeals to chemical scientists chemical and process engineers energy researchers bio scientists and environmental scientists from across academia industry and government The scope is intentionally broad and the book recognizes the complexity of issues and challenges relating to energy conversion and storage alternative fuel technologies and environmental science The main topics of this book include but not limit to 1 alternative energy and the environment 2 assessments of the condition of

ecosystems and environmental quality 3 behavior of and impacts of pollutants in atmosphere soil and water 4 management of ecosystems environment and water resources 5 modeling and regional environmental assessments includes global change 6 treatment restoration of ecosystems environment and water resources 7 sustainable renewable energy and 8 energy and built environment All scales of studies and analysis from impactful fundamental advances to interdisciplinary research across the bio chemical bio geo physical sciences and chemical engineering disciplines are welcomed So this book is linked to the energy environment nexus and is of significant general interest to our community spanning readership *BIM Teaching and Learning Handbook* M. Reza Hosseini, Farzad Khosrowshahi, Ajibade Aibinu, Sepehr Abrishami, 2021-08-09 This book is the essential guide to the pedagogical and industry inspired considerations that must shape how BIM is taught and learned It will help academics and professional educators to develop programmes that meet the competences required by professional bodies and prepare both graduates and existing practitioners to advance the industry towards higher efficiency and quality To date systematic efforts to integrate pedagogical considerations into the way BIM is learned and taught remain non-existent This book lays the foundation for forming a benchmark around which such an effort is made It offers principles best practices and expected outcomes necessary to BIM curriculum and teaching development for construction related programs across universities and professional training programmes The aim of the book is to Highlight BIM skill requirements threshold concepts and dimensions for practice Showcase and introduce tried and tested practices and lessons learned in developing BIM related curricula from leading educators Recognise and introduce the baseline requirements for BIM education from a pedagogical perspective Explore the challenges as well as remedial solutions pertaining to BIM education at tertiary education Form a comprehensive point of reference covering the essential concepts of BIM for students Promote and integrate pedagogical consideration into BIM education This book is essential reading for anyone involved in BIM education digital construction architecture and engineering and for professionals looking for guidance on what the industry expects when it comes to BIM competency Security, Data Analytics, and Energy-Aware Solutions in the IoT Hei, Xiali, 2021-12-24 Internet of things networks have shown promising outcomes in the provisioning of potentially critical services such as safety applications healthcare and manufacturing However there are many challenges related to the security data analysis and limited resources of the performed operations that require further investigation Additional research is necessary to address the concerns and doubts of researchers and industry professionals in the Internet of Things Security Data Analytics and Energy Aware Solutions in the IoT reports novel methodologies theories technologies and solutions for security and data analytics techniques and energy aware solutions for the Internet of Things Covering a wide range of topics such as laser attacks and personal data it is ideal for academicians industry professionals researchers instructors and students **Design Solutions for nZEB Retrofit Buildings** Rynska, Elzbieta, Kozminska, Urszula, Zinowiec-Cieplik, Kinga, Rucinska, Joanna, Szybinska-Matusiak, Barbara, 2018-03-02 Construction projects once they are completed are

intended to exist in the skylines of cities and towns for decades Sustainable technologies seek to take these existing structures and make them environmentally friendly and energy efficient Design Solutions for nZEB Retrofit Buildings is a critical scholarly resource that examines the importance of creating architecture that not only promotes the daily function of these buildings but is also environmentally sustainable Featuring a broad range of topics including renewable energy sources solar energy and energy performance this book is geared toward professionals students and researchers seeking current research on sustainable options for upgrading existing edifices to become more environmentally friendly

Spon's Architects' and Builders' Price Book 2011 Davis Langdon,2010-09-08 With tender prices rising slightly looking at price lists is not enough you need SPON S ARCHITECTS AND BUILDERS PRICE BOOK 2011 to get a competitive edge SPON S ARCHITECTS AND BUILDERS PRICE BOOK compiled by Davis Langdon provides the most accurate detailed and professionally relevant construction price information currently available for

Energy Internet Ahmed F Zobaa,Junwei Cao,2020-06-17 This textbook is the first of its kind to comprehensively describe the energy Internet a vast network that efficiently supplies electricity to anyone anywhere and is an internet based wide area network for information and energy fusion The chapters are organized into five parts Architecture and Design Energy Switching and Routing Information and Communication Energy Management Systems and Energy Market and Trading and capture the spectrum of this exponential transformation while also presenting the plethora of open problems that this transformation poses for researchers from mixed academic backgrounds The scope includes key technologies on distributed energy sources microgrids energy storage solar and wind energy power grid smart grid power quality power electronics data centers distributed computing and networking cloud computing and big data and software defined networking The book presents the basic principles of energy internet and emphasizes the current research trends in the field of energy Internet at an advanced level It includes instructor materials case studies and worked examples throughout This is an ideal resource for students in advanced graduate level courses and special topics in energy information and control systems and is a useful tool for utility engineers who seek an intuitive understanding of the emerging applications of energy Internet

Daylight, Design and Place-Making Hisham Elkadi,Sura Al-Maiyah,2020-12-21 Daylight Design and Place Making examines the role of daylight in creating and revealing the wonders of heritage and contemporary architecture Shifting from a purely technical approach to daylighting this book places importance on the creation of meaningful aesthetics through an understanding of context and culture Cultural applications of light in architecture differ depending on various historical technological and social characteristics Increasingly there is a revival of interest in contemporary architecture using daylight as an essential contextual ingredient in the design process By examining the architecture of daylight in different locales and setting these in their historical contexts the book argues that appropriate use of daylight will ensure not only visual and thermal comfort in the urban setting and aid in energy efficiency but also will contribute to the overall identity of new buildings particularly in urban regeneration

projects This book brings together an analysis of technical aspects of daylight performance and environmental impact with discussions on the psychology of daylighting and its influence in shaping perceptions of our built environment It will be an ideal read for academics and researchers interested in architecture and cultural studies *Sun Tracking and Solar Renewable Energy Harvesting* Gerro Prinsloo, Robert Dobson, 2015-11-02 Free to download eBook on Practical Solar Tracking Design Solar Tracking Sun Tracking Sun Tracker Solar Tracker Follow Sun Sun Position calculation Azimuth Elevation Zenith Sun following Sunrise Sunset Moon phase Moonrise Moonset calculators In harnessing power from the sun through a solar tracker or solar tracking system renewable energy system developers require automatic solar tracking software and solar position algorithms On axis sun tracking system such as the altitude azimuth dual axis or multi axis solar tracker systems use a sun tracking algorithm or ray tracing sensors or software to ensure the sun's passage through the sky is traced with high precision in automated solar tracker applications right through summer solstice solar equinox and winter solstice Eco Friendly and Environmentally Sustainable Micro Combined Solar Heat and Power m CHP m CCHP m CHCP with Microgrid Storage and Layered Smartgrid Control towards Supplying Off Grid Rural Villages in developing BRICS countries such as Africa India China and Brazil Off grid rural villages and isolated islands areas require mCHP and trigeneration solar power plants and associated isolated smart microgrid solutions to serve the community energy needs This article describes the development progress for such a system also referred to as solar polygeneration The system includes a sun tracker mechanism wherein a parabolic dish or lenses are guided by a light sensitive mechanism in a way that the solar receiver is always at right angle to the solar radiation Solar thermal energy is then either converted into electrical energy through a free piston Stirling or stored in a thermal storage container The project includes the thermodynamic modeling of the plant in Matlab Simulink as well as the development of an intelligent control approach that includes smart microgrid distribution and optimization The book includes aspects in the simulation and optimization of stand alone hybrid renewable energy systems and co generation in isolated or islanded microgrids It focusses on the stepwise development of a hybrid solar driven micro combined cooling heating and power mCCHP compact trigeneration polygeneration and thermal energy storage TES system with intelligent weather prediction weak ahead scheduling time horizon and look ahead dispatch on integrated smart microgrid distribution principles The solar harvesting and solar thermodynamic system includes an automatic sun tracking platform based on a PLC controlled mechatronic sun tracking system that follows the sun progressing across the sky An intelligent energy management and adaptive learning control optimization approach is proposed for autonomous off grid remote power applications both for thermodynamic optimization and smart micro grid optimization for distributed energy resources DER The correct resolution of this load following multi objective optimization problem is a complex task because of the high number and multi dimensional variables the cross correlation and interdependency between the energy streams as well as the non linearity in the performance of some of the system components Exergy based control approaches for

smartgrid topologies are considered in terms of the intelligence behind the safe and reliable operation of a microgrid in an automated system that can manage energy flow in electrical as well as thermal energy systems The standalone micro grid solution would be suitable for a rural village intelligent building district energy system campus power shopping mall centre isolated network eco estate or remote island application setting where self generation and decentralized energy system concepts play a role Discrete digital simulation models for the thermodynamic and active demand side management systems with digital smartgrid control unit to optimize the system energy management is currently under development Parametric simulation models for this trigeneration system polygeneration poligeneration quadgeneration are developed on the Matlab Simulink and TrnSys platforms In terms of model predictive coding strategies the automation controller will perform multi objective cost optimization for energy management on a microgrid level by managing the generation and storage of electrical heat and cooling energies in layers Each layer has its own set of smart microgrid priorities associated with user demand side cycle predictions Mixed Integer Linear Programming and Neural network algorithms are being modeled to perform Multi Objective Control optimization as potential optimization and adaptive learning techniques

Food-Energy-Water Nexus Resilience and Sustainable Development Somayeh Asadi,Behnam Mohammadi-Ivatloo,2020-03-28 This book presents readers with an integrated modeling approach for analyzing and understanding the interconnection of water energy and food resources and discusses the relationship between resilience and sustainability of the food energy water FEW system Authors provide novel frameworks models and algorithms designed to balance the theoretical and applicative aspects of each chapter The book covers an integrated modeling approach for FEW systems along with developed methods codes and planning tools for designing interdependent energy water and food systems In depth chapters discuss the impact of renewable energy resources in FEW systems sustainable design and operation net zero energy buildings and challenges and opportunities of the FEW nexus in the sustainable development of different countries This book is useful for graduate students researchers and engineers seeking to understand how sustainable FEW systems contribute to the resilience of these systems and help policy and design makers allocate and prioritize resources in an integrated manner across the food energy and water sectors

Climate Change and Sustainable Developments Chitrlekha Nag Dasgupta,Rachana Singh,Ram Boojh,2025-08-25 This book focusses on climate change and sustainable scientific and technological solutions It includes topics related to environmental pollution extreme environments greenhouse gases and global warming effects of climate change on water resources and forest resources depletion of fossil fuels and generation of renewable energy human health agriculture and food security as per the UNSDGs It covers wastewater management production of renewable energy carriers and climate change policies developed by international bodies The following are its features Covers the current perspective and technological solutions to climate change with sustainable development model Aims to address causes and impacts of the climate crisis with its long term implication on the ecosystem Addresses the key aspects related to current climate crisis and

its sustainable interventions Includes focused case studies based on technological solutions especially green solutions
Describes all aspects of the climate crises including air water and energy sectors This book is aimed at graduate students
and researchers in environmental engineering renewable energy climate change and sustainable development

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