

# High-Performance Buildings



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# Windows Systems For High Performance Buildings

**Jane Cho Hua Lin**



## **Windows Systems For High Performance Buildings:**

**Window Systems for High-performance Buildings** John Carmody, Stephen Selkowitz, Eleanor Lee, Dariush Arasteh, 2004 The challenge in designing facades and selecting windows in commercial buildings is balancing many issues and criteria This fact packed handbook outlines the basics of glazing selection and provides critical information and performance data on the energy efficiency interior environment technical and life cycle cost considerations that drive window design decisions in commercial buildings

**A Handbook on Low-Energy Buildings and District-Energy Systems** L.D. Danny Harvey, 2012-08-21 Winner of Choice Magazine Outstanding Academic Titles for 2007 Buildings account for over one third of global energy use and associated greenhouse gas emissions worldwide Reducing energy use by buildings is therefore an essential part of any strategy to reduce greenhouse gas emissions and thereby lessen the likelihood of potentially catastrophic climate change Bringing together a wealth of hard to obtain information on energy use and energy efficiency in buildings at a level which can be easily digested and applied Danny Harvey offers a comprehensive objective and critical sourcebook on low energy buildings Topics covered include thermal envelopes heating cooling heat pumps HVAC systems hot water lighting solar energy appliances and office equipment embodied energy buildings as systems and community integrated energy systems cogeneration district heating and district cooling The book includes exemplary buildings and techniques from North America Europe and Asia and combines a broad holistic perspective with technical detail in an accessible and insightful manner

**Fundamentals of Building Construction** Edward Allen, Joseph Iano, 2013-10-14 Note from the publisher Now in its sixth edition this bestselling reference focuses on the basic materials and methods used in building construction Emphasizing common construction systems such as light wood frame masonry bearing wall steel frame and reinforced concrete construction the new edition includes new information on building materials properties the latest on pre engineered building components and sustainability issues and reflects the latest building codes and standards It also features an expanded series of case studies along with more axonometric detail drawings and revised photographs for a thoroughly illustrated approach

**High Performance Building Façade Solutions** Eleanor Lee, S. Selkowitz, Lawrence Berkeley National Laboratory, 2009

**Energy and the New Reality 1** Danny Harvey, 2010-08-12 Reducing and managing humanity's demand for energy is a fundamental part of the effort to mitigate climate change In this the most comprehensive textbook ever written on the subject L D Danny Harvey lays out the theory and practice of how things must change if we are to meet our energy needs sustainably The book begins with a succinct summary of the scientific basis for concern over global warming then outlines energy basics and current patterns and trends in energy use This is followed by a discussion of current and advanced technologies for the generation of electricity from fossil fuels The book then considers in detail how energy is used and how this use can be dramatically reduced in the following end use sectors buildings transportation industry food and agriculture municipal services The findings from these sector by sector assessments are then applied to

generate scenarios of how global energy demand could evolve over the coming decades with full implementation of the identified and economically feasible energy saving potential The book ends with a brief discussion of policies that can be used to reduce energy demand but also addresses the limits of technologically based improvements in efficiency in moderating demand and of the need to re think some of our underlying assumptions concern ends with a brief discussing what we really need Along with its companion volume on C free energy supply and accompanied by extensive supplementary online material this is an essential resource for students and practitioners in engineering architecture environment and energy related fields Online material includes Excel based computational exercises teaching slides for each chapter links to free software tools

*High Performance Window Systems and Their Effect on Perimeter Space Commercial Building Energy Performance* Ivan Yun Tong Lee, 2010 In the quest for improving building energy efficiency raising the level of performance of the building enclosure has become critical As the thermal performance of the building enclosure improves so does the overall energy efficiency of the building One key component in determining the energy performance of the building enclosure is windows Windows have an integral role in determining the energy performance of a building by allowing light and heat from the sun to enter into a space Energy efficient buildings take advantage of this free solar energy to help offset heating energy consumption and electric lighting loads However windows are traditionally the least insulating component of the modern building assembly With excessive use larger window areas can lead to greater occupant discomfort and energy consumption from greater night time heat loss higher peak and total cooling energy demand from unwanted solar gains and discomfort glare As a result windows must be carefully designed to not only minimize heat loss but also effectively control solar gains to maintain both a thermally and visually comfortable environment for the appropriate climate region and orientation In this thesis a complete analysis of window assemblies for commercial office buildings is presented The analysis is divided into three sections the Insulated Glazing Unit IGU the Curtain Wall Section frames and the overall energy performance of a typical office building The first section investigates the performance characteristics of typical and high performance IGUs specifically its insulating value  $U_{cg}$  its solar heat gain properties Solar Heat Gain Coefficient SHGC and its visual transmittance VT through one dimensional heat transfer and solar optical modeling Mechanisms of heat transfer across IGUs were investigated giving insight into the parameters that had the most significant effect on improving each performance characteristic With a through understanding of IGU performance attainable performance limits for each of property were generated from combining of different glazing materials fill gases and coatings Through the right combination of materials IGU performance can be significantly altered The U value performance of IGUs ranges from  $2.68 \text{ W m}^{-2}\text{K}^{-1}$  for a double glazed clear air filled IGU to  $0.27 \text{ W m}^{-2}\text{K}^{-1}$  for a quint glazed low E xenon filled high performance IGU The second part of the thesis looks at the thermal performance of curtain wall sections that hold the IGU through two dimensional heat transfer modeling Similar to the IGUs heat transfer mechanisms were studied to by substituting different

materials to determine which components are crucial to thermal performance. From this analysis improvements were made to typical curtain wall design that significantly reduces the overall heat transfer within the frame section producing a high performance curtain wall section. With simple modifications a high performance curtain wall section can reduce its U value by as much as 81% over a typical curtain wall section going from 13.39 W/m<sup>2</sup>K to 2.57 W/m<sup>2</sup>K. Thus significantly reducing the U value of curtain wall systems particularly for smaller windows. The final part of the thesis examines the impact of typical and high performance windows on the energy performance of perimeter offices of a high rise commercial building located in Southern Ontario. An hourly simulation model was set up to evaluate both the annual and peak energy consumption of a typical perimeter office space. The office faced the four cardinal directions of north, east, south and west to evaluate the effect of orientation. The model also included continuous dimming lighting controls to make use of the available daylight. The effect of exterior shading on perimeter space energy performance was also investigated with both dynamic and static exterior shading devices. The results of the simulations revealed that window properties have very little influence on the energy performance of a high internal heat gain office that is typical of older offices with less energy efficient office equipment and lighting and a higher occupant density. Conversely window properties particularly the insulating value of the window has a greater effect on the energy performance of a mid to low internal heat gain office that is typical of most modern day commercial buildings. The results show windows with lower U values yet higher SHGC are preferred over windows of similar U values but with lower SHGC. The results also indicate that both static and dynamic shading have very little effect on energy performance of mid to low internal heat gain offices. From this analysis optimal window areas in the form of window to wall ratios (WWR) are presented for each orientation for mid to low internal heat gain offices. The optimal WWR for south facing facades are between 0.50 to 0.66 and 0.30 to 0.50 for east, west and north facing facades while for high internal heat gain perimeter spaces window areas should be kept to a minimum.

### **High Performance Building**

**Guidelines** New York (N.Y.). Department of Design and Construction, 1999

**Residential Windows 3e** John Carmody, 2007-06-26. The authoritative guide for homeowners and builders updated and expanded with new photographs and diagrams. This guide provides all the information necessary to evaluate windows and make intelligent choices. It includes revised energy performance and cost information for more locations, advances in emerging technologies, revised and expanded sections on comfort, durability and life cycle performance, new information on window installation methods, building codes and impact resistant windows and much more. Illustrated.

Proceedings of Windows in Building Design and Maintenance, 1987

**Influence of Project Delivery Methods on Achieving Sustainable High Performance Buildings** Lipika Swarup, 2010

Journal of Green Building, 2006

The Practice of Designing Operable Windows in Office Buildings Jane Cho, Hua Lin, 2005

*1994 ACEEE Summer Study on Energy Efficiency in Buildings: Demonstrations and retrofits*, 1994

**Building Operating Management**, 1994

**Guide to Resource Efficient Building Elements**

,1995 *Building Industry Technology*, 1985 *Buildings*, 1981 *Architectural Engineering: New Concepts, New Methods, New Materials, New Applications* Architectural Record (New York, N.Y.), 1925 *Ajfocus*, 1988 **Proceedings of the ASME Advanced Energy Systems Division** American Society of Mechanical Engineers. Advanced Energy Systems Division, 2007

## Unveiling the Magic of Words: A Overview of "**Windows Systems For High Performance Buildings**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Windows Systems For High Performance Buildings**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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