

# Low-Energy Cooling Technologies for Buildings

Challenges and Opportunities for the  
Environmental Control of Buildings

Savvas A. Tassou

# Low Energy Cooling Technologies For Buildings

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



## **Low Energy Cooling Technologies For Buildings:**

*Low-Energy Cooling Technologies for Buildings* Savvas A. Tassou, 1998 Contains eight papers on current developments in technologies such as night ventilation for cooling slab cooling desiccant dehumidification and evaporative cooling chilled ceilings with displacement ventilation and mixed mode ventilation systems Covers design and control requirements and tools and techniques needed for successful integration of these technologies into a building structure No index Distributed by ASME Annotation copyrighted by Book News Inc Portland OR

**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

**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

**Review of Low Energy Cooling Technologies**, 1995 The cooling technologies described in this report cover a full range of applications including residential and commercial buildings

new and retrofit applications and buildings located in a variety of climates The technologies provide cooling in an energy efficient manner making use of low quality sources of cooling Each chapter summarizes the current state of technology of night ventilation ground cooling with air slab cooling with air desiccant cooling evaporative cooling slab cooling with water chilled ceilings and displacement ventilation and ground cooling with water using aquifers Information provided includes a description of the technology its applications energy performance costs and current status Appendices include information on climates building standards and practices energy sources and costs and water costs

**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

**Nocturnal Cooling Technology for Building Applications** Mardiana Idayu Ahmad,Hasila Jarimi,Saffa Riffat,2019-03-28 This book discusses nocturnal cooling technologies for building applications Exploiting the natural environment as a renewable and sustainable resource has become a significant strategy for passive energy saving in buildings and has led to growing interest in the use of passive radiative cooling based on nighttime nocturnal and daytime diurnal operating periods Of these nocturnal cooling is more promising since diurnal cooling is hard to achieve due to the solar radiation effect As such this book provides a comprehensive overview of nocturnal cooling for building applications including a definition concepts and principles materials and devices and cooling systems and configurations

**Solar Cooling Technologies** Sotirios Karellas,Tryfon C Roumpedakis,Nikolaos Tzouganatos,Konstantinos Braimakis,2018-10-03 Solar Cooling Technologies presents a detailed study of the potential technologies for coupling solar energy and cooling systems Unifies all the various power based solar techniques into one book investigates tri generation schemes for maximization of cooling efficiency especially for small scale applications and offers direct comparison of all possible technologies of solar cooling Includes detailed numerical investigations for potential cooling applications

**Heating and Cooling of Buildings** T. Agami 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 **Passive Cooling of Buildings** D. Asimakopoulou, 2013-10-31 Energy use in buildings in the EU represents about 40% of the total annual energy consumption With greater awareness of the need to reduce energy consumption comes a growth of interest in passive cooling particularly as an alternative to air conditioning This book describes the fundamentals of passive cooling together with the principles and formulae necessary for its successful implementation The material is comprised largely of information and results compiled under the SAVE European Research Programme **Advances in Passive Cooling** Mat Santamouris, 2012-05-16 Following a rapid increase in the use of air conditioning in buildings of all types the energy demand for powering such devices has become a significant cause for concern Passive cooling is increasingly being thought of as the best alternative to air conditioning This book offers the latest knowledge and techniques on passive cooling enabling building professionals to understand the state of the art and employ relevant new strategies With separate chapters on comfort urban microclimate solar control ventilation ground cooling and evaporative and radiative cooling this authoritative text will also be invaluable for architects engineers and students working on building physics and low energy design Advances in Passive Cooling is part of the BEST series edited by Mat Santamouris The aim of the series is to present the most current high quality theoretical and application oriented material in the field of solar energy and energy efficient buildings Leading international experts cover the strategies and technologies that form the basis of high performance sustainable buildings crucial to enhancing our built and urban environment **Research in Building Physics** J. Carmeliet, H. Hens, G. Vermeir, 2020-12-18 This text provides a broad view of the research performed in building physics at the start of the 21st century The focus of this conference was on combined heat and mass flow in building components performance based design of building enclosures energy use in buildings sustainable construction users comfort and health and the urban micro climate [ITJEMAST 11\(5\) 2020](#) , International Transaction Journal of Engineering Management Applied Sciences Technologies publishes a wide spectrum of research and technical articles as well as reviews experiments experiences modelings simulations designs and innovations from engineering sciences life sciences and related disciplines as well as interdisciplinary cross disciplinary multidisciplinary subjects Original work is required Article submitted must not be under consideration of other publishers for publications **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

*Patent Landscape Report on Solar Cooling Technologies.* World Intellectual Property Organization,2012-09-14 This patent landscape report provides a general overview of existing solar cooling technologies and potential fields of application It includes applications that go beyond air conditioning such as the cooling of water refrigeration of sensitive goods such as medicines or desalination of seawater

**Thermal Comfort and Energy-Efficient Cooling of Nonresidential Buildings** Doreen E. Kalz,Jens Pfafferoth,2014-03-26 This book supports HVAC planners in reducing the cooling energy demand improving the indoor environment and designing more cost effective building concepts High performance buildings have shown that it is possible to go clearly beyond the energy requirements of existing legislation and obtaining good thermal comfort However there is still a strong uncertainty in day to day practice due to the lack of legislative regulations for mixed mode buildings which are neither only naturally ventilated nor fully air conditioned but use a mix of different low energy cooling techniques Based on the findings from monitoring campaigns long term measurements in combination with field studies on thermal comfort simulation studies and a comprehensive review on existing standards and guidelines this book acts as a commonly accessible knowledge pool for passive and low energy cooling techniques

**Roof Cooling Techniques** Eviatar Erell,2013-04-03 Natural heating and cooling of buildings helps to improve energy efficiency in the built environment This book considers the principles of roof design and specific systems and cooling techniques The authors explain the fundamental principles of roof cooling and describe in detail the relevant components applications built precedents recent experimental work and key design considerations Specific systems and techniques are examined including the main advantages and disadvantages of each strategy Environmental functions are considered in terms of protective strategies and selective strategies Protective strategies include solar control thermal insulation heat storage and thermal inertia Selective strategies include radiative evaporative and convective cooling and planting of roofs Traditional and current roof construction practices are described exemplified by case studies from across Europe Including downloadable resources with software that enables readers to evaluate their own designs this book will be invaluable for architects and engineers who wish to create buildings that are more energy efficient

**Bioclimatic Approaches in Urban and Building Design** Giacomo Chiesa,2021-01-04 This book explores the bioclimatic approach to building design Constant innovations in the field are evident including the need to face climate changes and increase the local resilience at different scales regional urban architectural Differently from other contributions this book provides a

definition of the bioclimatic design approach following a technological and performance driven vision It includes one of the largest collection of research voices on the topic becoming also a critical reference work for bioclimatic theory It is intended for architects engineers researchers and technicians who have professional and research interests in bioclimatic and in sustainable and technological design issues      *Advances in Building Energy Research* Mat Santamouris,2008 *Advances in Building Energy Research* ABER offers state of the art information on the environmental science and performance of buildings linking new technologies and methodologies with the latest research on systems simulations and standards As stringently reviewed as a journal but with the breadth of a book this annual volume brings together invited contributions from the foremost international experts on energy efficiency and environmental quality of buildings Spanning a broad range of technical subjects this is a must have reference on global developments in the field suitable for architects and building engineers environmental engineers industry professionals students teachers and researchers in building science technical libraries and laboratories Volume 3 covers Energy Carbon and Cost Performance of Building Stocks Solar Chimneys in Buildings Optimization and Economics of Solar Cooling Systems Artificial Neural Networks and Genetic Algorithms in Energy Applications in Buildings Decision Support Methodologies on the Energy Efficiency and Energy Management in Buildings Progress in Numerical Modelling for Urban Thermal Environment Studies Post Occupancy Evaluation POE An Inevitable Step Toward Sustainability Guidelines to Avoid Mould Growth in Buildings Thermal Impact of Strategic Landscaping in Cities Urban Heat Island and its Impact on Building Energy Consumption Green Roofs in Buildings Thermal and Environmental Behaviour Building Earth Contact Heat Transfer      **The Solar Cooling Design Guide** Daniel Mugnier,Daniel Neyer,Stephen D. White,2017-08-31 Solar cooling systems can be a cost effective and environmentally attractive air conditioning solution The design of such systems however is complex Research carried out under the aegis of the International Energy Agency s Solar Heating and Cooling Program has shown that there is a range of seemingly subtle design decisions that can impact significantly on the performance of solar cooling systems In order to reduce the risk of errors in the design process this guide provides detailed and very specific engineering design information It focuses on case study examples of installed plants that have been monitored and evaluated over the last decade For three successful plants the design process is described in detail and the rationale for each key design decision is explained Numerical constraints are suggested for the sizing selection parameters of key equipment items Moreover the application conditions under which the system selection is appropriate are discussed By following The Guide for any of the three specific solar cooling systems the designer can expect to reliably achieve a robust energy saving solution This book is intended as a companion to the IEA Solar Cooling Handbook which provides a general overview of the various technologies as well as comprehensive advice to enable engineers to design their own solar cooling system from first principles      **Solar Thermal Technologies for Buildings** Matheos Santamouris,2003 This book includes 10 original contributions from a thematic Workshop organized in

Athens covering most of the areas of solar thermal technologies as applied to buildings It focuses on future perspectives for related materials and technologies with strategic importance for passive solar heating



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