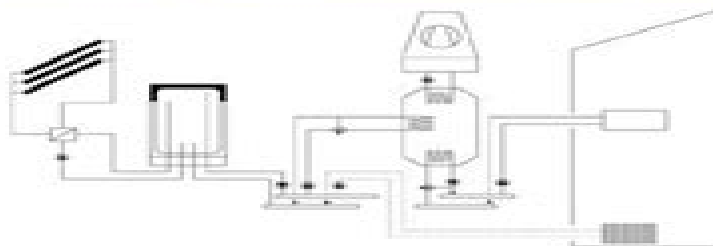


Hans-Martin Henning (Ed.)

Solar-Assisted Air-Conditioning in Buildings

A Handbook for Planners



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Solar Assisted Airconditioning In Buildings A Handbook For Planners

Y. P. Pai

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Books in Print ,1982 **Solar Radiation Considerations in Building Planning and Design** National Research Council (U.S.). Committee on Solar Energy in the Heating and Cooling of Buildings,1976 *National Program for Solar Heating and Cooling of Buildings* United States. Energy Research and Development Administration. Division of Solar Energy,1976 **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 **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 U S provides is a complete guide to passive solar design and construction

Solar Cooling Handbook H.-M. Henning,Mario Motta,2012-06-29 Our energy system faces a fundamental transformation and renewable energies will play a dominant role in the future energy supply One of the promising solutions is the use of solar thermal energy in buildings for cooling heating and domestic hot water preparation Solar thermal systems for providing heat and cold to industrial processes show a high potential too In the last decade the application of solar driven cooling systems achieved a significant progress Steps forward have been taken in the design of system concepts to specific needs and in more reliable and efficient operation of the installed plants New systems are available on the market and cover a

broad range of cooling capacities and driving temperatures This handbook provides an overview on the various solutions to convert solar heat into useful cooling reports about experiences made with realized installations and gives support in the design process Its use will strongly contribute to achieve high quality solar cooling systems which provide significant energy savings and fulfil the user s requirements in a safe and reliable way Solar Air Systems Robert Hastings,2013-10-18 Active solar systems for air heating are a straightforward yet effective way of using solar energy for space heating and tempering ventilation air They offer some unique advantages over solar water systems can offer improved comfort and fuller use of solar gains than passive solar systems and are a natural fit with mechanically ventilated buildings They can be economical with short pay back periods and can act not only as space heating or ventilation air heating but also for water pre heating sunshading electricity generation with hybrid photovoltaic systems and can help induce cooling This design handbook takes architects and building engineers through the process of designing and selecting an active solar system from the six types presented optimizing the system using nomograms and curves and finally dimensioning the components of the system Tips are offered regarding the construction and how to avoid problems The book will provide essential design information for all architects building engineers and other building design professionals and all those concerned to reduce the environmental impact of buildings *National Design Handbook Prototype on Passive Solar Heating and Natural Cooling of Buildings* ,1990 **Planning and Installing Solar Thermal Systems** German Solar Energy Society (DGS),2010 First Published in 2010 Routledge is an imprint of Taylor Francis an informa company **Solar Cooling Handbook** Hans-Martin Henning,Mario Motta,Daniel Mugnier,2013-09-17 In vielen L ndern tr gt die sommerliche Raumklimatisierung ma geblich zum Energieverbrauch von Geb uden bei Eine vielversprechende M glichkeit zur Reduktion ist die Nutzung von thermischer Solarenergie in Systemen der solar unterst tzten Klimatisierung Der gro e Vorteil liegt dabei in der weitgehenden Zeitgleichheit von K hllasten und Solargewinnen zumindest im saisonalen Ma stab Allerdings wurden bis heute weltweit nur vergleichsweise wenige Systeme installiert und es liegen nur geringe Erfahrungen hinsichtlich Auslegung und Betrieb solcher Anlagen vor Das Ziel dieser mittlerweile in der 3 Auflage vorliegenden Handbuchs ist es zur Beseitigung dieses Mangels beizutragen und den Planer bei der Auslegung von Anlagen der solar unterst tzten Klimatisierung die thermische Solarkollektoren als W rmequelle nutzen zu unterst tzen **Solar Heating and Cooling of Buildings** Karl Wolfgang Boer,1976 The Solar Cooling Design Guide Daniel Mugnier,Daniel Neyer,Stephen D. White,2017-09-01 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 Cooling Paul Kohlenbach,Uli Jakob,2014-06-20 Cooling buildings is a major global energy consumer and the energy requirement is growing year by year This guide to solar cooling technology explains all you need to know about how solar energy can be converted into cooling energy It outlines the difference between heat driven and photovoltaic driven systems and gives examples of both making clear in what situations solar cooling technology makes sense It includes chapters on solar thermal collectors solar cooling technologies cold distribution storage components designing and sizing installation operation and maintenance economic feasibility potential markets case studies Solar Cooling is for engineers architects consultancies solar thermal technology companies students and anyone who is interested in getting involved with this technology

Solar Energy Applications in the Design of Buildings Henry J. Cowan,1980 **Use of Solar Energy and Natural Cooling in the Design of Buildings in Developing Countries** ,1984

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