

Comprehensive Planning For Passive Solar Architectural Retrofit

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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

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

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

presents technical information on passive energy design and application using illustrations and text and includes 27 design patterns for use in designing a passive energy system

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

the only canadian guide of its kind covers all aspects to consider with respect to passive solar houses and techniques solar radiation solar energy collection and window performance heat storage and distribution shading and summer comfort window selection considerations design integration site planning and overheating the cd rom contains database of window manufacturers and products program that estimates appropriate window area for a house and more

this report indicates that the benefits that accrue to a building and its occupants from a consideration of solar radiation are greatest when the passive solar component is seen in perspective as a natural part of an integrated approach to climatically interactive low energy building design

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

anyone who has been in a solar house on a cold winter day has felt the warmth and comfort of its natural radiant heat in 1958 solar pioneer Peteran Dresser built his first solar heated house one of the two oldest in the United States in this book Van Dresser lays out in text and illustration the principles an owner builder will need to know in siting designing building and living in their solar house several sample house plans ideas for solar water heaters and plans for solar crop dryers give the solar enthusiast the basic information they will need to begin plans on their efficient home his book shows that solar energy can be economically harnessed by simple means that are within the grasp of the average homeowner and builder

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