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ARNAV RAIDEN

NW 41st Street Immigration and Naturalization Service (INS) Proposed Lease Consolidation, Dade County John Wiley & Sons Issues for 1955 accompanied by supplement: Construction volume and costs, 1915-1954.

Lighting Design + Application Amer Society of Heating Geothermal Heating and Cooling is a complete revision of Ground-Source Heat Pumps: Design of Geothermal Systems for Commercial and Institutional Buildings, which is recognized as the primary reference for nonresidential ground-source heat pump (GSHP) installations. This new work takes advantage of the many lessons learned since the time of the original publication, when GSHPs were primarily residential applications. Many improvements have evolved, and performance data, both positive and negative, is now available to guide the development of best practices. This essential guide for HVAC design engineers, design-build contractors, GSHP subcontractors, and energy/construction managers also provides building owners and architects with insights into characteristics of quality engineering firms and the information that should be provided by design firms competing for GSHP projects. This revision draws on new ASHRAE and industry research in critical areas, as well as measured data from long-term installations and optimized installation practices used by high-production GSHP contractors. Nearly all chapters and appendices were completely rewritten, and they include coverage of closed-loop ground (ground-coupled), groundwater, and surface-water systems plus GSHP equipment and piping. Additional information on site characterization has been added, including a new hydrogeological chapter. Another new chapter contains results of recent field studies, energy and demand characteristics, and updated information to optimize GSHP system cost. While other publications deal primarily with ground-coupled heat pumps, this text includes detailed coverage of groundwater, surface-water, and GSHP costs. Tables, graphs, and equations are provided in both Inch-Pound (I-P) and International System (SI) units. As a bonus, supplemental Microsoft® Excel® macro-enabled spreadsheets for a variety of GSHP calculations accompany the text.

Construction Review Ashrae

The 2021 IECC addresses energy efficiency on several fronts including cost, energy usage, use of natural resources and the impact of energy usage on the environment.

Transactions CRC Press

Armed with this book's expert advice and plentiful examples of successful initiatives, public libraries will feel empowered to make a difference in community members' health and well-being.

Advanced Energy Design Guide for Small Office Buildings John Wiley & Sons

A respected resource for decades, the Guide for the Care and Use of Laboratory Animals has been updated by a committee of experts, taking into consideration input from the scientific and laboratory animal communities and the public at large. The Guide incorporates new scientific information on common laboratory animals, including aquatic species, and includes extensive references. It is organized around major components of animal use: Key concepts of animal care and use. The Guide sets the framework for the humane care and use of laboratory animals. Animal care and use program. The Guide discusses the concept of a broad Program of Animal Care and Use, including roles and responsibilities of the Institutional Official, Attending Veterinarian and the Institutional Animal Care and Use Committee. Animal environment, husbandry, and management. A chapter on this topic is now divided into sections on terrestrial and aquatic animals and provides recommendations for housing and environment, husbandry, behavioral and population management, and more. Veterinary care. The Guide discusses veterinary care and the responsibilities of the Attending Veterinarian. It includes recommendations on animal procurement and transportation, preventive medicine (including animal biosecurity), and clinical care and management. The Guide addresses distress and pain recognition and relief, and issues surrounding euthanasia. Physical plant. The Guide identifies design issues, providing construction guidelines for functional areas; considerations such as drainage, vibration and noise control, and environmental monitoring; and specialized facilities for animal housing and research needs. The Guide for the Care and Use of Laboratory Animals provides a framework for the judgments required in the management of animal facilities. This updated and expanded resource of proven value will be important to scientists and researchers, veterinarians, animal care personnel, facilities

managers, institutional administrators, policy makers involved in research issues, and animal welfare advocates.

HVAC Design Manual for Hospitals and Clinics APIC

The 2012 ASHRAE Handbook--HVAC Systems and Equipment discusses various systems and the equipment (components or assemblies) they comprise, and describes features and differences. This information helps system designers and operators in selecting and using equipment. An accompanying CD-ROM contains all the volume's chapters in both I-P and SI units.

Advanced Energy Design Guide for Small to Medium Office Buildings McGraw Hill Professional

"Achieving 30% energy savings over ANSI/ASHRAE/IESNA standard 90.1-1999."

Guide for the Care and Use of Laboratory Animals Yale University Press

Although it is widely understood that energy and water are the world's two most critical resources, their vital interconnections and vulnerabilities are less often recognized. This farsighted book offers a new, holistic way of thinking about energy and water—a big picture approach that reveals the interdependence of the two resources, identifies the seriousness of the challenges, and lays out an optimistic approach with an array of solutions to ensure the continuing sustainability of both. Michael Webber, a leader and teacher in the field of energy technology and policy, explains how energy and water supplies are linked and how problems in either can be crippling for the other. He shows that current population growth, economic growth, climate change, and short-sighted policies are likely to make things worse. Yet, Webber asserts, more integrated planning with long-term sustainability in mind can avert such a daunting future. Combining anecdotes and personal stories with insights into the latest science of energy and water, he identifies a hopeful path toward wise long-range water-energy decisions and a more reliable and abundant future for humanity.

Solar Radiation and Daylight Models American Society of Heating Refrigerating and Air-Conditioning Engineers

Finding solutions to indoor air quality problems is often a complex, multifaceted endeavor. This practical desk reference serve as a guide and information resource - both on treating existing indoor air problems effectively - and on preventing costly IAQ problems from occurring in the first place. A single discipline approach unfortunately tends to narrow both the control and the treatments options. This book cuts across professions to offer those concerned with the total facility a broader, more comprehensive approach to managing indoor air quality and mitigating indoor air quality problems. The fifth edition is extensively updated and edited in response to the rapid pace of changes and advances in the IAQ industry.

ASHRAE Handbook Routledge

For the building owner, administrator, or facilities manager who must deal with the realities of today's indoor environmental concerns, this fully updated reference is a practical, hands-on guide. You'll find readily applicable air quality control measures and preventative strategies that can head off the "headaches" -- both economic and legal -- that can grow out of an air quality problem. You'll also learn the critical aspects of complete response and step-by-step investigation tactics and tools. Specific symptoms of building-associated illnesses are detailed along with practical guidelines for identifying and controlling the associated pollutant or source of the problem.

The Long Boom Amer Society of Heating

This optimistic text examines and predicts the 40-year period from 1980-2020 as the key years of a remarkable economic transformation.

Construction and Renovation CRC Press

Learn the latest eco-friendly construction practices and study for the certification exam This comprehensive guide covers green design and building techniques for the construction industry and contains all the tools you need to prep for certification. Sustainability in Construction: LEED Green Associate Certification Preparation targets the many disciplines of environmentally friendly building, including construction, engineering, architecture, business management, real estate, and marketing. The book features complete explanations of sustainable sites, water efficiency, energy, materials, indoor environmental quality, and much more. You will also get an accurate mock-up LEED Green Associate Exam complete with answers. Coverage includes: An overview of green construction practices Leadership in Energy and Environmental Design (LEED) core concepts United States Green Building Council (USGBC) and LEED fundamentals Location and Transportation (LT) Sustainable Sites (SS) Water Efficiency

(WE) Energy and Atmosphere (EA) Materials and Resources (MR) Indoor Environmental Quality (EQ) Innovation (IN) and Regional Priority (RP) LEED Green Associate study materials, including a complete practice exam

SV. Sound and Vibration American Library Association

Health care HVAC systems serve facilities in which the population is uniquely vulnerable and exposed to an elevated risk of health, fire, and safety hazard. These heavily regulated, high-stakes facilities undergo continuous maintenance, verification, inspection, and recertification, typically operate 24/7, and are owner occupied for long life. The HVAC systems in health care facilities must be carefully designed to be installed, operated and maintained in coordination with specialized buildings services, including emergency and normal power, plumbing and medical gas systems, automatic transport, fire protections and a myriad of IT systems, all within a limited building envelope.

Research and Innovation in the Building Regulatory Process National Academies Press

The cost of operating a building far exceeds the cost of constructing it, and yet until recently little attention was paid to the impact of solar radiation on the costs of heating, cooling and ventilation. And now that there has been a surge in interest in energy efficiency and solar design, architects and designers need a practical guide to the modelling and application of solar energy data. There are many different models and techniques available for calculating the distribution of solar radiation on and in buildings, and these algorithms vary considerably in scope, accuracy and complexity. This book demonstrates which of these predictive tools gives the best results in different circumstances, including explaining which models can be best used in different parts of the world. The author has had over twenty-five years of experience of dealing with solar energy data from four continents and has used that experience in this book to show the development not just of knowledge but also the growing sophistication of the models available to apply it.

2010 ASHRAE Handbook Texere Publishing

Proven Strategies for Getting a Project LEED® Certified Here is the ideal guide for architects, engineers, interior designers, project managers, facility managers, and building owners for understanding the project certification process for the Leadership for Energy and Environmental Design (LEED®) for New Construction and Major Renovations (LEED NC), LEED for Core & Shell (LEED CS), and LEED for Commercial Interiors (LEED CI) rating systems of the U.S. Green Building Council (USGBC®). Written by an expert who is the President of Design Management Services, a LEED consulting firm?Guidebook to the LEED Certification Process engages readers by outlining the steps, roles, and responsibilities of the team members in a straightforward, chronological manner that helps streamline the certification process. With the release of the LEED v3 rating systems and a new version of LEED-Online, the Guidebook to the LEED Certification Process helps project teams to streamline the project team efforts and outlines the role of the LEED consultant and project administrator. Written for LEED AP professionals and building owners that need guidance navigating a project through the process, this book outlines each step in the design and construction phases including programming and post-occupancy. Serving as a valuable resource for anyone seeking information on how to get a project LEED certified, Guidebook to the LEED Certification Process features: An overview of the integrative design process. Understanding the role of a LEED consultant. How to build a successful team for a project pursuing LEED certification. How to register a project with Green Building Certification Institute (GBCI). Common pitfalls to avoid during the LEED certification process. Checklists to use during design and construction to keep the team on track.

NBS Special Publication

This is a new edition of the standard air conditioning installation/service text, emphasizing energy conservation. It contains new material on heating and computer programs, and new load calculation problems. The book provides thorough coverage of the fundamentals of air conditioning, explains relationships of theory to design of new systems, and discusses troubleshooting of existing systems. Air conditioning and refrigeration equipment and systems, and refrigeration absorption systems and heat pumps are all covered. Computer programs for load estimating are also described, and there are many illustrative examples of real-world situations. The text is consistent with all ASHRAE load estimating guidelines.

Managing Indoor Air Quality, Third Edition

Advanced Energy Design Guide for Small to Medium Office Buildings is the first in a series designed to provide

recommendations for achieving 50% energy savings over the minimum code requirements of ANSI/ASHRAE/IESNA Standard 90.1-2004. The energy savings target of 50% is the next step toward achieving a net zero energy building, which is defined as a building that, on an annual basis, draws from outside resources equal or less energy than it provides using on-site renewable energy sources. ANSI/ASHRAE/IESNA Standard 90.1-2004 provides the fixed reference point and serves as a consistent baseline and scale for all of the 50% Advanced Energy Design Guides. This Guide focuses on small to medium office buildings up to 100,000 ft². Office buildings include a wide range of office types and related activities such as administrative, professional, government, bank or other financial services, and medical offices without medical diagnostic equipment. These facilities typically

include all or some of the following space types: open plan and private offices, conference and meeting spaces, corridors and transition areas, lounge and recreation areas, lobbies, active storage areas, restrooms, mechanical and electrical rooms, stairways, and other spaces. This Guide does not cover specialty spaces such as data centers, which are more typical in large office buildings. The specific energy-saving recommendations in this Guide are summarized in a single table for each climate zone and will allow contractors, consulting engineers, architects, and designers to easily achieve advanced levels of energy savings without detailed energy modeling or analyses. In addition, this Guide provides a greater emphasis on integrated design as a necessary component in achieving 50% energy savings and devotes an entire chapter to integrated design strategies that can

be used by teams who do not wish to follow the specific energy saving recommendations.

Sheet Metal Workers Journal

Annotation The 2010 ASHRAE Handbook-Refrigeration covers the refrigeration equipment and systems for applications other than human comfort. This book includes information on cooling, freezing, and storing food; industrial applications of refrigeration; and low-temperature refrigeration. Primarily a reference for the practicing engineer, this volume is also useful for anyone involved in cooling and storage of food products. This edition contains two new chapters, Chapter 3, "Carbon Dioxide Refrigeration Systems" and Chapter 50, "Terminology of Refrigeration."

The Journal

Managing Indoor Air Quality, Fifth Edition