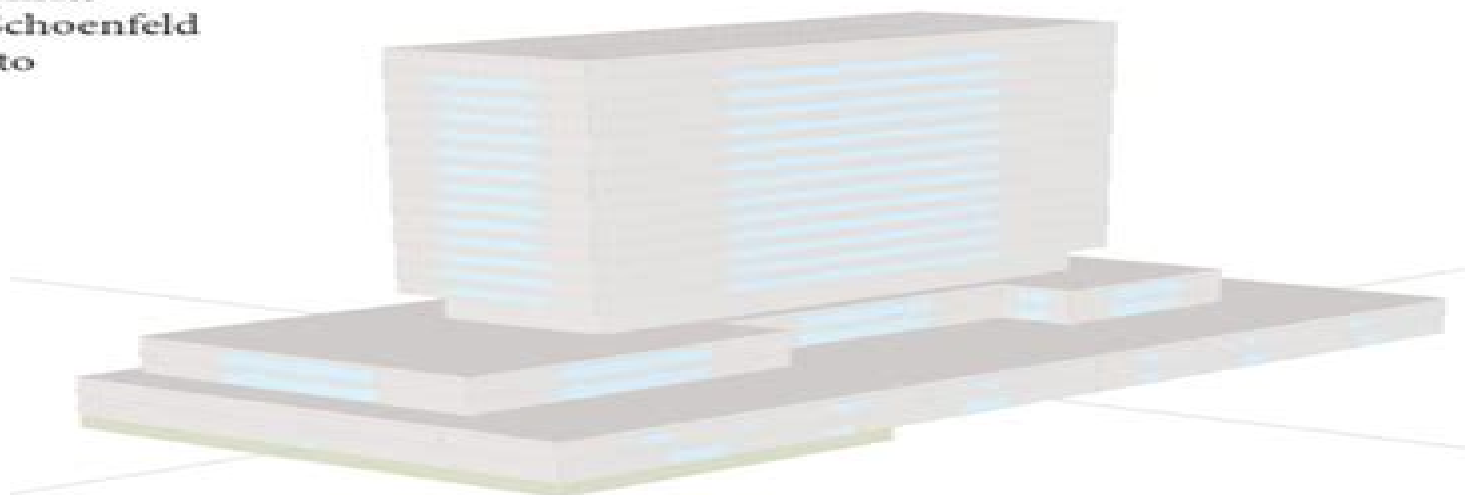


Building Energy Modeling

An ASHRAE Certification Study Guide

Sanjiv (Sunny) Devnani
Sean Harleman
Jonathan Schoenfeld
Warren Seto



- Road map to prepare for ASHRAE's BEMP certification
- Excerpts from ASHRAE resources for energy modeling
- Where to find other essential energy modeling guidance
- How each resource impacts energy modeling
- Review of resources needed for energy modeling practitioners

Ashrae Bemp Study Guide

Scott Dunning, Larry S. Katz



Ashrae Bemp Study Guide:

Building Energy Modeling Sanjiv Devnani, Sean Harleman, Jonathan Schoenfeld, Warren Seto, 2012-01-25 While the best teacher of best practices is hands on work experience even the most seasoned professionals may want additional resources to support their knowledge bases Building Energy Modeling An ASHRAE Certification Study Guide supplies this additional information by delineating for practitioners the current editions of standards and other references necessary for building energy modeling and assists in preparation for ASHRAE s Building Energy Modeling Professional BEMP certification As interest in building sustainability has increased so has interest in energy modeling as a tool for achieving building energy savings ASHRAE recognizes the importance of energy modeling to the processes for designing building operating and maintaining buildings and facilities and thus has attempted to create a comprehensive package of resources that includes publications educational courses and a certification program Excerpts of the relevant publications are included in the study guide along with the program s full detailed content outline DCO which is a blueprint for the certification examination and a DCO matrix that serves as a roadmap for identifying the essential resources for ASHRAE s BEMP certification program It lays out in a single table which sections of the resources are applicable to the different sections of the examination As much as possible this study guide identifies the specific areas on the program s DCO that each reference helps support This publication is also a valuable resource for any individual in the building energy modeling field whether aiming to be ASHRAE certified or not Full of a multitude of references this guide serves as an indispensable source of information related to building energy modeling If an individual s goal is to take ASHRAE s Building Energy Modeling Professional certification BEMP exam this guide helps to focus study effort The guide does not teach one how to perform building energy modeling

Design Professional's Guide to Zero Net Energy Buildings Charles Eley, 2016-11-15 In the Design Professional s Guide to Zero Net Energy Buildings Charles Eley draws from over 40 years of his own experience and interviews with other industry experts to lay out the principles for achieving zero net energy ZNE buildings which produce as much energy as they use over the course of a year Eley emphasizes the importance of building energy use in achieving a sustainable future describes how building energy use can be minimized through smart design and energy efficiency technologies and presents practical information on how to incorporate renewable energy technologies to meet the lowered energy needs The book shows the reader through examples and explanations that these solutions are viable and cost effective

Net Zero Energy Design Thomas Hootman, 2012-10-15 Conveniently organized and packed with robust technical content and clear explanations of key principles Written by an architect who is the director of sustainability at a global architecture firm Net Zero Energy Design is a practical guide for architects and related construction professionals who want to design and build net zero energy commercial architecture It offers no nonsense strategies step by step technical analysis and valuable examples in addition to developed case studies With a focus on application in a variety of building types and scales the book also develops a broad

based understanding of all the integrated principles involved in achieving net zero energy This book is an indispensable resource for anyone venturing into net zero energy design construction and operation and it also serves as an excellent resource on a variety of sustainable design topics Important features include Organization based upon the commercial building delivery process Robust technical content for use in actual project applications Analysis examples that demonstrate key technical principles Plenty of design data for use as a valuable design resource Abundant and sophisticated information graphics and color illustrations and photographs A distinct design focus on the content that inspires adoption of principles into projects

Energy Calculations and Problem Solving Sourcebook Scott Dunning, Larry S. Katz, 2020-11-26 Based on the Body of Knowledge this book is designed to serve as a practical guide for energy professionals preparing to take AEE's Certified Energy Manager CEM examination The reference presents an overview of the specific areas of expertise referenced in the current Body of Knowledge in a guided preparatory format including detailed specifically targeted reference materials The full scope of energy calculations and problem solving strategies which must be mastered are presented covering relevant codes and standards energy accounting and economics electrical lighting and HVAC systems motors and drives industrial systems building envelope building automation and control systems renewable energy boiler and steam systems thermal storage maintenance commissioning alternative financing and much more Green Building LEED and Energy Star programs are also addressed The appendix provides a broad range of useful reference tables as well as mathematical formulas specific to each specific area of energy management addressed While aimed at those taking the ANSI certified CEM exam this text is also an excellent reference to be used throughout an energy manager's professional career

ASHRAE Pocket Guide for Air Conditioning, Heating, Ventilation and Refrigeration, 1993

ASHRAE Design Guide for Tall, Supertall, and Megatall Building Systems Peter Simmonds, 2016-03-07 The Guide to Meeting the Challenges of Tall Buildings Tall buildings present unique and formidable challenges to architects and engineers because of their size location in major urban areas and the multiple complex occupancies they often contain ASHRAE Design Guide for Tall Supertall and Megatall Building Systems is a unique reference for owners architects and mechanical structural and electrical engineers as well as other specialized consultants involved in designing systems for these buildings Expanded since ASHRAE's previous guide on the topic in 2004 this new design guide covers not only tall buildings taller than 300 ft 91m but now also addresses supertall taller than 984 ft 300 m and megatall taller than 1968 ft 600 m buildings with a broadened scope and updated content that reflects current standards and industry practices This guide not only focuses on the efforts of designers of the HVAC systems but also addresses the importance of the design team and their collective efforts and concerns that are the critical elements in determining the ultimate solutions to the project needs of a tall building This guide addresses design issues for tall commercial buildings which are very often mixed use with low level retail office floors residential floors and hotel floors Major sections cover the following subjects Architectural design Fa ade systems Climate data Indoor air quality IAQ and

thermal comfort HVAC systems Electrical system interfaces Intelligent buildings and controls Water distribution Plumbing systems Energy modeling and authentication Vertical transportation Life safety Needs of residential occupancies Also included are appendices with examples of stack effect and wind pressure for four representative climates energy analysis examples and HVAC design criteria and a systems description for a multiple tenant office building **ASHRAE Pocket Guide for Air Conditioning, Heating, Ventilation, Refrigeration** ,1989 *The ASHRAE Guide for Buildings in Hot and Humid Climates* ,2009 Focuses on needs of owners architects and engineers who build and manage buildings in hot and humid climates includes info on building enclosures dehumidification sustainability mold avoidance energy reduction moisture management and techniques for reducing energy consumption in hot and humid climates based on real world field experience and ASHRAE research Provided by publisher **ASHRAE Pocket Guide for Air Conditioning, Heating, Ventilation, and Refrigeration** American Society of Heating, Refrigerating and Air-Conditioning Engineers,1997

ASHRAE Laboratory Design Guide Ian B. D. McIntosh,Chad B. Dorgan,Charles E. Dorgan,Ashrae,2001-01-01 The ASHRAE Laboratory Design Guide has been organized and developed to provide owners designers contractors and operators with key information on the essential requirements for achieving high quality laboratory facilities This design guide can be used for the design troubleshooting and operation of laboratory facilities or can be used as a comprehensive reference

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