

Ashrae Lab Guide

ASHRAE Design Guide for Cleanrooms
ASHRAE Design Guide for Dedicated Outdoor Air Systems
Prudent Practices in the Laboratory
Guide for the Care and Use of Laboratory Animals
2013 ASHRAE Handbook
ASHRAE Laboratory Design Guide
Load Calculation Applications Manual (I-P Edition)
Dampers and Airflow Control
Biosafety in Microbiological and Biomedical Laboratories
The ASHRAE Guide for Buildings in Hot and Humid Climates
ASHRAE Design Guide for Low- to Mid-rise Multifamily Residential Buildings
A Practical Guide to Noise and Vibration Control for HVAC Systems
Laboratory Design Guide
Guidelines for Laboratory Design
Design Essentials for Refrigerated Storage Facilities
UFAD Guide
A Guide to Environmental Research on Animals
Transactions
Guidelines for Design and Construction of Hospitals and Outpatient Facilities
2014
Design Guide for Cool Thermal Storage
Guidelines for Laboratory Design
Ashrae Handbook 2016
Prudent Practices in the Laboratory
Guide for the Care and Use of Laboratory Animals
ASHRAE Laboratory Design Guide
Advanced Energy Design Guide for Small to Medium Office Buildings
Design Guide for Cool Thermal Storage
Damp Buildings, Human Health, and HVAC Design
ASHRAE Handbook
American National Standard for Laboratory Ventilation
Management of Animal Care and Use Programs in Research, Education, and Testing
Cold Air Distribution
HVAC Design Manual for Hospitals and Clinics
Guide for the Care and Use of Laboratory Animals
NFPA 45
Biological Safety
Laboratory

DesignNatural Ventilation for Infection Control in
Health-care SettingsDistrict Cooling GuideHandbook
of Air Conditioning and Refrigeration

ASHRAE Design Guide for Cleanrooms

"This book represents the most complete guidance on the design, installation, and operation and management of DOAS in nonresidential applications. With this book, any HVAC designer will be able to optimally incorporate a DOAS into their design. Architectural designers, building developers and owners, maintenance professionals, students, teachers, and researchers may also find the contents useful"--

ASHRAE Design Guide for Dedicated Outdoor Air Systems

A respected resource for decades, the Guide for the Care and Use of Laboratory Animals has been revised by a committee of experts, based on input from scientists and the public. The Guide incorporates recent research on commonly used species, including farm animals, and includes extensive references. It is organized around major components of animal use: Institutional policies and responsibilities. The committee discusses areas that require policy attention: the role and function of the Institutional Animal Care and Use Committee, protocols for animal care and use, occupational health and safety, personnel qualifications, and other areas. Animal

environment, husbandry, and management. The committee offers guidelines on how to design and run a management program, addressing environment, nutrition, sanitation, behavioral and social issues, genetics, nomenclature, and more. Veterinary care. The committee discusses animal procurement and transportation, disease and preventive medicine, and surgery. The Guide addresses pain recognition and relief and issues surrounding euthanasia. Physical plant. The committee identifies design and construction issues, providing guidelines for animal-room doors, drainage, noise control, surgery, and other areas. The Guide for the Care and Use of Laboratory Animals provides a framework for the judgments required in the management of animal facilities--a resource of proven value, now updated and expanded. This revision will be important to researchers, animal care technicians, facilities managers, administrators at research institutions, policymakers involved in research issues, and animal welfare advocates.

Prudent Practices in the Laboratory

Guide for the Care and Use of Laboratory Animals

"Provides recommendations for achieving a net zero energy small or medium office building; allows contractors, consulting engineers, architects, and designers to easily achieve advanced levels of energy savings without resorting to detailed calculations or

analyses"--

2013 ASHRAE Handbook

ASHRAE Laboratory Design Guide

"Provides a summary of what is understood within ASHRAE about dampness-related health risks in buildings along with suggestions for HVAC system designers that can help avoid such risks as well as a simple and easily recognizable description of dampness that is sufficient to increase the probability of negative health effects and practical quantitative tools and techniques that can alert managers to the risk of a building or an indoor space becoming damp to an extent that affects health in the future"--

Load Calculation Applications Manual (I-P Edition)

Dampers and Airflow Control

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.

Biosafety in Microbiological and Biomedical Laboratories

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.

The ASHRAE Guide for Buildings in Hot and Humid Climates

This title is published by the American Society for Microbiology Press and distributed by Taylor and Francis in rest of world territories.

ASHRAE Design Guide for Low- to Mid-rise Multifamily Residential Buildings

AAP Prose Award Finalist 2018/19 Management of Animal Care and Use Programs in Research, Education, and Testing, Second Edition is the extensively expanded revision of the popular Management of Laboratory Animal Care and Use Programs book published earlier this century. Following in the footsteps of the first edition, this revision serves as a first line management resource, providing for strong advocacy for advancing quality animal welfare and science worldwide, and continues as a valuable seminal reference for those engaged in all types of programs involving animal care and use. The new edition has more than doubled the number of chapters in the original volume to present a more comprehensive overview of the current breadth and depth of the field with applicability to an international audience. Readers are provided with the latest information and resource and reference material from authors who are noted experts in their field. The book: - Emphasizes the importance of developing a collaborative culture of care within an animal care and use program and provides information about how behavioral management through animal training can

play an integral role in a veterinary health program - Provides a new section on Environment and Housing, containing chapters that focus on management considerations of housing and enrichment delineated by species - Expands coverage of regulatory oversight and compliance, assessment, and assurance issues and processes, including a greater discussion of globalization and harmonizing cultural and regulatory issues - Includes more in-depth treatment throughout the book of critical topics in program management, physical plant, animal health, and husbandry.

Biomedical research using animals requires administrators and managers who are knowledgeable and highly skilled. They must adapt to the complexity of rapidly-changing technologies, balance research goals with a thorough understanding of regulatory requirements and guidelines, and know how to work with a multi-generational, multi-cultural workforce.

This book is the ideal resource for these professionals.

It also serves as an indispensable resource text for certification exams and credentialing boards for a

multitude of professional societies Co-publishers on

the second edition are: ACLAM (American College of

Laboratory Animal Medicine); ECLAM (European

College of Laboratory Animal Medicine); IACLAM

(International Colleges of Laboratory Animal

Medicine); JCLAM (Japanese College of Laboratory

Animal Medicine); KCLAM (Korean College of

Laboratory Animal Medicine); CALAS (Canadian

Association of Laboratory Animal Medicine); LAMA

(Laboratory Animal Management Association); and IAT

(Institute of Animal Technology).

A Practical Guide to Noise and Vibration Control for HVAC Systems

This volume updates and combines two National Academy Press bestsellers--Prudent Practices for Handling Hazardous Chemicals in Laboratories and Prudent Practices for Disposal of Chemicals from Laboratories--which have served for more than a decade as leading sources of chemical safety guidelines for the laboratory. Developed by experts from academia and industry, with specialties in such areas as chemical sciences, pollution prevention, and laboratory safety, Prudent Practices for Safety in Laboratories provides step-by-step planning procedures for handling, storage, and disposal of chemicals. The volume explores the current culture of laboratory safety and provides an updated guide to federal regulations. Organized around a recommended workflow protocol for experiments, the book offers prudent practices designed to promote safety and it includes practical information on assessing hazards, managing chemicals, disposing of wastes, and more. Prudent Practices for Safety in Laboratories is essential reading for people working with laboratory chemicals: research chemists, technicians, safety officers, chemistry educators, and students.

Laboratory Design Guide

This guideline defines ventilation and then natural ventilation. It explores the design requirements for natural ventilation in the context of infection control,

describing the basic principles of design, construction, operation and maintenance for an effective natural ventilation system to control infection in health-care settings.

Guidelines for Laboratory Design

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.

Design Essentials for Refrigerated Storage Facilities

"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"--

UFAD Guide

ASHRAE 104, *Biosafety in Microbiological & Biomedical Labs.*, quickly became the cornerstone of biosafety practice & policy upon first pub. in 1984. The info. is advisory in nature even though legislation & reg'n., in some circumstances, have overtaken it & made compliance with the guidance mandatory. This rev. contains these add'l. chap.: Occupat'l. med. & immunization; Decontam. & sterilization; Lab. biosecurity & risk assess.; Biosafety Level 3 (Ag.) labs.; Agent summary state. for some ag. pathogens; & Biological toxins. Also, chapters on the principles & practices of biosafety & on risk assess. were expanded; all agent summary state. & append. were rev.; & efforts were made to harmonize recommend. with reg'ns. promulgated by other fed. agencies.

A Guide to Environmental Research on Animals

"Focuses on Environmental considerations in addition to health and safety, emphasizing environmental issues in design as well as green lab design. Contains a new section on Sustainable Design. Includes new chapters on Material Sciences and Engineering and Nanotechnology Provides updated information in all sections, especially the chapters on Animal Research and HVAC "--

Transactions

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

Guidelines for Design and Construction of Hospitals and Outpatient Facilities 2014

Guidelines for Laboratory Design: Health and Safety Considerations, Third Edition provides reliable design information related to specific health and safety issues that need to be considered when building or renovating laboratories."

Design Guide for Cool Thermal Storage

Laboratory Design Guide 3rd edition is a complete guide to the complex process of laboratory design and construction. With practical advice and detailed examples, it is an indispensable reference for anyone involved in building or renovating laboratories. In this working manual Brian Griffin explains how to meet the unique combination of requirements that laboratory design entails. Considerations range from safety and site considerations to instrumentation and special furniture, and accommodate the latest laboratory practices and the constant evolution of science. Case studies from around the world illustrate universal principles of good design while showing a variety of approaches. Revised throughout for this new edition, the book contains a brand new chapter on the role of the computer, covering topics such as the virtual experiment, hot desking, virtual buildings and computer-generated space relationship diagrams. There are also 10 new international case studies, including the Kadoorie Biological Sciences Building at the University of Hong Kong.

Guidelines for Laboratory Design

This product of the Facility Guidelines Institute (FGI) provides minimum standards for design and construction of hospitals and outpatient facilities. The standards for long-term care facilities will appear in a new document for 2014; please see the entry for Guidelines for Design and Construction of Residential Health, Care, and Support Facilities. Included in the Guidelines for Hospitals and Outpatient Facilities is information on the planning, design, construction, and commissioning process and facility requirements for both hospitals and outpatient facilities. Included are general hospitals, psychiatric hospitals, and rehabilitation facilities as well as new chapters on children's and critical access hospitals. Outpatient facilities covered include primary care facilities; outpatient surgery facilities; birth centers; urgent care centers; mobile units; outpatient psychiatric and rehabilitation centers; facilities for endoscopy, dialysis, and cancer treatment; and a new chapter on dental facilities. In addition, the 2014 Guidelines includes new material on safety risk assessments and medication safety zones; increased requirements for commissioning infrastructure systems; and updated requirements for surgery, imaging, endoscopy, and dialysis facilities as well as primary care facilities and freestanding emergency facilities.

Ashrae Handbook 2016

The District Cooling Guide provides design guidance for all major aspects of district cooling systems,

including central chiller plants, chilled-water distribution systems, and consumer interconnection. It draws on the expertise of an extremely diverse international team with current involvement in the industry and hundreds of years of combined experience.

Prudent Practices in the Laboratory

"Provides foundational guidance for improving energy performance (of envelope, space-conditioning, ventilation, water-heating, lighting, and plug-load systems) and indoor environmental quality and promotes best practices for designing, operating, and owning dwelling units and common spaces in low- to mid-rise multifamily residential buildings, including high-performance and zero energy buildings"--

Guide for the Care and Use of Laboratory Animals

"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"--

ASHRAE Laboratory Design Guide

Advanced Energy Design Guide for Small

to Medium Office Buildings

Demonstrates how computers, logic controllers (PLCs) and programmable logic devices (PLDs) have in common the characteristics of being synchronous sequential systems, and differ with regard to modularity, design confidentiality and speed. The first section introduces logic controllers and makes the connection between digital electronics and PLCs. The second section is dedicated to PLDs and their use in designing PLCs. The final section considers PLCs and their applications, and PLC programming languages. Annotation copyrighted by Book News, Inc., Portland, OR

Design Guide for Cool Thermal Storage

"This manual focuses on the calculation of cooling and heating loads for commercial buildings. The heat balance method (HBM) and radiant time series method (RTSM) (as well as how to implement these methods) are discussed. Heat transfer processes and their analysis, psychrometrics, and heating load calculations are also considered"--

Damp Buildings, Human Health, and HVAC Design

Prudent Practices in the Laboratory--the book that has served for decades as the standard for chemical laboratory safety practice--now features updates and new topics. This revised edition has an expanded chapter on chemical management and delves into

new areas, such as nanotechnology, laboratory security, and emergency planning. Developed by experts from academia and industry, with specialties in such areas as chemical sciences, pollution prevention, and laboratory safety, *Prudent Practices in the Laboratory* provides guidance on planning procedures for the handling, storage, and disposal of chemicals. The book offers prudent practices designed to promote safety and includes practical information on assessing hazards, managing chemicals, disposing of wastes, and more. *Prudent Practices in the Laboratory* will continue to serve as the leading source of chemical safety guidelines for people working with laboratory chemicals: research chemists, technicians, safety officers, educators, and students.

ASHRAE Handbook

"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.

American National Standard for Laboratory Ventilation

"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"--

Management of Animal Care and Use Programs in Research, Education, and Testing

Cold Air Distribution

Annotation The 2016 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. ASHRAE Technical Committees in each subject area have reviewed all chapters and revised them as needed for current technology and practice. An accompanying CD-ROM contains all the volumes and chapters in both I-P and SI units.

HVAC Design Manual for Hospitals and Clinics

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.

Guide for the Care and Use of Laboratory Animals

"The second edition of this guide provides design guidance for cool thermal storage solutions. The guide compares different types of storage, particularly ice and chilled-water storage, and walks practitioners through every step in the design process from project initiation to commissioning and occupancy"--

NFPA 45

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.

Biological Safety

A comprehensive reference to help you evaluate cool storage for specific applications; select the appropriate cool storage technology for a given

application; and design successful cool storage systems. Introduces key engineering concepts and economics of cool storage with both chilled water and phase-change media, including cold air distribution. ASHRAE Research Project 592.

Laboratory Design

* A broad range of disciplines--energy conservation and air quality issues, construction and design, and the manufacture of temperature-sensitive products and materials--is covered in this comprehensive handbook * Provide essential, up-to-date HVAC data, codes, standards, and guidelines, all conveniently located in one volume * A definitive reference source on the design, selection and operation of A/C and refrigeration systems

Natural Ventilation for Infection Control in Health-care Settings

"Guide provides assistance in the design of UFAD systems that are energy efficient, intelligently operated, and effective in their performance. It also describes important research results that support current thinking on UFAD design"--

District Cooling Guide

Bioclimatic factors and their measurement. Physiologic functions and measurement techniques. Animal characteristics in relation to environmental response. Environment and physiopathology. Design

and execution of experiments using domestic animals. Development of research facilities. Research under field conditions.

Handbook of Air Conditioning and Refrigeration

The 2013 ASHRAE Handbook--Fundamentals covers basic principles and data used in the HVAC and R industry. Updated with research sponsored by ASHRAE and others, this volume includes 1,000 pages and 39 chapters covering general engineering information, basic materials, climate data, load and energy calculations, duct and pipe design, and sustainability, plus reference tables for abbreviations and symbols, I-P to SI conversions, and physical properties of materials.

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