

Solar architecture: The direct gain approach (An Energy learning systems book)

Timothy E. Johnson

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Solar Architecture The Direct Gain Approach

David Bainbridge, Ken Haggard



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The Building Environment Vaughn Bradshaw, 2010-09-29 Get the updated guide to active and passive control systems for buildings To capitalize on today's rapidly evolving specialized technologies architects designers builders and contractors work together to plan the mechanical and electrical equipment that controls the indoor environment of a building The Building Environment Active and Passive Control Systems Third Edition helps you take advantage of design innovations and construction strategies that maximize the comfort safety and energy efficiency of buildings From active HVAC systems to passive methods lighting to on site power generation this updated edition explains how to strategically plan for and incorporate effective efficient systems in today's buildings It covers the underlying thermal theories and thermodynamic principles and focuses on design that enhances the building environment and minimizes the impact on the world's environment The Building Environment goes beyond the ABCs of HVAC and covers On site power generation including wind turbines solar photovoltaic cells fuel cells and more Plumbing systems fire protection signal systems conveying systems and architectural acoustics Procedures and or formulas for performing heat loss heat gain and energy use calculations determining the rate of heat flow calculating solar energy utilization doing load calculations and more Details on the latest building codes and standards references New information on the sustainable design of building systems and energy efficiency including new technologies The latest thinking and data on a building's impact on the environment indoor air quality and sick building syndrome Design economics including the payback period life cycle cost comparative value analysis and building commissioning A practical on the job tool for architects designers builders engineers contractors and other specialists this Third Edition is also a great reference for architecture students who will lead tomorrow's design teams

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

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

Physics of Societal Issues David Hafemeister, 2013-12-12 This book provides the reader with essential tools needed to analyze complex societal issues and demonstrates the transition from physics to modern day laws and treaties This second edition features new equation oriented material and extensive data sets drawing upon current information from experts in their fields Problems to challenge the reader and extend discussion are presented on three timely issues National Security Weapons Offense Defense Verification Nuclear Proliferation Terrorism Environment Air Water Nuclear Climate Change EM Fields Epidemiology Energy Current Energy Situation Buildings Solar Buildings Renewable Energy Enhanced End Use Efficiency Transportation Economics Praise for the first edition This insight is needed in Congress and the Executive Branch Hafemeister a former Congressional fellow with wide Washington experience has written a book for physicists chemists and engineers who want to learn science and policy on weapons energy and the environment Scientists who want to make a difference will want this book Richard Scribner first Director Congressional Science and Engineering Fellow Program AAAS Hafemeister shows how much one can understand about nuclear weapons and missile issues through simple back of the envelope calculations He also provides compact explanations of the partially successful attempts that have been made over the past 60 years to control these weapons of mass destruction Hopefully Physics of Societal Issues will help interest a new generation of physicists in continuing this work Frank von Hippel Professor Princeton former Assistant Director National Security White House OSTP Energy policy must be quantitative People who don't calculate economic tradeoffs often champion simplistic hardware The solution is more nuclear power or electric cars or photovoltaics etc Some simple physics will show that the true solution matches supply and demand as an integrated resource plan Physics of Societal Issues is a good place to begin this journey Arthur Rosenfeld former California Energy Commissioner Professor emeritus U of California Berkeley

Mechanical and Electrical Equipment for Buildings Walter T. Grondzik, Alison G. Kwok, 2019-09-10 The

definitive guide to the design of environmental control systems for buildings now updated in its 13th Edition Mechanical and Electrical Equipment for Buildings is the most widely used text on the design of environmental control systems for buildings helping students of architecture architectural engineering and construction understand what they need to know about building systems and controlling a building s environment With over 2 200 drawings and photographs this 13th Edition covers basic theory preliminary building design guidelines and detailed design procedure for buildings of all sizes It also provides information on the latest technologies emerging design trends and updated codes Presented in nine parts Mechanical and Electrical Equipment for Buildings Thirteenth Edition offers readers comprehensive coverage of environmental resources air quality thermal visual and acoustic comfort passive heating and cooling water design and supply daylighting and electric lighting liquid and solid waste and building noise control This book also presents the latest information on fire protection electrical systems and elevator and escalator systems This Thirteenth Edition features Over 2 200 illustrations with 200 new photographs and illustrations All new coverage of high performance building design Thoroughly revised references to codes and standards ASHRAE IES USGBC LEED Living Building Challenge WELL Building Standard and more Updated offering of best in class ancillary materials for students and instructors available via the book s companion website Architect Registration Examination ARE style study questions available in the instructor s manual and student guide Mechanical and Electrical Equipment for Buildings has been the industry standard reference that comprehensively covers all aspects of building systems for over 80 years This Thirteenth Edition has evolved to reflect the ever growing complexities of building design and has maintained its relevance by allowing for the conversation to include why as well as how to

Portugal SB07 Luis Bragança, 2007 The construction industry is a vibrant and active industry The building sector is responsible for creating modifying and improving the living environment of humanity On the other hand construction and buildings have considerable environmental impacts consuming a significant proportion of limited resources of the planet including energy raw material water and land Therefore the sustainability of the built environment the construction industry and the related activities is a pressing issue facing all stakeholders in order to promote Sustainable Development The new millennium is challenging practitioners and researchers with the sustainability of the built environment and the construction industry Hence the main purpose of this publication is to discuss these challenges and present solutions that actively facilitate and promote the adoption of policies methods and tools to accelerate the movement towards a global sustainable built environment The issues presented include Building sustainability assessment tools Indoor environment quality and benchmarks Sustainable resources and materials use Use of non conventional materials Use of industrial waste Eco materials and technologies Sustainable management of existing building stock Innovative sustainable construction systems and Design

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