

Comprehensive Planning For Passive Solar Architectural Retrofit

Passive Solar Architecture Passive Solar Architecture Solar Architecture in Cool Climates The Passive Solar Design and Construction Handbook Passive Solar Architecture Pocket Reference Passive Solar Buildings Natural Solar Architecture Passive Solar Architecture Pocket Reference Solar Architecture in Europe Passive Solar Solar Architecture Passive Solar Architecture Solar Architecture The Passive Solar Primer Thermal Analysis and Design of Passive Solar Buildings Activism in Architecture Passive Solar Architecture in Europe 2 Building 2000 Passive Solar Architecture Passive solar architecture in Europe, 2 David Bainbridge David Wright Colin Porteous Steven Winter Associates, Inc. Ken Haggard J. Douglas Balcomb David Wright Kenneth L. Haggard T. C. Steemers Herbert Wade Christian Schittich David A. Bainbridge Timothy Edward Johnson David Wright AK Athienitis Margot McDonald Ralph M. Lebens C. den Ouden COMMISSION OF THE EUROPEAN COMMUNITIES.

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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

discusses the architectural styles construction techniques materials and energy efficiency of homes designed for solar energy systems in a wide range of climates

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 and 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

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

our pocket reference books provide a wealth of practical information at your fingertips whenever you need it rich in background detail at a glance tables and diagrams equations and more the passive solar architecture pocket reference is a handy resource for architects engineers and students coverage includes definitions load determinants and responses including world wide biomes and climates building metabolism and response thermal sources and sinks passive building responses to sources and sinks tuning the building to the environment optimizing insulation thermal mass for comfort contextual aspects including microclimate and siting temperatures humidity wind radiation and comfort parameters passive components including building envelope passive solar terminology orientation apertures and glazing thermal storage thermal control and materials design tools including sun path diagrams sun peg diagrams air flow relationships thermal modelling and life cycle design specific functions including passive heating passive cooling and ventilation natural lighting passive water heating resource collection and integrated design

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

great book featuring designs for solar construction of homes and other architecture by david wright environmental architect over 80 black and white diagrams plans charts and illustrations of passive and solar designs measurement charts topographical information

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in the very near future energy efficient building will be the rule rather than the exception insulating glazing multi functional facades and organic solar cells are examples of important new developments in the field of solar thermal technology photo voltaics heating and ventilation technology which are suitable for a wide range of uses from large scale urban planning projects to individual single family houses and can make significant contributions to the conservation of natural resources in sustainable building carefully selected articles provide information on planning methods and techniques which will enable the user to assess and apply appropriate measures the essays are complemented by a selection of built examples which demonstrate innovative solutions and the importance of an integrated planning process in realized projects complete with full plans and large scale details

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

good no highlights no markup all pages are intact slight shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine

architect david wright helped pioneer the concept of passive solar architecture and his thoughts and experiments have helped shape the evolution of solar design throughout the world his years of exploration are distilled in this comprehensive book which provides simple graphics and language to illuminate concepts including

greenhouse effect heat storage surface to volume ratio ventilation and cooling tips rules of thumb regional characteristics and many other considerations are presented to help readers from initial site selection to visionary design written for architects designers and others who seek to tap the free resources offered by earth and sun this invaluable tool will help reduce dependence on outside energy sources you will be inspired

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 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

this edited collection gathers contributions from a diverse range of renowned scholars and professionals to uncover the unique relationship between passive architectural systems and activism focusing on the pioneering work of the influential american chemist and inventor harold r hay 1909 2009 and the environmental awareness events that took hold in the united states during the 1960s and 1970s the book assembles essays which closely examine hay s contribution to architecture and the work of those who directly and tangentially were affected by it the book also offers insights into the role of passive energy design today appealing to researchers architects and students interested in architecture and design technology activism in architecture explores the role of passive environmental inventions as an active agent in shaping socio political debates

this is the first volume of building 2000 a pilot project of the commission s r d programme solar energy applications to buildings with the purpose of encouraging the adoption of solar architecture in large buildings in this first volume the results of the design studies illustrating passive solar architecture in buildings in the european community are presented in particular for the building categories schools laboratories and universities and sports and educational centres in a second volume a similar series of studies is presented for the building categories office buildings public buildings and hotels and holiday complexes there was an enthusiastic response from project teams responsible for the design of 32 large buildings with a total construction budget of more than 140 million ecu the willingness to improve their building concepts by collaborating with r d experts was encouraging to the commission s action in this field these two books reflect the results of the exchange of information between the actual design practitioners and the european r d community within the building 2000 programme science and technology at the service of architecture became reality this was not only realised by the various support activities initiated by build ing 2000 but also by the active exchange of ideas by architects and design team members with r d workers during the various workshops held within the building 2000 programme i highly recommend architects and engineers interested in passive solar architecture and modern daylighting approaches to study these final products of the building 2000 programme

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