

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

Timothy E. Johnson

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# Solar Architecture The Direct Gain Approach

**Luis Bragança, Manuel D. Pinheiro, Said  
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Amoêda, Manuel Correia Guedes**



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**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 , *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 **Solar Architecture** Timothy Edward Johnson, 1981 Good No Highlights No Markup all pages are intact

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*The Greening of Architecture* Phillip James Tabb, A. Senem Deviren, 2017-03-02 Contemporary architecture and the culture it reflects dependent as it is on fossil fuels has contributed to the cause and necessity of a burgeoning green process that emerged over the past half century This text is the first to offer a comprehensive critical history and analysis of the greening of architecture through accumulative reduction of negative environmental effects caused by buildings urban designs and settlements Describing the progressive development of green architecture from 1960 to 2010 it illustrates how it is ever evolving and ameliorated through alterations in form technology materials and use and it examines different places worldwide that represent a diversity of cultural and climatic contexts The book is divided into seven chapters with an overview of the environmental issues and the nature of green

architecture in response to them followed by an historic perspective of the pioneering evolution of green technology and architectural integration over the past five decades and finally providing the intransigent and culturally pervasive current examples within a wide range of geographic territories The greening of architecture is seen as an evolutionary process that is informed by significant world events climate change environmental theories movements in architecture technological innovations and seminal works in architecture and planning throughout each decade over the past fifty years This time period is bounded on one end by the awareness of environmental problems beginning in the 1960 s the influential texts by Rachel Carson E F Schumacher Buckminster Fuller and Steward Brand and the impact of the OPEC Oil Embargo of 1973 and on the other end the pervasiveness of the necessary greening of architecture that includes systemic reforms in architectural and urban design land use planning transportation agriculture and energy production found in the 2000 s The greening process moves from remediation to holistic models of architecture Geographical landscapes give a global account of the greening process where some examples are parallel and sympathetic and others are in clear contrast to one another with very individuated approaches Certain events like the Rio Summit in 1992 and Kyoto Protocol in 1997 and themes such as the Hannover Principles in 2000 provide a dynamic ideological critique as well as a formal and technical discussion of the embodied and accumulative content of greening principles in architecture

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

**Environmental Issues for Architecture** David Lee Smith, 2011-02-16 This primer for architects explores the basic physical principles and requirements of every aspect of passive and active controls in buildings Avoiding needless jargon Environmental Issues for Architecture supports an understanding of environmental systems in order to inform architectural design With topics ranging from lighting acoustics thermal control plumbing fire protection and egress to elevators and escalators all of the latest technologies are supported Designer friendly this rich resource gives just enough technical information for architects to design buildings that are efficient and comfortable

Ecological and Health Effects of Building Materials Junaid Ahmad Malik, Shriram Marathe, 2021-08-07 This book deals with the present adverse effects of using precarious building materials on the ecology and human health Also the detailed discussions on the novel and greener construction materials and their utilization as an alternative to the conventional harmful existing methods and materials are also presented in the subsequent chapters This book helps to fill the research gaps in the existing prior art knowledge in the field of sustainable construction and green building materials and methods giving due importance to ecology and health specifically to the fields of sustainable structural engineering sustainable geotechnical engineering sustainable road engineering etc This book helps in achieving a sustainable environment through possible adoption of innovative and ecological construction practices Hence this book acts as a practical workbook mainly for the academicians and practicing engineers who are willing to work toward the consecrated building industry It is a well established fact that the constructions of the engineering structures consume more and more earth resources than any other human activities in the world In addition the construction related activities will produce several million tons of greenhouse gases toxic emissions water pollutants and solid wastes This creates a huge impact on environment and causes severe health issues on humans and animals It is thus important to create an eco friendly construction environment which can satisfy the ecological and health requirements

*NBS Special Publication* ,1981 *Portugal SB07. Sustainable Construction, Materials and Practices* Luis Bragança, Manuel D. Pinheiro, Said Jalali, Ricardo Mateus, Rogério Amoêda, Manuel Correia Guedes, 2007-08-15 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 AIA Journal ,1983 **Energy Research Abstracts** ,1993 Climate and Energy Responsive Housing in Continental Climates Farshad Nasrollahi,2009 **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 **Heating, Cooling, Lighting** Norbert Lechner,2014-10-13 Sustainable environmental control through building design Heating Cooling and Lighting is the industry standard text on environmental control systems with the emphasis on sustainable design By detailing the many factors that contribute to the comfort in a building this book helps architects minimize mechanical systems and energy usage over the life of the building by siting building design and landscaping to maximize natural heating cooling and lighting This new fourth edition includes new information on integrated design strategies and designing for the Tropics Resources include helpful case studies checklists diagrams and a companion website featuring additional cases an image bank and instructor materials Designing buildings that require less energy to heat cool and light means allowing the natural energy of the sun and wind to reduce the burden on the mechanical and electrical systems Basic design decisions regarding size orientation and form have a great impact on the sustainability cost and comfort of a building Heating Cooling and Lighting provides detailed guidance for each phase of a design project Readers will Understand the concept of sustainability as applied to energy sources Review the basic principles of thermal comfort and the critical role of climate Learn the fundamentals of solar responsive design including active and passive solar systems as well as photovoltaics Discover how siting architectural design and landscaping can reduce the requirements for mechanical and electrical systems In sustainable design mechanical and electrical systems should be used to only accomplish what the architect could not by the design of the building itself With this in mind designers require a comprehensive understanding of both the properties of energy and the human factors involved in thermal comfort Heating Cooling and Lighting is the complete industry leading resource for designers interested in sustainable environmental control Residential Conservation Service Program ,1979

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