

Sunlighting

as Formgiver for Architecture
William M.C. Lam



Sunlighting As Formgiver For Architecture

Hussin A.Rothana



Sunlighting As Formgiver For Architecture:

Sunlighting as Formgiver for Architecture William M. C. Lam, 1986 Donated **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 *Designing Architecture* Andrew Pressman, 2012-05-04 *Designing Architecture* is an indispensable tool to assist both students and young architects in formulating an idea transforming it into a building and making effective design decisions This book promotes integrative and critical thinking in the preliminary design of buildings to inspire creativity innovation and design excellence This compendium of individual wisdom and collective experience offers explicit guidance to students and young professionals on how to approach analyze and execute specific tasks develop and refine a process to facilitate the best possible design projects and create meaningful architectural form Here the design process from orchestrating client participation to finalizing schematic design is explored and illuminated The following material is presented to make the book a useful didactic tool for professional development explicit strategies for doing design rather than simply reviewing principles and precedents creative ideas in approaching and framing problems in design terms specific methods to translate ideas to culturally significant socially responsive and environmentally sensitive buildings techniques to integrate all levels of cognition from analysis to epiphany counsel on developing a personalized process for engaging design projects case studies augment the text and chronicle fascinating applications of the design process The essence of this book lies in an integrated and holistic approach to each unique project as well as fostering curiosity and exploration a departure from algorithms easy generalities or a formula for design *Designing Architecture* will inspire readers to elevate the quality of preliminary designs and unravel some of the mystery of creating the most beautiful responsive and responsible architectural design possible *Light in Engineering, Architecture and the Environment* Konrad Domke, C. A. Brebbia, 2011 The Wessex Institute of Technology has for years been convening conferences on sustainable architecture and planning design in nature heritage architecture and environmental health With the growing importance of lighting in the creation of better healthier environments the enhancement of heritage architecture and the recovery of urban areas as well as new developments in more sustainable lighting it became clear that a conference focusing on lighting issues would be useful This book contains the papers to be presented at the first International Conference on Lighting in Engineering Architecture and the Environment discussing the latest developments in a variety of topics related to light and illumination from its engineering aspects to its use in art and architecture and the effect of light on living systems and human

health Ranging from discussions of technical issues regarding equipment design and light measurement to human perception of light and the effect of light on human health the book will be of interest to architectures planners environmental health experts and stage designers in academia industry and government as well as colleagues discussing the latest developments in a variety of topics related to light and illumination from its engineering aspects to its use in art and architecture and the effect of light on living systems and human health *Daylight Design of Buildings* Nick Baker,Koen Steemers,2014-01-02 To complement the critical and objective view gleaned from the study of some sixty buildings this design manual has been developed to provide a more synthetic approach to the principles which lie behind successful daylight design These principles are illustrated with examples drawn from the case study buildings The emphasis throughout has been on practical methods to improve design rather than techniques studied for any intrinsic interest The book provides the necessary tools to assist the designer to provide well daylit interiors and shows that good daylight design is not a restriction on architectural expression but on the contrary acts as an inspiration and foundation for good architecture **Daylight, Design and Place-Making** Hisham Elkadi,Sura Al-Maiyah,2020-12-21 Daylight Design and Place Making examines the role of daylight in creating and revealing the wonders of heritage and contemporary architecture Shifting from a purely technical approach to daylighting this book places importance on the creation of meaningful aesthetics through an understanding of context and culture Cultural applications of light in architecture differ depending on various historical technological and social characteristics Increasingly there is a revival of interest in contemporary architecture using daylight as an essential contextual ingredient in the design process By examining the architecture of daylight in different locales and setting these in their historical contexts the book argues that appropriate use of daylight will ensure not only visual and thermal comfort in the urban setting and aid in energy efficiency but also will contribute to the overall identity of new buildings particularly in urban regeneration projects This book brings together an analysis of technical aspects of daylight performance and environmental impact with discussions on the psychology of daylighting and its influence in shaping perceptions of our built environment It will be an ideal read for academics and researchers interested in architecture and cultural studies

Passive Solar Architecture Pocket Reference Ken Haggard,David A. Bainbridge,Rachel Aljilani,2016-04-01 Our pocket reference books provide a wealth of practical information at your fingertips whenever you need it Rich in background detail at a glance tables and diagrams equations and more the Passive Solar Architecture Pocket Reference is a handy resource for architects engineers and students Coverage includes definitions load determinants and Responses including world wide biomes and climates building metabolism and response thermal sources and sinks passive building responses to sources and sinks tuning the building to the environment optimizing insulation thermal mass for comfort contextual aspects including microclimate and siting temperatures humidity wind radiation and comfort parameters passive components including building envelope passive solar terminology orientation apertures and glazing thermal storage thermal control and

materials design tools including sun path diagrams sun peg diagrams air flow relationships thermal modelling and life cycle design specific functions including passive heating passive cooling and ventilation natural lighting passive water heating resource collection and integrated design **Energy Research Abstracts** ,1983 *Metric Handbook* David

Littlefield,2012-09-10 An essential reference resource for any architect or architect student the Metric Handbook is the major handbook for planning and design data For each building type the book gives basic design requirements principal dimensional data and details of relevant building regulations The book also contains information on broader aspects of design applicable to all building types such as materials acoustics and lighting and data on human dimensions and space requirements Significantly updated the new edition of this work focuses on sustainable design practice to make projects competitive within a green market As well as a full revision including additional new building types and the latest updates to regulation and practice the book features an improved new layout with color images and text to make it easier to find vital information quickly Metric Handbook is a tried and tested authoritative reference for solving everyday planning problems it is a must have for every design office desk and drawing board **Mechanical and Electrical Equipment for Buildings**

Walter T. Grondzik,Alison G. Kwok,2014-09-22 The definitive guide to environmental control systems updated with emerging technology and trends The Interactive Resource Center is an online learning environment where instructors and students can access the tools they need to make efficient use of their time while reinforcing and assessing their understanding of key concepts for successful understanding of the course An access card with redemption code for the online Interactive Resource Center is included with all new print copies or can be purchased separately If you rent or purchase a used book with an access code the access code may have been redeemed previously and you may have to purchase a new access code ISBN 978111899616 4 The online Interactive Resource Center contains resources tied to the book such as Interactive Animations Interactive Self tests Interactive Flashcards Case Studies Respondus Testbank instructors only Instructor s Manual over 200 pages including additional resources Instructors only Roadmap to the 12th Edition Instructors only Student Guide to the Textbook Mechanical and Electrical Equipment for Buildings Twelfth Edition is the industry standard reference that comprehensively covers all aspects of building systems With over 2 200 drawings and photographs the book discusses basic theory preliminary building design guidelines and detailed design procedure for buildings of all sizes The updated twelfth edition includes over 300 new illustrations plus information on the latest design trends codes and technologies while the companion website offers new interactive features including animations additional case studies quizzes and more Environmental control systems are the components of a building that keep occupants comfortable and help make the building work Mechanical and Electrical Equipment for Buildings covers both active controls like air conditioners and heaters as well as passive controls like daylighting and natural ventilation Because these systems comprise the entire energy use and costs of a building s life the book stresses the importance of sustainability considerations during the design process by both

architects and builders Authored by two leading green design educators MEEB provides the most current information on low energy architecture including topics like Context comfort and environmental resources Indoor air quality and thermal control Illumination acoustics and electricity Fire protection signal systems and transportation Occupant comfort and building usability are the most critical factors in the success of a building design and with environmental concerns mounting it s becoming more and more important to approach projects from a sustainable perspective from the very beginning As the definitive guide to environmental control systems for over 75 years Mechanical and Electrical Equipment for Buildings is a complete resource for students and professionals alike

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