

# The Impact of Solar Energy on Modern Architecture



# Solar Building Architecture

**A. K. ATHENITIS**

## **Solar Building Architecture:**

*Solar Building Architecture* Bruce Anderson, 1990 This book clearly chronicles the exciting development of the variety of approaches that were explored and describes those that succeeded and which are being used today **Passive Solar Buildings** J. Douglas Balcomb, 1992 Describes developments in passive solar technology that will save time energy and resources in planning for the buildings of the future This companion to Passive Cooling and Solar Building Architecture volumes 8 and 9 describes developments in passive solar technology that will save time energy and resources in planning for the buildings of the future It is filled with tips and useful research for architects and designers and includes three substantial chapters on general modeling Passive solar heating works Properly designed and constructed it is cost effective practical comfortable and aesthetic Balcomb's introductory remarks set the tone for the rest of the contributions which describe the considerable record of achievements in passive solar heating Balcomb summarizes and evaluates the era between 1976 and 1983 when most of the major developments took place and highlights the design features that have contributed to effective buildings Three chapters cover modeling passive systems applicable to both heating and cooling and six chapters focus on the application of passive solar heating with emphasis on components analytical results for specific systems test modules subsystem integration into buildings performance monitoring and results and design tools J Douglas Balcomb is a Principal Engineer with the Solar Energy Research Institute *Solar buildings* Giulia Falconi, 2015-01-28T00:00:00+01:00 Oggi in tutto il mondo nel campo dell'architettura e dell'urbanistica si stanno studiando sperimentando e realizzando sistemi basati sulle energie rinnovabili Questo non soltanto una risposta alla crisi energetica che coinvolge tutto il nostro pianeta ma anche un rinnovato senso etico dell'agire in forma economica e in armonia con l'ambiente con l'adozione di soluzioni essenziali prive di sprechi che vivano come esseri biologici stabilendo relazioni non di contrasto ma d'amicizia con l'ambiente Questo atteggiamento si riallaccia a tradizioni plurimillenarie che dall'antica civiltà egizia trovano momenti straordinari in quella romana islamica e nel rinascimento ma anche nei più umili insediamenti di un recente passato Si cercava di realizzare il massimo comfort fisico e psicologico sfruttando le interazioni tra la forma architettonica e le dinamiche ambientali per ottenere condizioni ottimali di luminosità riscaldamento rinfrescamento ombreggiamento Il sole ovviamente la massima fonte di energia rinnovabile da cui dipendono i fondamentali beni naturali la luce il calore i moti dell'atmosfera il clima I più qualificati architetti di tutto il mondo stanno lavorando su questi temi che riattualizzano e amplificano attraverso nuove tecnologie concetti e metodi una grande tradizione troppo a lungo dimenticata Per diffondere e approfondire queste idee è stato lanciato un concorso internazionale tra gli studenti di tutte le Facoltà di Architettura d'Europa per la progettazione di un Edificio Solare In ogni Università sono stati organizzati speciali seminari multidisciplinari sull'argomento e istituiti gruppi di docenti per seguire il lavoro degli studenti Questo libro una sintesi dei risultati ottenuti che sono oggetto anche di una mostra itinerante internazionale la cui prima tappa a Firenze Il concorso è stato ideato e diretto da quattro prestigiose

istituzioni le Facolt di Architettura del Politecnico di Atene dell Universit di Roma e di Stoccarda e inoltre dall ENEA Ente per le nuove Tecnologie l Energia e l Ambiente che ha fornito il supporto scientifico alle varie Scuole di Architettura europee e alla Giuria Il progetto stato finanziato e sponsorizzato dalla Comunit Europea Today throughout the architecture and town planning world systems based on renewable energies are being studied experimented with and created This is not merely a response to the energy crisis that has involved our whole planet but it also reflects a renewed sense of ethics one that leads us to want to act with economy in harmony with the environment Hence the desire to adopt essential solutions that are devoid of waste that behave like biological beings establishing relations not of conflict with the environment but rather of friendship with it This attitude connects back up with millennia old traditions that since the ancient Egyptian civilization enjoyed extraordinary developments in the Roman Islamic and Renaissance civilizations but also in the humbler settlements of a recent past In them it was sought to create the maximum physical and psychological comfort by exploiting the interactions between architectural form and environmental dynamics to obtain the best conditions of lighting heating cooling shade And of course the methods used were solar for the sun is obviously the main source of renewable energy on which the fundamental natural goods depend light warmth movements in the atmosphere the climate The most qualified architects throughout the world are working on these themes which they are bringing up to date and extending using new technologies concepts and methods a great tradition that for too long had been forgotten To disseminate these ideas and at the same time go more deeply into them an international competition was recently launched among students of all the Faculties of Architecture in Europe for the design of a Solar Building In every university special multidisciplinary seminars were organized on the subjects and teams of instructors were set up to follow the students work This book is a summary of the results achieved they being the subject too of a traveling international exposition whose first stop will be in Florence The competition was conceived and managed by four institutions of high prestige the Faculties of Architecture of Athens Polytechnic and of the Universities of Rome and of Stuttgart and ENEA Agency for new technologies energy and the environment which provided scientific support to the various European schools of architecture and to the jury The project was sponsored and financed by the European Community Passive Solar Architecture David Bainbridge, Ken Haggard, 2011-08-18 New buildings can be designed to be solar oriented naturally heated and cooled naturally lit and ventilated and made with renewable sustainable materials no matter the location or climate In this comprehensive overview of passive solar design two of America s solar pioneers give homeowners architects designers and builders the keys to successfully harnessing the sun and maximizing climate resources for heating cooling ventilation and daylighting Bainbridge and Haggard draw upon examples from their own experiences as well as those of others of more than three decades to offer both overarching principles as well as the details and formulas needed to successfully design a more comfortable healthy and secure place in which to live laugh dance and be comfortable Even if the power goes off Passive Solar Architecture also

discusses greener and more sustainable building materials and how to use them and explores the historical roots of green design that have made possible buildings that produce more energy and other resources than they use **Designing with Solar Power** Deo K. Prasad,2005 Designing with Solar Power is the result of international collaborative research and development work carried out within the remit of the International Energy Agency's Photovoltaic Power Systems Programme IEA PVPS where world wide and interdisciplinary The Passive Solar Design and Construction Handbook Steven Winter Associates, Inc.,1998 Passive solar design refers to design strategies that minimize or eliminate the need to heat or cool a building mechanically This sourcebook of details drawings and case studies of passive solar buildings throughout the US provides is a complete guide to passive solar design and construction Thermal Analysis and Design of Passive Solar Buildings A. K. ATHENITIS,2020-06-30 Passive solar design techniques are becoming increasingly important in building design This design reference book takes the building engineer or physicist step by step through the thermal analysis and design of passive solar buildings In particular it emphasises two important topics the maximum utilization of available solar energy and thermal storage and the sizing of an appropriate auxiliary heating cooling system in conjunction with good thermal control Topics include Transient heat transfer and thermal storage Fenestration components systems and daylighting Dynamic models of heat transfer in solar buildings The passive response of solar buildings and its use in design Ventilation and indoor air quality Analysis and sizing of small auxiliary heating cooling systems Control of passive solar buildings Solar energy utilization techniques and systems Thermal Analysis and Design of Passive Solar Buildings is an important contribution towards the optimization of buildings as systems that act as natural filters between the indoor and outdoor environments while maximizing the utilization of solar energy As such it will be an essential source of information to engineers architects HVAC engineers and building physicists Book jacket **Solar Buildings and Neighborhoods** Caroline Hachem-Vermette,2020-05-30 This book presents the main principles for designing buildings and neighborhoods with increased potential to capture and utilize solar energy It discusses practical issues in the design of the built environment and their impact on energy performance and a range of design considerations from building components e g the building envelope to urban planning issues e g density and street layouts In addition to design guidelines on how to increase buildings potential to capture solar energy the book provides creative tips to increase the aesthetic value of solar technology integration in buildings Helping readers plan energy efficient buildings with innovative building envelope technologies and to understand the impact of early stage design considerations on the energy performance of buildings and communities the book offers a valuable source of information for building professionals including architects engineers and urban planners It can also serve as a reference guide for academics and students of energy efficiency in buildings and urban planning **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

**The Architecture of Energy** Martin Centre for Architectural and Urban Studies,1982 [Solar Architecture in Cool Climates](#) Colin Porteous,2012-04-27

A must read for practitioners teachers and others interested in or working with energy use in the built environment including a delightful set of examples Ann Grete Hestnes former President of the International Solar Energy Society Solar Architecture in Cool Climates is an invaluable primer on low energy building design combining accessible information with convincing arguments enabling new techniques to be implemented in daily practice Approaching the topic in a thematic manner the book provides inspiration an understanding of key principles and technical data on the design of solar buildings in higher latitudes The text is enlivened through direct experience of case studies from Europe and North America dealing with new build retrofitting and conceptual projects that outline future potential the principles being equally applicable to equivalent southern latitude locations The authors examine the dilution of additional costs through different strategies the tensions between energy efficiency and environmental quality and the proactive control of energy in building design Promoting flexibility and opportunity to a diverse audience including those who use procure and finance buildings the book aims to bring the design of green solar buildings in cool climates from special interest status into the mainstream

Broader environmental issues relating to solar architecture are addressed in the final chapter again drawing on case studies from the authors own wide experience Solar Architecture in Cool Climates is written for architects and other building designers students of architecture and other professionals interested in sustainable architecture renewable energy and engineering

[Small Solar Buildings in Cool Northern Climates](#) David Oppenheim,1981 [Energy Efficient Building Design](#) Ana-Maria Dabija,2020-04-11 This book is the result of recent research that deals with the built environment and innovative materials carried out by specialists working in universities and centers of research in different professional fields architecture engineering physics and in an area that spans from the Mediterranean Sea to the Persian Gulf and from South Eastern Europe to the Middle East This book takes the necessity of re shaping the concept of building design in order to transform buildings from large scale energy consumers to energy savers and producers into consideration The book is organized in two parts theory and case studies For the theoretical part we chose from the wide range of sources that provide

energy efficient materials and systems the two that seem to be endless the sun and vegetation Their use in building products represents a tool for specialists in the architectural design concept The case studies presented analyze different architectural programs in different climates from new buildings to rehabilitation approaches and from residential architecture to hospitals and sports arenas each case emphasizes the interdisciplinarity of the building design activity in order to help readers gain a better understanding of the complex approach needed for energy efficient building design

### **Solution Sets for Net Zero Energy Buildings**

François Garde, Joseph Ayoub, Laura Aelenei, Daniel Aelenei, Alessandra Scognamiglio, 2017-03-01

Net Zero Energy Buildings have been the object of numerous studies in recent years as various countries have set this performance level as a long term goal of their energy policies This book presents a unique study of 30 NZEBs that have been constructed and have had their performance measured for at least 12 months The study is based upon an international collaborative research initiated by the International Energy Agency the Solar Heating and Cooling Programme SHC It is the first book to evaluate building strategies in houses educational buildings and offices that have been demonstrated to work in practice It examines how the design challenges of climate and building type have been addressed and to what extent the various design approaches have been successful This book presents convincing evidence that a careful re thinking of conventional design norms can achieve a far greater performance benefit than is normally feasible It identifies solution sets that work at the whole building level and at the individual building design challenge level for each climate and building type In doing so the book provides guidance as to how to improve the design by learning from these cases Unusually for a book of this type it has examples of buildings in what are conventionally labeled hot and cold climates A simple process is proposed for the reader to commission the analysis of their own climate to assess not only the conventional measure of how hot or cold or humid it is but also to assess its suitability to support other NZEB technical challenge solutions sets such as Daylight or Natural Ventilation or comfort based climate conditioning

### **Passive Solar Energy in Buildings**

Watt Committee on Energy, 1988 First Published in 2004 Routledge is an imprint of Taylor Francis an informa company

### 101 Rules of Thumb for Low Energy Architecture

Huw Heywood, 2019-07-25 101 Rules of Thumb sets out the essential elements of low energy architecture in a fresh intuitive way In an area where ever changing technology and complex legislation and can cloud the designer's thought processes this book encourages the designer to think clearly and intuitively about the fundamentals of low energy buildings With reliable simple rules of thumb that will provide new ideas and refresh the designer's palette each page focuses on a single piece of advice or guidance along with a clear hand drawn illustration while there are also plenty of tips and more detailed information for those who wish to dig deeper The emphasis is on passive low energy principles and the rules of thumb cover all the design fundamentals from site and location to orientation and form peppered with some which will help the designer to think outside the box about the design process itself

### Net Zero Energy Buildings (NZEB)

Shady Attia, 2018-03-26 Net Zero Energy Buildings NZEB Concepts Frameworks and Roadmap for Project Analysis and

Implementation provides readers with the elements they need to understand combine and contextualize design decisions on Net Zero Energy Buildings The book is based on learned lessons from NZEB design construction operation that are integrated to bring the most relevant topics such as multidisciplinarity climate sensitivity comfort requirements carbon footprints construction quality and evidence based design Chapters introduce the context of high performance buildings present overviews of NZEB cover the performance thresholds for efficient buildings cover materials micro grid and smart grids construction quality performance monitoring post occupancy evaluation and more Offers a roadmap for engaging in energy efficiency in high performance buildings projects Combines solid grounding in core concepts such as energy efficiency with a wider context that includes the technical socio cultural and environmental dimensions Covers key areas for decision making Provides a logical framework to analyze projects in the context of environmental change Presents worldwide examples and cases for different climates and societies

**Sun, Wind, and Light: Architectural Design Strategies** Mark DeKay, G. Z. Brown, 2014-02-03 An updated guide to designing buildings that heat with the sun cool with the wind and light with the sky This fully updated Third Edition covers principles of designing buildings that use the sun for heating wind for cooling and daylight for natural lighting Using hundreds of illustrations this book offers practical strategies that give the designer the tools they need to make energy efficient buildings Hundreds of illustrations and practical strategies give the designer the tools they need to make energy efficient buildings Organized to quickly guide the designer in making buildings respond to the sun wind and light

*Solar Technologies for Buildings* Ursula Eicker, 2003-07-18 A complete overview of solar technologies relevant to the built environment including solar thermal energy for heating and cooling passive solar energy for daylighting and heating supply and photovoltaics for electricity production Provides practical examples and calculations to enable component and system simulation e g Calculation of U values I V curve parameters and radiance distribution modelling Discusses the new trends in thermal energy use including the architectural integration of collector systems integrated ventilation photovoltaics facades and solar powered absorption cooling systems Coverage of cutting edge applications such as active and passive cooling techniques and results from ongoing research projects

*Building Design Guidelines for Solar Energy Technologies*, 1989 There are two main objectives to this publication The first is to find out the communalities in the experience gained in previous studies and in actual applications of solar technologies in buildings residential as well as nonresidential The second objective is to review innovative concepts and products which may have an impact on future developments and applications of solar technologies in buildings The available information and common lessons were collated and presented in a form which hopefully is useful for architects and solar engineers as well as for teachers of solar architecture and students in Architectural Schools The publication is based mainly on the collection and analysis of relevant information The information included previous studies in which the performance of solar buildings was evaluated as well as the personal experience of the Author and the research consultants The state of the art as indicated by

these studies and personal experience was summarized and has served as basis for the development of the Design Guidelines In addition to the summary of the state of the art as was already applied in solar buildings an account was given of innovative concepts and products Such innovations have occurred in the areas of thermal storage by Phase Change Materials PCM and in glazing with specialized or changeable properties Interesting concepts were also developed for light transfer which may enable to transfer sunlight to the core areas of large multi story nonresidential buildings These innovations may have a significant impact on future developments of solar technologies and their applications in buildings 15 refs 19 figs 3 tabs

## Decoding **Solar Building Architecture**: Revealing the Captivating Potential of Verbal Expression

In a time 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 "**Solar Building Architecture**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on 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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