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Procedures for Commercial Building Energy Audits
Island Press

Heating and Cooling of Buildings: Principles and Practice of Energy Efficient Design, Third Edition is structured to provide a rigorous and comprehensive technical foundation and coverage to all the various elements inherent in the design of energy efficient and green buildings. Along with numerous new and revised examples, design case studies, and homework problems, the third edition includes the HCB software along with its extensive website material, which contains a wealth of data to support design analysis and planning. Based around current codes and standards, the Third Edition explores the latest technologies that are central to design and operation of today ' s buildings. It serves as an up-to-date technical resource for future designers, practitioners, and researchers wishing to acquire a firm scientific foundation for improving the design and performance of buildings and the comfort of their occupants. For engineering and architecture students in undergraduate/graduate classes, this comprehensive textbook:

[The Design, Construction, and Operation of Sustainable Buildings](#) Ashrae

"Designed to provide recommendations for achieving 50% energy savings over the minimum code requirements of ANSI/ASHRAE/IESNA Standard 90.1-2004 for large hospitals; allows contractors, consulting engineers, architects, and designers to easily achieve advanced levels of energy savings without having to resort to detailed calculations or analyses"--

Icc/Ashrae 700-2015 National Green Building Standard Atlantic Publishing Company

The leading green building reference, updated with the latest advances in the field Sustainable Construction is the leading reference for the design, construction, and operation of high performance green buildings. With broad coverage including architecture, engineering, and construction, this

book nevertheless delivers detailed information on all aspects of the green building process, from materials selection to building systems and more. This new fourth edition has been updated to reflect the latest codes and standards, including LEED v4, and includes new coverage of carbon accounting. The discussion has been updated to align with the current thinking on economics, climate change, net zero buildings, and more, with contributions by leaders in the field that illustrate the most recent shifts in thinking and practice. Ancillary materials including an instructor's manual and PowerPoint presentations for each chapter help bring this clear and up-to-date information into the classroom, making this book a valuable reference for working construction professionals. Also, Interactive graphics found throughout the course help activate the content and highlight key concepts for students. Sustainable construction has gone mainstream, and will one day be the industry norm. This book provides a comprehensive reference to all aspects of a project to show you how green building concepts and principles apply throughout the design and construction process. Get up to date on the latest green building codes and standards Learn about the newest technology in green building materials Adopt the best practices in procurement and delivery systems Apply sustainability concepts to all aspects of construction and design Green buildings operate at a very high level of efficiency, which is made possible only by careful consideration every step of the way. Appropriate land use, landscaping, construction materials, siting, water use, and more all play a role in a structure's ultimate carbon footprint. Sustainable Construction provides clear guidance for all aspects of green building, including the most recent advances and the latest technology.

Advanced Energy Design Guide for Large Hospitals John Wiley & Sons
Market: architects; engineers; project

managers; general contractors; cost estimators; property and real estate managers; facility managers; property developers International appeal: includes 25 project profiles from the US, Canada, United Kingdom, Australia, Spain, China, and India Thirty key players share their experiences and lessons learned from working on green building projects
Sustainable Construction CRC Press
Successfully Measure the Benefits of Green Design and Construction Sustainability in Engineering Design and Construction outlines the sustainable practices used in engineering design and construction operations for all types of engineering and construction projects. Aimed at ushering the engineering and construction industry into embracing sustainable practices and green construction techniques, this book addresses sustainability in engineering design and construction operations from a historical and global perspective, and delves into specific sustainability concepts and processes. The book explains the concepts of sustainable development, corporate social responsibility (CSR), the Dow Jones Global Sustainability Index (DJGSI), key performance indicators (KPIs), corporate sustainability, and the triple bottom line (economic, environmental, and social values in design and construction). Relevant to sustainability in every facet of engineering and construction, it also covers life-cycle environmental cost analysis, discusses sustainable engineering and site selection, the economic considerations evaluated when making sustainability decisions, and explains how to measure and quantify sustainable performance and apply these practices in the real world. It also covers project and corporate level sustainability practices, sustainable construction materials and processes, sustainable heavy construction equipment, traditional and alternative energy sources, provides implementation resources for starting and evaluating sustainability programs, and includes a checklist for measuring the sustainability of construction operations. The text contains detailed information on sustainable construction materials and processes, heavy construction equipment, and traditional and alternative energy sources. It presents information on sustainable designs, selecting sustainable sites, designing for passive survivability, designing for disassembly, and the ISO 14,000 standards. It provides implementation resources for starting and evaluating sustainability programs and a checklist for measuring the sustainability of construction operations In addition, it provides definitions of sustainability terms and expressions, as well as case studies, examples, discussion questions, and a list of

supplemental references at the end of each chapter. This book provides information on: Definitions for sustainability terms Sources for locating global sustainability requirements Current sustainability issues Environmental laws related to sustainability and their implications Sustainable design Life-cycle cost assessment models Sustainable practices currently being used in the engineering and construction (E&C) industry Corporate-level sustainability practices Project-level sustainability practices Global sustainability trends and implications Sustainable materials Sustainable heavy construction equipment Traditional and alternative energy sources LEED Green Building Rating System Sustainability organizations and certification programs Sustainability implementation resources A summary of sustainable engineering design and construction The Green Studio Handbook Cengage Learning

The new edition of a bestseller, this book is one of the leading educational resources for energy manager or energy professional as well as new people enter the field of energy management and energy engineering. It is the most widely used college and university textbook, as well as one of the most widely used books for professional development training. New topics include energy auditing, energy bills, life cycle costing, electrical distribution systems, boilers, steam distribution systems, control systems and computers, energy systems maintenance, insulation, compressed air, renewable energy sources and water management, distributed generation, and creating green buildings.

Data Center Handbook Amer Society of Heating

"The ASHRAE GreenGuide was developed primarily to provide guidance to designers of HVAC&R systems in how to participate effectively on design teams charged with producing green buildings"--Provided by publisher.

Sustainable Construction for Engineers CRC Press

This book provides readers with essential knowledge enabling the successful design of today's new energy efficient HVAC systems. The author introduces important concepts such as Knowledge Categorization, Performance Based Design Standards, and Quantification of Uncertainty in Energy Modeling for Buildings. Pivotal topics that all HVAC and architectural engineers must master in order to navigate the green building renaissance are given focused attention, including the role of renewables, air quality, automatic controls, and thermal comfort. Relevant ASHRAE standards, as well as sustainability scoring systems such as BREEAM, HQE, LEED and CASBEE are explained in depth. Armed with the

material contained in this practical reference, students and practitioners alike will become more effective and prepared for engineering success.

LSC LS4(EDMC) VSXML Ebook Green Building Through Integrated Design (GreenSource Books) John Wiley & Sons

"Reference manual for planning, design, and operation of laboratory HVAC systems to reduce the laboratory's energy footprint while ensuring safety, providing good comfort and indoor air quality, and protecting the integrity of experiments; includes online access to electronic design tools that illustrate features of laboratories and provide practical design aids"--

Moisture Control Guidance for Building Design, Construction and Maintenance Amer Society of Heating

With a focus on how to apply proven ?Green Building Technology? to the design and energy use of a building, the ASHRAE GreenGuide provides mechanical engineers, architects, and construction engineers hand?s-on, needed tips on everything from site location to the latest in energy-saving HVAC Systems. This new edition will carry that invaluable practical help forward with the latest on LEED (Leadership on Energy and Environmental Design) guidance as promulgated by the U.S. Green Buildings Council and will offer the latest in sustainable materials and systems specifications. Moreover, the new edition will be better organized around the actual construction project sequence from important Green decisions that must be made at the pre-design and programmatic phases on through the actual construction documents and specifications and eventual Post-occupancy. It will also be greatly enhanced with new ?Green Tips,? including an expanded version of the Green Tip that focuses on specific building types. Dual units have been provided as well as more international HVAC engineering representation in the content authorship. No other guide of this kind offers the authority and accuracy on green HVAC and building technologies like this book. * Offers the latest information on Building Automation Systems, Renewable Energy Options, CHP and GSHP systems, and Construction Issues. * Provides dual units as well as more international HVAC engineering coverage * Graphs, photographs, renderings and diagrams have been improved, or added where necessary, to provide a more complete overview of specific subject matter and to provide better clarity of detail. * References will be expanded and updated in order to make the Second Edition as current as possible when it is published, including an extensive listing of online resources.

Guide to Energy Management Green Building FC

A Complete Guide to Building and Maintaining Green Roofs Written by an industry expert in green roof design and installation, this GreenSource book presents all of the information you need to skillfully design,

construct, and maintain green roofs. You will find a wealth of practical details gathered through real-world implementations and independent research. Green Roof Construction and Maintenance explains how to design a green roof, plan for irrigation and drainage, select and place soil and plants, and maintain the entire setup. The book also discusses return on investment, LEED design specifications, and the myriad short- and long-term environmental benefits of green roofs. Filled with step-by-step illustrations and full-color photographs, this is a valuable, hands-on guide to a rapidly emerging trend in the sustainability movement. Green Roof Construction and Maintenance includes: Key questions to ask at each stage of the green building process Tested tips and techniques for successful structural design Construction methods for new and existing buildings Information on insulation, drainage, detailing, irrigation, and plant selection Details on optimal soil formulation Illustrations featuring various stages of construction Best practices for green roof maintenance A survey of environmental benefits, including evapo-transpiration, storm-water management, habitat restoration, and improvement of air quality Tips on the LEED design and certification process Considerations for assessing return on investment Color photographs of successfully installed green roofs Useful checklists, tables, and charts ASHRAE Greenguide Routledge Procedures for Commercial Building Energy Audits provides purchasers and providers of energy audit services with a complete definition of good procedures for an energy survey and analysis. It also provides a format for defining buildings and their energy use that will allow data to be shared in meaningful ways. This publication specifically avoids a "cookbook" approach, recognizing that all buildings are different and each analyst needs to exercise a substantial amount of judgment. Instead, Procedures sets out generalized procedures to guide the analyst and the building owner, and provides a uniform method of reporting basic information. Different levels of analysis are organized into the following categories:Preliminary Energy Use Analysis Level I Analysis "Walk-Through Analysis Level II Analysis"Energy Survey and Analysis Level III Analysis"Detailed Analysis of Capital-Intensive Modifications The book comes with a CD that provides more than 25 guideline forms, with explanatory material, to illustrate the content and arrangement of a complete, effective energy analysis report. The CD provides these forms in both PDF and Word format, enabling you to customize and print each form. For the downloadable version, the PDF of the book and the guideline forms are included in a single .zip file. You will need WinZip or an equivalent program to open the file. ASHRAE Research Project 669 and ASHRAE Special Project 56.

Achieving Zero Energy John Wiley & Sons Provides the fundamentals, technologies, and best practices in designing, constructing and managing mission critical, energy efficient data centers Organizations in need of high-speed connectivity and nonstop systems operations depend upon data centers for a range of deployment solutions. A data center is a facility used to house computer systems and associated components, such as telecommunications and storage systems. It generally includes multiple power sources, redundant data communications connections, environmental controls (e.g., air conditioning, fire suppression) and security devices. With contributions from an international list of experts, The Data Center Handbook instructs readers to: Prepare strategic plan that includes location plan, site selection, roadmap and capacity planning Design and build "green" data centers, with mission critical and energy-efficient infrastructure Apply best practices to reduce energy consumption and carbon emissions Apply IT technologies such as cloud and virtualization Manage data centers in order to sustain operations with minimum costs Prepare and practice disaster recovery and business continuity plan The book imparts essential knowledge needed to implement data center design and construction, apply IT technologies, and continually improve data center operations.

Energy Calculations and Problem Solving Sourcebook CRC Press

"The third edition of the ASHRAE GreenGuide features information for anyone charged with designing a sustainable building on a variety of green-design issues that should be considered when tasked with this type of project"--
The Building Environment Amer Society of Heating

"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.

Green Roof Construction and Maintenance (GreenSource Books) Lulu Press, Inc

"A guide to assist designers, contractors, and engineers in constructing and maintaining buildings in cold-climate environments. Provides practical advice on the unique challenges faced when trying to maintain human comfort and energy-efficiency in cold, subarctic, and arctic climates"--

Ashrae Greenguide Butterworth-Heinemann "Completely revised and edited throughout, this latest edition includes new chapters on

creating green buildings and web-based building automation controls along with a comprehensive revision of the chapter on lighting. Written by three of the most respected energy professionals in the industry, this book examines the fundamental objectives of energy management and illustrates techniques and tools proven effective for achieving results. Topics include distributed generation, energy auditing, rate structures, and economic evaluation techniques as well as lighting efficiency improvement, HVAC optimization, combustion and use of industrial wastes, and steam generation and distribution system performance."--Publisher description.
Fundamentals of Integrated Design for Sustainable Building McGraw-Hill Professional Pub

In this book, you will learn how to protect the building occupants' health, improve employee productivity, use resources more efficiently, reduce your impact on the environment, select a site for a new building, protect and maintain the current landscape, use recycled content and natural lighting, install high-efficiency lighting systems, select heating and cooling systems and materials, and use dimensional planning and material efficiency strategies. You will also learn everything you need to know about water savings, energy efficiency, environmentally friendly building materials, indoor environmental quality, building shape and orientation, alternative energy sources, dual plumbing, green building guidelines, gray water systems, water-conserving fixtures, the costs and financial benefits of building green, foundations, floors, and roofing.

The Green Building Bottom Line The Fairmont Press, Inc.

"Provides information on green-building design. Concerned with sustainable, high-performance projects"--

Recognition, Evaluation, and Control of Indoor Mold Ashrae Greenguide Design, Construction, and Operation of Sustainable Buildings
THE DEFINITIVE GUIDE TO HVAC DESIGN This practical manual describes the HVAC system design process step by step using photographs, drawings, and a discussion of pertinent design considerations for different types of HVAC components and systems. Photographs of HVAC components in their installed condition illustrate actual size and proper configuration. Graphical representations of the components as they should appear on construction drawings are also included. Learn how to design HVAC systems accurately and efficiently from this detailed resource. HVAC DESIGN SOURCEBOOK
COVERS: The design process HVAC load calculations Codes and standards Coordination with other design disciplines Piping, valves, and specialties Central plant equipment and design Air system equipment and design Piping and ductwork distribution systems Terminal equipment Noise

and vibration control Automatic temperature controls Construction drawings