

Sunlighting

as Formgiver for Architecture
William M.C. Lam



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Ying-Ying Zheng



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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 **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 **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

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

Electric Utility Guide to Marketing Efficient Lighting, 1990

Heating, Cooling, Lighting Norbert M. Lechner, 2014-09-23 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

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

The Way We Build Now Andrew Orton, 2013-06-17 This book examines the structural and construction design of buildings The first part presents an overview of materials and structural forms taking the point of view of the designer architect and engineer The second part is an extensive examination of over 70 case studies They have been carefully selected and tightly structured to present a summary of established modern methods of building construction It contains copious ready reference charts of design information numerous photographs and meticulous axonometric drawings The book is international in scope Dual units are used throughout SI and Imperial and nearly half the case studies are taken from the USA Cases are also drawn from Canada Europe Africa Malaysia Hong Kong as well as 25 from the UK

Advances in Solar Energy Karl W. Böer, 2012-12-06 Advances in Solar Energy now in its fifth year is continuing with topics of the main field of solar energy conversion However because of the increasing interest in a solar systems approach we have decided to include the article of Bockris et al on Hydrogen Technology which offers interesting aspects of transport and storage of solar energy as well as the potential for a versatile fuel The other articles cover the field of photovoltaics solar energy related materials wind conversion solar retrofitting of existing buildings and new architectural designs in harmony with climate and the comfort of all occupants These articles give a critical assessment of the present state of the art and provide a long list of literature for further in depth studies I greatly appreciate the assistance of the Editors and referees of the articles for their many constructive suggestions My special thanks go to Ms Martha Hobbs for her dedicated work in typesetting the manuscript in the University of Delaware s Publication Office and to the University of Delaware for their continued support The accommodating help from Plenum Press and its production staff deserves our grateful acknowledgement

Principles and Practices of Lighting Design: The Art of Lighting Composition Philip Gordon, LC, NCQLD, 2011 A complete handbook on Lighting Design with both Artistic and Technical approaches for the beginning to advanced lighting designer

Design and Construction of Bioclimatic Wooden Greenhouses, Volume 4 Gian Luca Brunetti, 2023-01-25 This book is the fourth of four dealing with bioclimatic design and construction by focusing on the most basic and polyvalent of modern environmental systems the bioclimatic greenhouse the Swiss army chainsaw of architecture More specifically this fourth volume focuses on architectural integration environmental prediction and how to simulate and structurally size a bioclimatic wooden greenhouse In more general terms it helps us to consider how to design and build the structure of bioclimatic low energy architecture with low environmental impact This multi volume book covers both free standing greenhouses that can

naturally heat and cool themselves and lean to greenhouses that support the natural heating and cooling of buildings this includes both agricultural greenhouses and greenhouses suited to host people As a result it is a trans disciplinary work deriving its areas of concern from a broad range of study areas spanning from environmental to constructional to structural drawing the clarity of the approach from the fact that the topics are presented by a single author with a single voice and a designer s mindset To achieve this the book adopts a composite set of explanatory strategies and communication registers including extensive support by 3D construction drawings and examples and presents not only stateof the art solutions but also experimental ones

Building Performance Simulation for Design and Operation Jan L.M. Hensen,Roberto Lamberts,2019-04-24 When used appropriately building performance simulation has the potential to reduce the environmental impact of the built environment to improve indoor quality and productivity as well as to facilitate future innovation and technological progress in construction Since publication of the first edition of Building Performance Simulation for Design and Operation the discussion has shifted from a focus on software features to a new agenda which centres on the effectiveness of building performance simulation in building life cycle processes This new edition provides a unique and comprehensive overview of building performance simulation for the complete building life cycle from conception to demolition and from a single building to district level It contains new chapters on building information modelling occupant behaviour modelling urban physics modelling urban building energy modelling and renewable energy systems modelling This new edition keeps the same chapter structure throughout including learning objectives chapter summaries and assignments Moreover the book Provides unique insights into the techniques of building performance modelling and simulation and their application to performance based design and operation of buildings and the systems which service them Provides readers with the essential concepts of computational support of performance based design and operation Provides examples of how to use building simulation techniques for practical design management and operation their limitations and future direction It is primarily intended for building and systems designers and operators and postgraduate architectural environmental or mechanical engineering students

Solar Energy Update ,1986 *Daylighting in Architecture* Nick V. Baker,A. Fanchiotti,K. Steemers,2015-12-08 Typically one third of the energy used in many buildings may be consumed by electric lighting Good daylighting design can reduce electricity consumption for lighting and improve standards of visual comfort health and amenity for the occupants As the only comprehensive text on the subject written in the last decade the book will be welcomed by all architects and building services engineers interested in good daylighting design The book is based on the work of 25 experts from all parts of Europe who have collected evaluated and developed the material under the auspices of the European Commission s Solar Energy and Energy Conservation R D Programmes

Metric Handbook Pamela Buxton,2018-02-23 Significantly updated in reference to the latest construction standards and new building types Sustainable design integrated into chapters throughout Over half of the entire book has now been updated since 2015 Over

100 000 copies sold to successive generations of architects and designers This book belongs in every design office The Metric Handbook is the major handbook of planning and design data for architects and architecture students Covering basic design data for all the major building types it is the ideal starting point for any project For each building type the book gives the basic design requirements and all the principal dimensional data and succinct guidance on how to use the information and what regulations the designer needs to be aware of As well as buildings the Metric Handbook deals with broader aspects of design such as materials acoustics and lighting and general design data on human dimensions and space requirements The Metric Handbook is the unique reference for solving everyday planning problems **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

ERDA Energy Research Abstracts ,1983

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