

Sustainability, Energy and Architecture

Case Studies in Realizing Green Buildings



Ali Sayigh



Sustainability Energy And Architecture Case Studies In Realizing Green Buildings

**Walter Leal Filho, Ulisses M.
Azeiteiro, Sandra Caeiro, Fátima Alves**



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Sustainability, Energy and Architecture Ali Sayigh, 2013-09-25 This unique volume offers insights from renowned experts in energy efficient building from the world over providing a multi faceted overview of the state of the art in energy efficient architecture It opens by defining what constitutes a sustainable building suggesting bases for sorely needed benchmarks then explains the most important techniques and tools available to engineers and architects exploring green building technologies It covers such pivotal issues as daylighting LED lighting integrating renewables such as solar thermal and cooling retrofitting LEED and similar certification efforts passive houses net zero and close zero structures water recycling and much more Highlighting best practices for commercial buildings and private homes in widely varied climates and within vastly different socio economic contexts this illustrated reference will guide architects and engineers in making sustainable choices in building materials and methods Explains the best methods and materials to support energy efficient building Features case studies by experts from a dozen countries demonstrating how sustainable architecture can be achieved in varied climates and economies Covers both new constructions and retrofitting of existing structures

Biomimicry and Sustainable Building Performance Olusegun Aanuoluwapo Oguntona, Clinton Ohis Aigbavboa, 2024-02-01 This book on biomimicry assessment tools studies the concepts of sustainability sustainable construction practices and the evaluation categories that constitute a sustainability assessment tool By exploring and drawing lessons from biomimicry principles the book provides a nature inspired assessment tool to aid and guide the sustainable transformation of the built environment The book encapsulates the attributes of the conceptualised biomimicry assessment tool which is aimed at helping practitioners regulatory bodies and governmental and non governmental agencies in greening the built environment Owing to the dire need for country specific and tailor made tools that address developing countries needs this book serves as a practical reference and theoretical springboard for the development of sustainability assessment tools for the built environment Furthermore the book serves as a guide in navigating the path towards achieving the greening agendas of the built environment and other sectors and seeks to align the new biomimicry assessment tool with the UN Sustainable Development Goals SDGs It is important reading for academics professionals and advanced students in the built environment engineering and sustainable development

The Sustainable City XIII S. Mambretti, J. L. Miralles i Garcia, 2019-12-06 Containing papers presented at the 13th International Conference on Urban Regeneration and Sustainability this volume includes latest research providing solutions that lead towards sustainability The series maintains its strong reputation and contributions have been made from a diverse range of delegates resulting in a variety of topics and experiences

Low Energy Low Carbon Architecture Khaled Al-Sallal, 2016-05-05 Providing a complete and in depth overview of the available knowledge in the area of low energy and low carbon architecture The scope of this edited book includes several important topics ranging from chapters giving a broad view of the progressing models in ecologically responsible environments to other

chapters focussing on recent advances in design strategies and building technologies in low energy heating cooling daylighting materials and building sustainable systems The book will give the readers insight to the future of low energy and low carbon architecture in the beyond green era and discussed in the broader context of the progressing theories of regenerative design *Integrating Sustainability Thinking in Science and Engineering Curricula* Walter Leal Filho, Ulisses M. Azeiteiro, Sandra Caeiro, Fátima Alves, 2014-09-13 Including considerations of sustainability in universities activities has long since become mainstream However there is still much to be done with regard to the full integration of sustainability thinking into science and engineering curricula Among the problems that hinder progress in this field the lack of sound information on how to actually implement it is prominent Created in order to address this need this book presents a wealth of information on innovative approaches methods and tools that may be helpful in translating sustainability principles into practice

Sustainable Housing in a Circular Economy Naomi Keena, Avi Friedman, 2024-04-18 This book relates circular economy principles to housing design and construction and highlights how those principles can result in both monetary savings positive environmental impact and socio ecological change Chapters focus on three key circular economy principles and apply them to architectural construction and design namely rethinking of the end of use phase of a building and the potential of design for disassembly the role of digitization and data standardization in fostering evidence based circular economy design decision making and presenting space as a resource to conserve via exploration of the sharing economy and flexibility principles Beyond waste management and material cycles this book provides a holistic understanding of the opportunities across the building life cycle that can allow for sustainable and affordable circular housing With case studies from 13 different countries including but not limited to the Hammarby Sjöstad district in Sweden the Circle House in Denmark Benny Farm in Canada VMD Prefabricated House in Mexico and the Deep Performance Dwelling in China authors pair theoretical frameworks with real world examples This will be a useful resource for upper level students and academics of architecture construction and planning especially those studying and researching housing design building technology green project management and environmental design

Eco-Architecture V.C.A. Brebbia, R. Pulselli, 2014-09-24 This book contains the proceedings of the fifth International Conference on Harmonisation between Architecture and Nature Eco Architecture 2014 Eco Architecture implies a new approach to the design process intended to harmonise its products with nature This involves ideas such as minimum use of energy at each stage of the building process taking into account the amount required during the extraction and transportation of materials their fabrication assembly building erection maintenance and eventual future recycling Another important issue is the adaptation of the architectural design to the natural environment learning from nature and long time honoured samples of traditional constructions The papers in this book deal with topics such as building technologies design by passive systems design with nature cultural sensitivity life cycle assessment resources and rehabilitation and many others Also included are case studies from many different places

around the world Eco Architecture by definition is a highly multi disciplinary subject Eco Architecture V Harmonisation between Architecture and Nature will therefore be of interest to in addition to architects many other professionals including engineers planners physical scientists sociologists and economists Topics covered include Design with nature Energy efficiency Building technologies Ecological impacts of materials Bioclimatic design Water quality Green facades Ecological and cultural sensitivity Education and training Case studies Design by passive systems Adapted reuse Life cycle assessment and durability Transformative design Sustainability indices in architecture

A Ventilation Strategy Based on Confluent Jets Setareh Janbakhsh, 2015-04-27 This study presents air distribution systems that are based on confluent jets this system can be of interest for the establishment of indoor environments to fulfill the goals of indoor climate and energy efficient usage The main objective of this study is to provide deeper understanding of the flow field development of a supply device that is designed based on wall confluent jets and to investigate the ventilation performance by experimental and numerical methods In this study the supply device can be described as an array of round jets on a flat surface attached to a side wall Multiple round jets that issue from supply device apertures are combined at a certain distance downstream from the device and behave as a united jet or so called confluent jets Multiple round jets that are generated from the supply device move downward and are attached to the wall at the primary region due to the Coanda effect and then they become wall confluent jets until the floor wall is reached A wall jet in a secondary region is formed along the floor after the stagnation region The characteristics of the flow field and the ventilation performance of conventional wall confluent jets and modified wall confluent jets supply devices are investigated experimentally in an office test room The study of the modified wall confluent jets is intended to improve the efficiency of the conventional one while maintaining acceptable thermal comfort in an office environment The results show that the modified wall confluent jets supply device can provide acceptable thermal comfort for the occupant with lower airflow rate compared to the conventional wall confluent jets supply device Numerical predictions using three turbulence models renormalization group RNG k realizable Re k and shear stress transport SST k are evaluated by measurement results The computational box and nozzle plate models are used to model the inlet boundary conditions of the nozzle device In the isothermal study the wall confluent jets in the primary region and the wall jet in the secondary region when predicted by the three turbulence models are in good agreement with the measurements The non isothermal validation studies show that the SST k model is slightly better at predicting the wall confluent jets than the other two models The SST k model is used to investigate the effects of the nozzle diameter number of nozzles nozzle array configuration and inlet discharge height on the ventilation performance of the proposed wall confluent jets supply device The nozzle diameter and number of nozzles play important roles in determining the airflow pattern temperature field and draught distribution Increased temperature stratification and less draught distribution are achieved by increasing the nozzle diameter and number of nozzles The supply device with smaller nozzle diameters and fewer nozzles yields rather uniform temperature

distribution due to the dominant effect of mixing The flow behavior is nearly independent of the inlet discharge height for the studied range The proposed wall confluent jets supply device is compared with a mixing supply device impinging supply device and displacement supply device The results show that the proposed wall confluent jets supply device has the combined behavior of both mixing and stratification principles The proposed wall confluent jets supply device provides better overall ventilation performance than the mixing and displacement supply devices used in this study This study covers also another application of confluent jets that is based on impinging technology The supply device under consideration has an array of round jets on a curve Multiple jets issue from the supply device aperture in which the supply device is positioned vertically and the jets are directed against a target wall The flow behavior and ventilation performance of the impinging confluent jets supply device is studied experimentally in an industrial premise The results show that the impinging confluent jets supply device maintains acceptable thermal comfort in the occupied zone by creating well distributed airflow during cold and hot seasons

Green Buildings and Renewable Energy Ali Sayigh, 2019-11-30 This book highlights selected papers presented during the bi annual World Renewable Energy Network s 2019 Med Green Forum This international forum highlights the importance of growing renewable energy applications in two main sectors Electricity Generation and Sustainable Building The papers highlight the most current research and technological breakthroughs illustrating the viability of using renewable energy to satisfy energy needs Coverage includes a broad range of renewable energy technologies and applications in all sectors electricity production heating and cooling agricultural applications water desalination industrial applications and transport Presents leading edge research in green building sustainable architecture and renewable energy Covers a broad range of renewable energy technologies and applications in all sectors Contains case studies and examples to enhance practical application of the technologies presented

Advances in Industrial Design Giuseppe Di Bucchianico, Cliff Sungsoo Shin, Scott Shim, Shuichi Fukuda, Gianni Montagna, Cristina Carvalho, 2020-07-07 This book addresses current research trends and practice in industrial design Going beyond the traditional design focus it explores a range of recent and emerging aspects concerning service design human computer interaction and user experience design sustainable design virtual augmented reality as well as inclusive universal design and design for all A further focus is on apparel and fashion design here innovations developments and challenges in the textile industry including applications of material engineering are taken into consideration Papers on pleasurable and affective design including studies on emotional user experience emotional interaction design and topics related to social networks make up a major portion of the contributions included in this book which is based on five AHFE 2020 international conferences the AHFE 2020 Virtual Conference on Design for Inclusion the AHFE 2020 Virtual Conference on Interdisciplinary Practice in Industrial Design the AHFE 2020 Virtual Conference on Affective and Pleasurable Design the AHFE 2020 Virtual Conference on Kansei Engineering and the AHFE 2020 Virtual Conference on Human Factors for Apparel and Textile Engineering held on July 16

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web there are four steps in the digestion process figure 2 3 2 the first step is ingestion which is the collection of food into the digestive tract it may seem a simple process but ingestion involves smelling food thinking about food and the involuntary release of saliva in the mouth to prepare for food entry

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web sep 8 2021 digestive system worksheet answer key the digestive process begins and final digestion and absorption mechanical digestion is the physical breakdown of large pieces of food into food is partly broken down by the process of and by the chemical action of salivary this begins the process of chemical digestion used to cut tear and

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web the digestive system quiz answer key saliva begins the process of breaking down food and makes food moist so it is easier to swallow 2 true or false heartburn occurs when stomach acid moves into the heart heartburn occurs when stomach acid moves up into the esophagus 3 gastric juices help break down food in the stomach 4

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