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Theory and Practice Amer Society of Heating

"In handbook form to be useful to practicing engineers and other professionals, this book addresses smoke control design, smoke management, controls, fire and smoke control in transport tunnels, and full scale fire testing. For those getting started with computer models CONTAM and CFAST, there are simplified instructions with examples"--

Refrigeration Routledge

This book provides engineers in the food refrigeration industry with a comprehensive design guide that addresses the various issues surrounding the design of refrigerated storage facilities. The design guide covers those areas where ASHRAE is uniquely qualified, and includes a thorough treatment of the current, established trends in refrigerated facility design. Chapter topics include storage facility specifications, structure design, and management. This guide is the result of ASHRAE Research Project 1214.

System Design Guide Amer Society of Heating

"Updates the second edition to provide readers a reference that agrees with the latest international standards. The third edition also includes a revised equation for the adiabatic saturation process, an summary of the 2009 RP-1485 ASHRAE research, as well as minor edits to the text"

Integrating Facilities With the Electric Grid Amer Society of Heating

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."

Refrigeration: Inch Pound Edition Amer Society of Heating

Highway engineers, as designers, strive to meet the needs of highway users while maintaining the integrity of the environment. Unique combinations of design controls and constraints that are often conflicting call for unique design solutions. A Policy on Geometric Design of Highways and Streets provides guidance based on established practices that are supplemented by recent research. This document is also intended as a comprehensive reference manual to assist in administrative, planning, and educational efforts pertaining to design formulation

ASHRAE Thermal Comfort Tool Ashrae

"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"--

HVAC Systems and Equipment: SI Edition American Society of Heating Refrigerating and Air-Conditioning Engineers

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.

Thermal Guidelines for Data Processing Environments Ashrae

"This self directed learning course provides an introduction to refrigeration and its thermodynamic aspects, components, refrigerants, and practical systems. The course includes skill development exercises and practical applications, including example problems and case studies"--Provided by publisher

Design Essentials for Refrigerated Storage Facilities Ashrae

"Discusses cleanroom classification; standards; airflow patterns; pressure differentials; control of airborne and surface particulate, airborne molecular, liquid-borne, and microbial contaminants; testing and certification, qualification, and commissioning; electrical, control, and lighting systems; and utility services and provides specifics for cleanrooms in semiconductor, pharmaceutical, biotechnology and health care, and food processing facilities"--

Inch-Pound Edition Amer Society of Heating

"A comprehensive manual that shows how to design, specify, and install seismic restraints for all mechanical and plumbing systems in buildings to meet the latest code requirements. Includes illustrated, detailed examples and calculations on design of restraints for suspended and floor-mounted equipment, ducts, piping, and cooling towers"--Provided by publisher.

ASHRAE Design Guide for Cleanrooms American Conference of Governmental Industrial Hygienists

"A guide that presents rules for controlling the noise and vibration of HVAC Systems"--Provided by publisher.

Psychrometrics Amer Society of Heating

"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"--

Version 2 Algorithms for HVAC Acoustics

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.

Particulate and Gaseous Contamination in Datacom Environments Ashrae

Algorithms for HVAC Acoustics Amer Society of Heating

Self-Directed Learning Course Amer Society of Heating

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.

Ashrae Handbook 2020 Amer Society of Heating

"Provides information that is essential to the prevention and control of particulate and gaseous contamination within datacom facilities and gives a common set of guidelines for contamination prevention and control that can enhance datacom equipment reliability"--

ASHRAE Handbook Fundamentals 2017 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.

Cold Air Distribution Amer Society of Heating

"Provides in-depth design recommendations and proven, cost effective, and reliable solutions for health care HVAC design that provide low maintenance cost and high reliability based on best practices from consulting and hospital engineers with decades of experience in the design, construction, and operation of health care facilities"--

CIBSE Guide C. Ashrae

"Provides information on liquid cooling for datacom equipment centers. Concerned with energy efficiency"--

Handbook of Smoke Control Engineering Amer Conf of Governmental

Specifiers, producers, testing labs, inspection consultants, teachers, designers, and quality technicians should all have a copy of this QC manual. These standards and the accompanying commentary will serve as a strong foundation for a plant's quality system for the manufacture of structural precast concrete products and for the manufacture of structural precast concrete products with architectural finishes