

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

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# Solar Architecture The Direct Gain Approach

**Norbert Lechner**



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*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      **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      Architectural Draughtsman (Theory) - II Mr. Rohit Manglik, 2024-05-18 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels      **Sunlighting as Formgiver for Architecture** William M. C. Lam, 1986 Donated      Energy Research Abstracts , 1993      **NBS Special Publication** , 1981      *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 **Dictionary of Architectural and Building Technology** Henry Cowan,Peter Smith,2004-08-02 A comprehensive summary of the vocabulary used across the building industry from the preparation of an architectural brief through creative and technical design to construction technology and facilities management The latest edition has several substantially revised entries as well as many new additions including new illustrations and terms Covering a range of disciplines across architecture and building and including both SI metric and Imperial units this dictionary and reference work will enable students and professionals to use and understand vocabulary

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