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

Good airflow control results when solid mechanical design is combined with excellent control strategy. Modern building requirements for the coordination of air ventilation, pressurization, temperature control, fire and smoke control, and energy reduction require integration at every level of design and operation. Dampers and Airflow Control is the first book of its kind. It bridges the gap between mechanical design and final damper control. This book covers not only theoretical aspects of application design but also practical aspects of existing applications, and the material applies to both new and retrofit projects. Among the topics discussed are new ASHRAE damper testing data, realistic but simplified pressure drop calculations, damper installations, and methods for economizers and minimum outdoor-air control. Tactics to linearize system airflow using damper response curves are also discussed, and new methods not found in existing literature are presented to characterize damper response to fit a process. Additional topics include torque, linkages, structural support, actuation, and

engineered damper assemblies. Dampers and Airflow Control is written for building systems designers and contractors and provides sound examples and best practices to achieve good airflow control.

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

"Provides three levels of standardized protocols for assessing building performance that identify what, how, and how often to measure in six performance categories: energy, water, thermal comfort, indoor air quality, lighting, and acoustics. Such protocols give feedback when performance does not match design intent and lend credibility to performance claims"--Provided by publisher.

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

"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

The design of computer rooms and telecommunications facilities is different in fundamental ways from the design of facilities used primarily for human occupancy. ASHRAE has not, until now, published a basic reference text to provide an overview of the special design needs of datacom facilities. As the power density of datacom equipment continues to increase, this need has grown more severe. This book covers basic design considerations for data and communications equipment centers. The book is divided into two parts. Part I, Datacom Facility Basics, includes chapters on datacom design criteria (temperature, temperature rate of change, relative humidity, dew point, and filtration), HVAC load, computer room cooling (including both air and liquid cooling), and air distribution. Part II of the book, Other Considerations, includes chapters on ancillary spaces (battery plants, emergency generator rooms, burn-in rooms and test labs, and spare parts rooms), contamination, acoustical noise emissions, structural and seismic design and testing, fire detection and suppression, commissioning, availability and redundancy, and energy efficiency. This book does not cover electrical or electronic systems design and distribution. The primary changes for this second edition center on the updated thermal envelope and relate to the recommended temperatures at the inlets of the equipment operating in datacom facilities. This book is the third in the ASHRAE Datacom Series, authored by ASHRAE Technical Committee 9.9, Mission Critical Facilities, Technology Spaces and Electronic Equipment. This series provides comprehensive treatment of datacom cooling and related subjects.

Smart Grid Application Guide

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 non-stop 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.

Dampers and Airflow Control

This is an out of print item which has been scanned and made available electronically. The research in this project was derived from RP-556. The purpose of the research was to develop a set of algorithms and related computer programs in the area of HVAC acoustics that are useful and reliable. All algorithms were to be based on currently verifiable published and unpublished test results. The objectives of this project were to: (1) develop algorithms in English, along with discussions related to the development

of the algorithms, references, and other appropriated data; (2) develop computer programs associated with each algorithm programmed in Basic; and (3) produce a final report in a form that could be readily published by ASHRAE. This book, published in 1991, was the final result of that research. However, it is now out of print as the sponsoring technical committee considered it to be out of date. ASHRAE has made this scanned copy available believing that it does contain sound algorithms to be used to predict acoustical performance of fans, ductwork, walls, ceilings, etc. Algorithms written in Basic with support documentation included. Added as a scanned document on October 15, 2000.

Performance Measurement Protocols for Commercial Buildings

This book should be of interest to policy makers, analysts and practitioners who are concerned about the effects of refrigeration systems on the environment. For practitioners and non-practitioners alike, the book should provide an understanding of the leak phenomena and the limits on detection and correction or prevention of leaks.

The ASHRAE Guide for Buildings in Hot and Humid Climates

Guide C: Reference Data contains the basic physical data and calculations which form the crucial part of building services engineer background reference material. Expanded and updated throughout, the book contains sections on the properties of humid air, water and steam, on heat transfer, the flow of fluids in pipes and ducts, and fuels and combustion, ending with a comprehensive section on units, mathematical and miscellaneous data. There are extensive and easy-to-follow tables and graphs. ·Essential reference tool for all professional building services engineers ·Easy to follow tables and graphs make the data accessible for all professionals ·Provides you with all the necessary data to make informed decisions

Design Considerations for Datacom Equipment Centers

"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"--

Data Center Handbook

The Handbook of Smoke Control Engineering extends the tradition of the comprehensive treatment of smoke control technology, including fundamental concepts, smoke control systems, and methods of analysis. The handbook provides information needed for the analysis of design fires, including considerations of sprinklers, shielded fires, and transient fuels. It is also extremely useful for practicing engineers, architects, code officials, researchers, and students. Following the success of Principles of Smoke Management in 2002, this new book incorporates the latest research and advances in smoke control practice. New topics in the handbook are: controls, fire and smoke control in transport tunnels, and full-scale fire testing. For those getting started with the computer models CONTAM and CFAST, there are simplified instructions with examples. This is the first smoke control book with climatic data so that users will have easy-to-use weather data specifically for smoke control design for locations in the U.S., Canada, and throughout the world. Systems discussed in the handbook include those for stairwell pressurization, elevator pressurization, zoned smoke control, and atrium smoke control. The latest smoke control research and most current engineering approaches are also included. Unique to previous smoke control literature, this handbook provides many example calculations to help designers prevent smoke damage.

Occupational Health & Safety Management Systems - Specification

Contributing to the Fundamentals of HVAC & R Series of textbooks for self-directed or groups learning courses, engineers Lewis and Brooks describe the processes for operating and maintaining a building's heating, ventilating, and air-conditioning systems and equipment, but also plumbing, electrical, life safety, and other systems. Among their topics are types of maintenance techniques and their application, contractor start-up and hand-over procedures, greening the facility, transitioning from reactive to proactive maintenance, maintenance technician training, and the benefits and cost of implementing computerized maintenance management systems. Skill development exercises are provided. Spiral bound.

Algorithms for HVAC Acoustics

This second edition of an Artech House classic title describes in detail the relationship between radiometry and photometry. It covers information needed to solve problems in radiation transfer and detection, detectors, measuring instruments, and concepts in colorimetry. This revised second edition presents an updated treatment of modern radiometry and photometry, including brand new sections on applications and developments in light sources and scientific instruments for measuring radiation and light. Engineers are also provided with an exciting new chapter on the use of computerized optical ray tracing for "virtual" experiments on optical systems.

Zero Leaks

Pre-Order now! Learn never-before published solutions to common drilling problems and discover how to continually improve efficiency during drilling. The "Drillers Knowledge Book" covers all aspects of drilling, including well design and construction, hydraulic optimization, rock mechanics, drilling fluid processing and much more. Between them, the two distinguished authors have more than a century of drilling experience. Publication anticipated by the end first quarter 2015. IADC.

Reference Data

This design guide provides designers and building owners with the basic information needed to design, install and operate successful cold-air distribution systems. It provides comprehensive coverage of cold-air distribution considerations, and can function as an entry point into the literature for those seeking more detailed information on specific aspects of cold-air distribution design. ASHRAE Research Project 849.

ASHRAE Laboratory Design Guide

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.

Handbook of Smoke Control Engineering

Understanding Psychrometrics serves as a lifetime reference manual and basic refresher course for those who use psychrometrics on a recurring basis and provides a four- to six-hour psychrometrics learning module to students; air-conditioning designers; agricultural, food process, and industrial process engineers; meteorologists and others.

1998 ASME Boiler and Pressure Vessel Code

"Provides guide for building owners, managers, and government entities on what to expect from an audit, building a team, levels of audit, writing audit report, analytical methods, approaches to site visits, on-site measurements, economic evaluation, best practices for auditors, analysis templates, and forms for field collection of data"--

Fundamentals of Building Operation, Maintenance and Management

"Simplifies the absorption and use of the PUE metric and allows executives to gain understanding of the concepts surrounding PUE, while providing application knowledge and resources to those implementing and reporting data center metrics"--

Introduction to Radiometry and Photometry, Second Edition

"Gives data center facility designers and manufacturers a clear understanding of their facilities' design needs and allows them to accurately predict the equipment loads their facilities will need to accommodate"--

The

Performance Measurement Protocols for Commercial Buildings: Best Practices Guide is the how-to guide for continuously evaluating and improving the performance of commercial buildings throughout their service life. It is also intended to support integrated commissioning and all activities of the building's O and M team. It is the book that facility managers, building operators, technicians, consultants, commissioning authorities, architects, and design engineers need to ensure that their buildings are green, energy efficient, highly productive, healthy, and attractive to others. This Guide gives building owners and their consultants the practical performance measurement guidance to meet market demands for keeping operating costs down without sacrificing the health, comfort, and productivity of their highest cost component - the building's occupants. This book provides specific best practices in the areas of energy use, water use, and four elements of indoor environmental quality (IEQ): thermal comfort, indoor air quality (IAQ), lighting/ daylighting, and acoustics. Using this guidance, owners can be proactive on an ongoing basis to reduce costs through measurement and verification of their buildings' environments. This book is a follow-on publication to ASHRAE's Performance Measurement Protocols for Commercial Buildings, which describes what to measure, how it is to be measured, and how often it is to be measured to quantitatively assess the performance of commercial buildings. This Guide provides the process and tools for performance evaluation and improvement and is user friendly, phased, and readily applicable, with step-by-step procedures provided at three levels of application: Basic Evaluation, which uses observations of building characteristics, perceptions of occupants, and data from utility bills to characterize performance Diagnostic Measurement, which uses physical measurements to diagnose problems indicated at the Basic Evaluation Level and to identify how performance can be improved. Advanced Analysis, which uses the results of the first two levels plus the results of professional investigative processes to identify specific actions for performance improvement.

Cold Air Distribution

A complete, fully revised HVAC design reference Thoroughly updated with the latest codes, technologies, and practices, this all-in-one resource provides details, calculations, and specifications for designing efficient and effective residential, commercial, and industrial HVAC systems. HVAC Systems Design Handbook, Fifth Edition, features new information on energy conservation and computer usage for design and control, as well as the most recent International Code Council (ICC) Mechanical Code requirements. Detailed illustrations, tables, and essential HVAC equations are also included. This comprehensive guide contains everything you need to design, operate, and maintain peak-performing HVAC systems. Coverage includes: Load calculations Air- and fluid-handling systems Central plants Automatic controls Equipment for cooling, heating, and air handling Electrical features of HVAC systems Design documentation--drawings and specifications Construction through operation Technical report writing Engineering fundamentals-fluid mechanics, thermodynamics, heat transfer, psychrometrics, sound and vibration Indoor air quality (IAQ) Sustainable HVAC systems Smoke management

IPC-1791A Trusted Electronic Designer, Manufacturer and Assembler Requirements

GAMP 5 provides pragmatic and practical industry guidance to achieve compliant computerized systems fit for intended use in an efficient and effective manner. This technical document describes a flexible risk-based approach to compliant GxP regulated computerized systems, based on scalable specification and verification. It points to the future of computer systems compliance by centering on principles behind major industry developments such as PQLI; ICH Q8, Q9, Q10; and ASTM E2500. This revolutionary Guide addresses the entire lifecycle of an automated system and its applicability to a wide range of information systems, lab equipment, integrated manufacturing systems, and IT infrastructures. It contains new information on outsourcing, electronic batch recording, end user applications (such as spreadsheets and small database applications), and patch management.

Algorithms and Subroutines for Secondary HVAC System Energy Calculations

HVAC Design Manual for Hospitals and Clinics