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Passive Low Energy Cooling Of Buildings

**T. Reddy, Jan F. Kreider, Peter S.
Curtiss, Ari Rabl**



Passive Low Energy Cooling Of Buildings:

Passive Low Energy Cooling of Buildings Baruch Givoni, 1994-07-27 A practical sourcebook for building designers providing comprehensive discussion of the impact of basic architectural choices on cooling efficiency including the layout and orientation of the structure window size and shading exterior color and even the use of plantings around the site All major varieties of passive cooling systems are presented with extensive analysis of performance in different types of buildings and in different climates ventilation radiant cooling evaporative cooling soil cooling and cooling of outdoor spaces

Architecture, City, Environment Koen Steemers, Simos Yannas, 2000 PLEA is a network of individuals sharing expertise in the arts sciences planning and design of the built environment It serves as an international interdisciplinary forum to promote discourse on environmental quality in architecture and planning This 17th PLEA international conference addresses sustainable design with respect to architecture city and environment at the turn of the millennium The central aim of the conference is to explore the interrelationships and integration of architecture city and environment The Proceedings will be of interest to all those involved in bioclimatic design and the application of natural and innovative techniques to architecture and planning The conference is organised by the Martin Centre for Architectural and Urban Studies University of Cambridge and the Cambridge Programme for Industry University of Cambridge

Low Energy Cooling for Sustainable Buildings Ursula Eicker, 2009-03-23 This long awaited reference guide provides a complete overview of low energy cooling systems for buildings covering a wide range of existing and emerging sustainable energy technologies in one comprehensive volume An excellent data source on cooling performance such as building loads or solar thermal chiller efficiencies it is essential reading for building services and renewable energy engineers and researchers covering sustainable design The book is unique in including a large set of experimental results from years of monitoring actual building and energy plants as well as detailed laboratory and simulation analyses These demonstrate which systems really work in buildings what the real costs are and how operation can be optimized crucial information for planners builders and architects to gain confidence in applying new technologies in the building sector Inside you will find valuable insights into the energy demand of residential and office buildings facades and summer performance of buildings passive cooling strategies geothermal cooling active thermal cooling technologies including absorption cooling desiccant cooling and new developments in low power chillers sustainable building operation using simulation Supporting case study material makes this a useful text for senior undergraduate students on renewable and sustainable energy courses Practical and informative it is the best up to date volume on the important and rapidly growing area of cooling

Heating and Cooling of Buildings T. Reddy, Jan F. Kreider, Peter S. Curtiss, Ari Rabl, 2016-09-01 Heating and Cooling of Buildings Principles and Practice of Energy Efficient Design Third Edition is structured to provide a rigorous and comprehensive technical foundation and coverage to all the various elements inherent in the design of energy efficient and green buildings Along with numerous new and revised

examples design case studies and homework problems the third edition includes the HCB software along with its extensive website material which contains a wealth of data to support design analysis and planning Based around current codes and standards the Third Edition explores the latest technologies that are central to design and operation of today s buildings It serves as an up to date technical resource for future designers practitioners and researchers wishing to acquire a firm scientific foundation for improving the design and performance of buildings and the comfort of their occupants For engineering and architecture students in undergraduate graduate classes this comprehensive textbook

Carbon-Neutral Architectural Design Pablo M. La Roche, 2017-07-14 The energy used to operate buildings is one of the most significant sources of greenhouse gas emissions While it is possible to reduce emissions through climate responsive design many architects are not trained to do this Filling an urgent need for a design reference in this emerging field this book describes how to reduce building related greenhouse gas emissions through appropriate design techniques It presents strategies to achieve CO2 reductions with an emphasis on control of energy flows through the building envelope and passive heating and cooling strategies This new revised edition is updated throughout and includes a new chapter on building simulations

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

Eco-efficient Materials for Reducing Cooling Needs in Buildings and Construction Fernando Pacheco-Torgal, Lech Czarnecki, Anna Laura Pisello, Luisa F. Cabeza, Claes Goran-Granqvist, 2020-10-05 Eco efficient Materials for Reducing Cooling Needs in Buildings and Construction Design Properties and Applications provides a comprehensive review on building envelope materials and technologies for reducing cooling needs in buildings The book offers in depth analysis of the performance of new innovative materials and technologies used in pavements facade and roofing materials PCMs and chromogenic smart materials Includes practical case study examples of their applications in building and construction The book is an essential reference resource for researchers architects and civil engineers city planners product developers manufacturers and other professionals working in eco efficient cooling materials and sustainable and zero energy building design Offers a

comprehensive review of building envelope materials and technologies for reducing cooling needs Features practical case studies which are fundamental for building design and applications Provides in depth analysis of performance for different materials and technologies Features brand new chapters on pavements facade and roofing materials PCMs and chromogenic smart materials

Synergistic Design of Sustainable Built Environments Chitrarekha Kabre,2020-11-15 Synergistic Design of Sustainable Built Environments introduces and illustrates a novel systems approach that fosters both design excellence and a leap toward a more biocentric ecologically sustainable design paradigm The book provides a deeper understanding of the theories and principles of biocentric design and offers detailed descriptions of the synergistic design process of integrating theories and principles into practice It also presents extensive thermal and visual built environment design strategies along with qualitative and quantitative information that designers can use to generate feasible solutions in response to varying climate and occupant comfort Features Examines the principles and practices of the synergistic design a fusion of anthropocentric and biocentric of sustainable built environments and how they relate to practical applications Presents climatic data and its analysis along with sun path diagrams for numerous cities to aid in the design of sustainable built environments in multiple regional contexts Includes numerous case studies of sustainable built environments in varying climatic zones Explains how renewable energy solar wind biomass geothermal hydro fuel cells can be successfully integrated in the built environment This forward thinking and highly illustrated book will be an invaluable reference to all those concerned with sustainable built environments and related architectural issues

Routledge Handbook of Resilient Thermal Comfort Fergus Nicol,Hom Bahadur Rijal,Susan Roaf,2022-04-19 This book brings together some of the finest academics in the field to address important questions around the way in which people experience their physical environments including temperature light air quality acoustics and so forth It is of importance not only to the comfort people feel indoors but also the success of any building as an environment for its stated purpose The way in which comfort is produced and perceived has a profound effect on the energy use of a building and its resilience to the increasing dangers posed by extreme weather events and power outages caused by climate change Research on thermal comfort is particularly important not only for the health and well being of occupants but because energy used for temperature control is responsible for a large part of the total energy budget of the built environment In recent years there has been an increasing focus on the vulnerabilities of the thermal comfort system how and why are buildings failing to provide safe and agreeable thermal environments at an affordable price Achieving comfort in buildings is a complex subject that involves physics behaviour physiology energy conservation climate change and of course architecture and urban design Bringing together the related disciplines in one volume lays strong multi disciplinary foundations for new research and design directions for resilient 21st century architecture This book heralds workable solutions and emerging directions for key fields in building the resilience of households organisations and populations in a heating world

Energy Systems and Environment Pavel

Tsvetkov,2018-09-12 This book looks at environmental aspects of energy technologies from common traditional sources in use new sources and emerging sources and technologies The objective of this book is to serve as a one stop comprehensive information resource on energy and environment topics from energy science to energy engineering to energy politics Starting with science and technology topics we link them to economics and politics showcasing interconnections between energy sources energy utilization energy conversion and sustainability under the common theme of energy and environment The book achieves its objective by offering and integrating deeply technical and socioeconomics papers together on energy and environment topics Eco-efficient Materials for Mitigating Building Cooling Needs F. Pacheco-Torgal,Joao

Labrincha,Luisa F. Cabeza,Claes-Göran Granqvist,2015-02-27 Climate change is one of the most important environmental problems faced by Planet Earth The majority of CO2 emissions come from burning fossil fuels for energy production and improvements in energy efficiency shows the greatest potential for any single strategy to abate global greenhouse gas GHG emissions from the energy sector Energy related emissions account for almost 80% of the EU s total greenhouse gas emissions The building sector is the largest energy user responsible for about 40% of the EU s total final energy consumption In Europe the number of installed air conditioning systems has increased 500% over the last 20 years but in that same period energy cooling needs have increased more than 20 times The increase in energy cooling needs relates to the current higher living and working standards In urban environments with low outdoor air quality the general case this means that in summer time one cannot count on natural ventilation to reduce cooling needs Do not forget the synergistic effect between heat waves and air pollution which means that outdoor air quality is worse in the summer aggravating cooling needs Over the next few years this phenomenon will become much worse because more people will live in cities more than 2 billion by 2050 and global warming will aggravate cooling needs An overview of materials to lessen the impact of urban heat islands Excellent coverage of building materials to reduce air conditioning needs Innovative products discussed such as Thermo and Electrochromic materials **Innovations in Ventilative Cooling** Giacomo Chiesa,Maria Kolokotroni,Per

Heiselberg,2021-06-08 This book includes the most recent outcomes from research and professional practice in the ventilative cooling field gathered by the selected panel of authors It provides essential contents to face and reduce the rise of space cooling and ventilation energy uses in buildings by alternative ventilation and cooling solutions The book is organised into three parts which include a detailed description of ventilative cooling boundaries and implications working principles KPIs standards comfort models control techniques and of principal techniques night ventilation controlled natural ventilation hybrid solutions PCM and mass activation evaporative cooling earth to air heat exchangers along with an updated analysis of the background to the topic Furthermore the last part of the book defines a unique practical and theoretical framework to include ventilative cooling solutions in different building typologies along with their principal implications *Progress in Clean Energy, Volume 2* Ibrahim Dincer,C. Ozgur Colpan,Onder Kizilkan,M. Akif Ezan,2015-10-28 This expansive reference

provides readers with the broadest available single volume coverage of leading edge advances in the development and optimization of clean energy technologies From innovative biofuel feed stocks and processing techniques to novel solar materials with record breaking efficiencies remote sensing for offshore wind turbines to breakthroughs in high performance PEM fuel cell electrode manufacturing phase change materials in green buildings to bio sorption of pharmaceutical pollutants the myriad exciting developments in green technology described in this book will provide inspiration and information to researchers engineers and students working in sustainability around the world

Harnessing Solar Heat
 Brian Norton, 2013-10-11 Systems engineered by man to harness solar heat in a controlled manner now include a diverse range of technologies each serving distinctive needs in particular climate contexts This text covers the breadth of solar energy technologies for the conversion of solar energy to provide heat either as the directly used output or as an intermediary to other uses such as power generation or cooling It is a wholly updated extended and revised version of Solar Energy Thermal Technology first published in 1992 The text draws on the own author s research and that of numerous colleagues and collaborators at Cranfield University University of Ulster Dublin Institute of Technology Indian Institute of Technology Delhi and University of Nigeria The initial chapters deal with relevant fundamental aspects of solar energy meteorology radiative heat transfer material properties and energy storage Solar energy collectors are discussed in detail before a set of chapters deal with each of the full range of applications The early chapters consider the solar energy resource its distribution in geographical spectral skyward geometrical and temporal domains the physics of solar energy absorption transmission and loss at surfaces and techniques for storing collected solar energy Specific collector sub systems are then discussed in chapters seven to nine For each system practical issues are discussed and a proven analytical procedure for predicting performance described Similarly analyses are presented in the concluding chapters on solar energy systems These range from dryers to greenhouses to systems that render buildings solar energy systems in themselves and the associated design issues The context for any use of solar energy is the prevailing climate This text being global in scope definates the most appropriate regions for particular technologies and applications It is a research orientated academic work citing publications on the peer reviewed literature covering engineering and applied science topics intended both for student use as a reference tool for teaching solar energy and for those researching solar thermal applications in universities industry or national commercial laboratories Insight into the challenges of implementation including practical constraints and operational considerations are provided to aid those undertaking feasibility studies technical assistance training assignments or operating testing facilities

Solar Chimney Applications in Buildings Long Shi, Haihua Zhang, 2023-11-29 This book comprehensively describes the operating principles and theoretical foundations of solar chimneys It covers current research results including numerical analysis and mathematical models based on different assumptions Complying with the application of renewable energy in sustainable buildings solar chimney has received extensive attention as an indispensable part natural

ventilation This book is a guide to the application of solar chimneys from single zones to multi zones and it provides a reference source of application for construction practitioners and engineering decision makers The design basis and the related basic principles of fluid mechanics and natural ventilation design strategies introduced in this book will also be beneficial to college students *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 Passive and Low Energy Cooling of Buildings Baruch Givoni,1994-01-01 **Running Buildings on Natural Energy** Sue Roaf,Fergus Nicol,2018-12-07 New thinking is essential if we are to design and occupy buildings that can keep us safe with unpredictable economies climates energy systems and resource challenges For too long designers have relied on mechanical solutions for heating cooling and ventilating buildings The 21st century dream has to be of a better architecture that enables buildings to be run for as much of a day or year as possible on local clean reliable affordable natural energy Examples are included from different climates where the fundamental building design is right its orientation opening sizes mass and its natural ventilation systems and pathways Many modern buildings are poorly designed for climate as manifested by growing incidences of overheating experienced indoor explored here The inability of many rating systems to record and improve the climatic design of buildings raises questions about how they deal with issues of basic building performance This books points the way towards how we can understand such problems and move forward from over mechanised poorly designed buildings to a new generation of adaptable buildings designed and refurbished to run largely on natural energy and capable of evolving over time to keep their occupants safe and comfortable even in a warming world The chapters were originally published in Architectural Science Review Renewable Energy and Sustainable Buildings Ali Sayigh,2019-08-30 This book contains selected papers presented during the World Renewable Energy Network s 28th anniversary congress at the University of Kingston in London The forum highlighted the integration of renewables and sustainable buildings as the best means to combat climate change In depth chapters written by the world s leading experts highlight the most current research and technological breakthroughs and discuss policy renewable energy technologies and applications in all sectors for heating and cooling agricultural applications water desalination industrial applications and for the transport sectors Presents cutting edge research in green building and renewable energy from all over the world Covers the most up to date research developments government policies business models best practices and innovations Contains case studies and examples to enhance practical

application of the technologies **Heating, Cooling, Lighting** Norbert M. Lechner, 2014-09-23 Sustainable environmental control through building design Heating Cooling and Lighting is the industry standard text on environmental control systems with the emphasis on sustainable design By detailing the many factors that contribute to the comfort in a building this book helps architects minimize mechanical systems and energy usage over the life of the building by siting building design and landscaping to maximize natural heating cooling and lighting This new fourth edition includes new information on integrated design strategies and designing for the Tropics Resources include helpful case studies checklists diagrams and a companion website featuring additional cases an image bank and instructor materials Designing buildings that require less energy to heat cool and light means allowing the natural energy of the sun and wind to reduce the burden on the mechanical and electrical systems Basic design decisions regarding size orientation and form have a great impact on the sustainability cost and comfort of a building Heating Cooling and Lighting provides detailed guidance for each phase of a design project Readers will Understand the concept of sustainability as applied to energy sources Review the basic principles of thermal comfort and the critical role of climate Learn the fundamentals of solar responsive design including active and passive solar systems as well as photovoltaics Discover how siting architectural design and landscaping can reduce the requirements for mechanical and electrical systems In sustainable design mechanical and electrical systems should be used to only accomplish what the architect could not by the design of the building itself With this in mind designers require a comprehensive understanding of both the properties of energy and the human factors involved in thermal comfort Heating Cooling and Lighting is the complete industry leading resource for designers interested in sustainable environmental control

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