

# Wind Catchers For Cooling

**Koen Steemers, Simos Yannas**

**Application of Wind Catcher in Cooling Process of Data Centers** Shirin Shirazi, 2014 The sustainability of IT facilities has become a top priority in the modern era due to the global energy crisis and ecosystem deterioration. Data centers, as complex infrastructures consisting of computers, networking equipment, and elaborate cooling systems, consume large amounts of electricity. Wind catchers, as a prominent vernacular architecture design, have been used as effective natural air-conditioning systems in desert climates. In this thesis we investigate the application of wind catcher as an effective and passive ventilation technology for controlling data centers' thermal conditions in appropriate climates. The study includes running a detailed DesignBuilder simulation for a hypothetical structure, consisting of a data center, a wind catcher with two openings, and an exhaust wind tower. The results of this study show that, over the course of a year, a data center located in Moscow, Idaho, with 120.84MWh heat gain can be ventilated through external air with -136.12MWh heat removal.

**Using Wind Catchers as a Passive Cooling System for Residential Buildings in Cyprus**, 2011

Thermal Comfort in Hot Dry Climates Ahmadreza Foruzanmehr, 2017-09-14 With increases in global temperatures, the risk of overheating is expected to rise around the world. This results in a much higher dependency upon energy-intensive cooling systems and air-conditioners to provide thermal comfort, but how sustainable is this in a world where problems with the production of electricity are predicted? Vernacular houses in hot and dry central Iran have been adapted to the climate through passive cooling techniques, and this book provides a valuable assessment of the thermal performance of such housing. Shedding new light on the ability of traditional housing forms to provide thermal comfort, Thermal Comfort in Hot Dry Climates identifies the main cooling systems and methods in traditional houses in central Iran, and examines how architectural elements such as central courtyards, distinct seasonal rooms, loggias, basements and wind-catchers can contribute to the provision of thermal comfort in vernacular houses.

**Energy Dynamics of Green Buildings** Mohammad H. Naraghi, 2020

**Digital Twin Technology** Gopal Chaudhary, Manju Khari, Mohamed Elhoseny, 2021-10-05 Most of the business sectors consider the Digital Twin concept as the next big thing in the industry. A current state analysis of their digital counterparts helps in the prediction of the future of physical assets. Organizations obtain better insights on their product performance

through the implementation of Digital Twins, and the applications of the technology are frequently in sectors such as manufacturing, automobile, retail, health care, smart cities, industrial IoT, etc. This book explores the latest developments and covers the significant challenges, issues, and advances in Digital Twin Technology. It will be an essential resource for anybody involved in related industries, as well as anybody interested in learning more about this nascent technology. This book includes: The future, present, and past of Digital Twin Technology. Digital twin technologies across the Internet of Drones, which developed various perceptive and autonomous capabilities, towards different control strategies such as object detection, navigation, security, collision avoidance, and backup. These approaches help to deal with the expansive growth of big data solutions. The recent digital twin concept in agriculture, which offers the vertical farming by IoT installation development to enhance the problematic food supply situation. It also allows for significant energy savings practices. It is highly required to overcome those challenges in developing advanced imaging methods of disease detection & prediction to achieve more accuracy in large land areas of crops. The welfare of upcoming archetypes such as digitalization in forensic analysis. The ideas of digital twin have arisen to style the corporeal entity and associated facts reachable software and customers over digital platforms. Wind catchers as earth building: Digital Twins vs. green sustainable architecture.

**The Wind Catcher** Ali Mahyari, 1996

Energy-efficient Buildings in India Mili Majumdar, 2001-01-01 Accelerated urbanization imposes immense pressure on the dwindling energy sources and fragile ecosystems. Yet, the resource crunch confronting energy supplies can be alleviated if we design and develop future buildings by incorporating sound concepts of energy efficiency and sustainability. Covering 41 projects from India's various climatic zones, this book provides thorough insights into the context, techniques, and benefits of energy-efficient buildings. The projects highlight design responses to varied climatic conditions, appropriate materials and construction methods, implementation of energy-efficient systems, and effective utilization of renewable energy to reduce pressure on grid power. This book will inspire architects, designers, urban planners, engineers, and students to build for a better tomorrow.

**Passive Solar Heating and Cooling**, 1977

**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, Wind Catcher Assisted Indirect-evaporative Cooling System for Building Applications* Abdalla A. M. Elzaidabi, 2009

**Wind Catchers for Passive Ventilation Cooling in Hot Humid Regions** Sathiseelan Perumal, 2003

**Low Energy, Wind Catcher Assisted Indirect-evaporative Cooling System for Building Applications** Abdalla Ali Mohamed Elzaidabi, 2009 Increased consciousness of the environmental problems has aroused people's interest of renewable energy systems, especially the application of green features in buildings. The demand for air conditioning / cooling in domestic and non-domestic buildings is rising throughout the world; this increases the reliance on conventional fuels and the global warming effect from greenhouse gas emissions. Passive cooling and energy efficient design can substantially reduce reliance on fuel based heating and cooling. Passive and Hybrid Dwindraught Cooling, in different forms, is now technically viable in many parts of the world. This has been established through a combination of research projects. In some hot arid regions, a major part of the energy consumed consists of air-conditioning requirements. Alternative methods, using passive cooling techniques, can assist in reducing the conventional energy consumption in buildings. Evaporative cooling, which can be tracked back several hundreds of years in ancient Egypt and Persia [1-3], is one of the most effective strategies, because of the enormous latent heat needed for evaporation of water. Green features are architectural features used to mitigate migration of various air-borne pollutants and transmission of air from outside to indoor environment in an advantageous way [9]. The reduction of fossil fuel consumption and the associated decrease in greenhouse gas emissions are vital to combat global warming and this can be accomplished, in part, by the use of natural ventilation. To assess the performance of several innovative cooling systems devices and to develop improved models for more established technology, quantitative measurement of output was necessary. This was achieved in this study by the development of simply constructed low energy cooling systems which were calibrated by the innovative use of wind and water as a source. These devices were found to be consistent and accurate in measuring the temperature and cooling load from a number of devices. There were some problems in the original evaporative units. Therefore, a number of modifications have to be made to enhance the systems performance. The novel Windcatcher - PEC cooling system was assessed and different cooling loads were achieved.

*Proceedings of the ... National Passive Solar Conference*, 1990

**Science and Society** Joan Young Gregg, Joan Russell, 1995

**Proceedings of the 10th International Brick and Block Masonary Conference** N. G. Shrive, 1994

**E Source Technology Atlas Series: Commercial space cooling and air handling**, 1997

**Fluids Engineering Conference - Proceedings of the International Joint U. S.-European ASME Conference (2002: Montrealg, Canada)** Dieter Mewes, 2002 Annotation This is Volume 2, in two parts, of the proceedings of a July

2002 conference on a wide range of topics related to fluids engineering: analysis, numerical methods, experiments in single-phase and multiphase flows and applications. In Part A, about 70 contributions discuss flows in manufacturing processes, experimental and numerical flow visualization and laser anemometry, erosion processes, fluid- structure interaction and flow-induced noise in industrial applications, numerical methods for multiphase flows, numerical developments in CFD, and non-invasive measurement in multiphase flows. Part B, approximately 60 contributions, covers advances in numerical modeling of aerodynamics and hydrodynamics in turbomachinery; fluid flow in micro systems, measurements, analysis and applications; the measurement and modeling of large-scale turbulent structures; and fluids engineering. There is no subject index.

Annotation c. Book News, Inc., Portland, OR (booknews.com).

**The Natural House** Daniel D. Chiras, 2000 This sourcebook examines the options for building a house that is economical, energy-efficient, nontoxic, kind to the environment, and pleasurable to inhabit. Explores the pros and cons of 14 natural building methods, including straw bale, rammed earth, cob, cordwood, adobe, earthbags and papercrete.

*OHI*, 2000

**Building in Hot Dry Climates** Balwant Singh Saini, 1980

Decoding **Wind Catchers For Cooling**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Wind Catchers For Cooling**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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