

Presentation On Solar Geometry Solar Radiation And Control

Bibliography of Agriculture 1975

Carbon-Neutral Architectural Design Pablo M. La Roche 2011-12-15 The energy used to operate buildings is one of the most significant sources of greenhouse gas emissions. To lessen the human impact on climate, it is necessary to reduce these building-related emissions. New legislation, as well as market and financial pressures, are driving architects and developers to create low-carbon buildings. While it is possible to achieve many of these reductions through appropriate climate-responsive design, many architects are not trained to do this. Filling an urgent need for a design reference in this emerging field, Carbon-Neutral Architectural Design describes how to reduce building-related greenhouse gas emissions through appropriate design techniques. This full-color book presents strategies and methods to achieve CO2 reductions, with an emphasis on control of energy flows through the building envelope and passive heating and cooling strategies. Strategies for Designing Buildings with a Smaller Carbon Footprint Examining climate change and its relationship with buildings, the book begins with a look at the sources of emissions and how these are produced as a result of interactions between buildings and the surrounding environment. It then introduces a carbon-neutral architectural design process (CNDP) and a roadmap that can be adjusted for different types of projects. Discussing climate analysis and solar geometry, the book explores how understanding the climate where a building is located helps to identify the design strategies that are best suited to that location—whether warm and humid, warm and dry, temperate, or cold. It looks at psychrometrics and how to achieve thermal comfort with minimum emissions. The book also explains how building fabric can be used to control energy flows by conduction, radiation, and convection—helping to reduce overheating and overcooling—and how to incorporate passive cooling and heating systems through appropriate design. The book includes useful references, equations, and illustrations, as well as a comparison of free carbon counting tools that can be used for residential building design. Drawing on the author's extensive experience in teaching and practice, this is a valuable resource for anyone who wants to reduce the carbon footprint of buildings. Find more study resources at the American Institute of Architects' Carbon Neutral Design Project web site. What's next for green building? See what Dr. La Roche has to say in this video on the HMC Architects blog.

Light and Lighting and Environmental Design 1965

Environmental Control Systems Fuller Moore 1993 A text/reference for architects and architectural engineering students taking a course on energy methods, this work places emphasis on the impact of heating, cooling and lighting on site of building design and features a variety of case studies as illustration. [Introduction to Architectural Science](#) Steven Szokolay 2012-05-16 By introducing the basics of architectural science, this book is an ideal reference that provides an understanding of the physical basis of architectural design. The knowledge gained from this book equips the reader with the tools for realizing the full potential of the good intentions of sustainable, bioclimatic design. The text gives the reader the knowledge to design in order to control indoor environmental conditions: heat, light and sound. Into this discussion is introduced the problem that traditional energy resources are finite, and their use damaging, and governments and professional bodies demand increasing levels of sustainable design. An outline is provided for creating the required indoor conditions with little or no use of energy, other than from renewable sources. Each chapter presents a quick outline of the basic and relevant physics of heat, light, sound and energy, followed by an examination of human requirements. The reader is then introduced to ways in which these elements can be controlled by the building and by its design.

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A Planner's Handbook on Energy (with Emphasis on Residential Uses). Florida. State Energy Office. Data Collection and Analysis Section 1975

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Energy Research Abstracts 1977 Semiannual, with semiannual and annual indexes. References to all scientific and technical literature coming from DOE, its laboratories, energy centers, and contractors. Includes all works deriving from DOE, other related government-sponsored information, and foreign nonnuclear information. Arranged under 39 categories, e.g., Biomedical sciences, basic studies; Biomedical sciences, applied studies; Health and safety; and Fusion energy. Entry gives bibliographical information and abstract. Corporate, author, subject, report number indexes.

Digital Design 1981

Architecture Reading Lists and Course Outlines: Architectural design Architectural theory, history and criticism Human behavior Professional practice Special topics Urbandesign theory and history Georgia Bizios 1998

Final Report of the Joint WCRP/SCOR Working Group on Air-Sea Fluxes (SCOR Working Group 110) Joint WCRP/SCOR Working Group on Air-Sea Fluxes 2000

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Predictive Modelling for Energy Management and Power Systems Engineering Ravinesh Deo 2020-09-30 Predictive Modeling for Energy Management and Power Systems Engineering introduces readers to the cutting-edge use of big data and large computational infrastructures in energy demand estimation and power management systems. The book supports engineers and scientists who seek to become familiar with advanced optimization techniques for power systems designs, optimization techniques and algorithms for consumer power management, and potential applications of machine learning and artificial intelligence in this field. The book provides modeling theory in an easy-to-read format, verified with on-site models and case studies for specific geographic regions and complex consumer markets. - Presents advanced optimization techniques to improve existing energy demand system - Provides data-analytic models and their practical relevance in proven case studies - Explores novel developments in machine-learning and artificial intelligence applied in energy management - Provides modeling theory in an easy-to-read format

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