

Online Library Ashrae
Laboratory Design Guide Book

Ashrae Laboratory
Design Guide Book

This guideline defines ventilation and then natural ventilation. It explores the design requirements for natural

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***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***

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settings.

"The Codes Guidebook for Interiors, Sixth Edition is the standards reference of choice for designers and architects, and the only guide devoted exclusively to codes applicable to

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interiors."--

The fastest way to straighten out the learning curve on specialized design projects "The series is welcome . . . By providing recent buildings as examples, supported with technical

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information and charts of design criteria, these books attempt to bridge the gap between theory and practice."-Oculus Building Type Basics books provide architects with the essentials they need to jump-start the

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design of a variety of specialized facilities. In each volume, leading national figures in the field address the key questions that shape the early phases of a project commission. The answers to these questions

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provide instant information in a convenient, easy-to-use format. The result is an excellent, hands-on reference that puts critical information at your fingertips. Building Type Basics for Research Laboratories provides

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the essential information needed to initiate designs for government, academic, and private research laboratories. Filled with project photographs, diagrams, floor plans, sections, and details, it combines in-depth

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coverage of the structural, mechanical, energy, cost, and safety issues that are unique to research laboratories with the nuts-and-bolts design guidelines that will start any project off on the right track and keep it there

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through completion.

"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

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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

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alert managers to the risk of a building or an indoor space becoming damp to an extent that affects health in the future"--

Compounding Sterile Preparations

Biosafety in Microbiological and

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***Biomedical Laboratories
ASHRAE Design Guide for
Dedicated Outdoor Air Systems
Industrial Ventilation Design
Guidebook
Modern Architecture and Climate
Industrial Ventilation Design***

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Guidebook: Volume 1

"In handbook form to be useful to practicing engineers and other professionals, this book addresses smoke control design, smoke management,

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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

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simplified instructions
with examples" - -

Comprehensive and up-to-date, this book guides the reader through the complex stages of laboratory design and construction

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with practical advice and examples.

This comprehensive volume, often called the “HVAC bible,” has been thoroughly updated to cover the latest code

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changes, equipment, and techniques HVAC Equations, Data, and Rules of Thumb, 3e offers all of the information an HVAC student or professional needs in one resource. The

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book thoroughly explains the expansion of piping systems and temperature limitations of new materials such as polyethylene, polypropylene, PVC, CPVC,

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and PEX. Detailed information is included for all types of facilities, including offices, hotels, hospitals, restaurants, commercial spaces, and

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computer rooms. This practical handbook reflects all the latest code changes—including the ASHRAE standards—and explains how to interpret and put them to use. It

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includes completely updated coverage of new pumps, chillers, air handling units, cooling equipment, boilers, and pipe material. You will get complete coverage of

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sustainability organizations that have become more important since last edition, including LEED, USGBC, Energy Star. Features hundreds of equations and

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rules for everything from ductwork to air-handling systems Includes a brand-new chapter on sound, vibration, and acoustics Contains an updated list of equipment manufacturers

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for all products featured
Empower your staff to
improve safety, quality
and compliance with the
help of new guidelines and
standards. We've updated
every chapter of this

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popular review of the fundamentals of preparing sterile products in hospital, home-care, and community pharmacy settings to reflect the most recent revisions to

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USP . Included are the latest guidelines for the compounding process, quality assurance methods, and comprehensive coverage of all aspects of the dispensing process.

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Comprehensive documentation for the guidelines is included in the appendices. Chapters new to this edition focus on: Gap analysis and action plans Safe use of

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automatic compounding
devices Cleaning and
disinfecting
Radiopharmaceuticals as
CSPs Allergen extracts as
CSPs.
HVAC Equations, Data, and

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Rules of Thumb, Third
Edition

Health and Safety
Considerations

ANSI/AIHA Z9.2-2006

Fundamentals Governing the
Design and Operation of

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Local Exhaust Ventilation
Systems

Sustainable Design of
Research Laboratories
ASHRAE Handbook

Safety is a word that has many
connotations, of risk of a possible

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accident that is acceptable
conjuring up different meanings to
different to one person. may not be
acceptable to an people. What is
safety? A scientist views safety
other. This may be one reason why
skydiving as a consideration in the

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design of an exper and mountain climbing are sports that are not iment. A manufacturing plant engineer looks as popular as are, say, boating or skiing. on safety as one of the necessary factors in But even activities that have high levels

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of developing a manufacturing process. A legis potential risk can be engaged in safely. How lator is likely to see safety as an important part can we minimize risks so that they decrease of an environmental law. A governmental ad to

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acceptable levels? We can do this by identifying the various safety issues and by assessing the risks of accidents inherent to these hazards. The administrator may consider identifying sources of hazards and by assessing the risks when reviewing the environmental consequences of a sequence of a

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proposed project. An attorney Most hazards that are faced in the laboratory may base a negligence suit on safety defects.

The first comprehensive guide to modern laboratory planning in ten years to address both construction

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and operating aspects. The 30 editors and authors are affiliated with the International Institute for Sustainable Laboratories (I2SL) and with the European Association for Sustainable Laboratory Technologies (EGNATON), which

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has also endorsed this ready reference. This expert team covers the entire lifecycle of a laboratory facility, starting with the site layout and the planning of the building, followed by the planning of such areas as housing for laboratory

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animals, clean rooms and production facilities. The next section of the book deals with the installation of laboratory equipment, including storage and emergency facilities, while the final parts address safety and sustainability

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standards applicable to laboratories, as well as facility management and optimization during normal laboratory operation. The relevant norms and standards are cited throughout, and examples from recent construction sites are

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also presented. Hundreds of photographs and drawings, many in full color, provide visual examples of the design and building concepts. As a result, readers will learn how to construct and maintain efficient and long-serving laboratory spaces

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with a minimum of maintenance costs and a maximum of safety. An invaluable, practical guide for planners, builders and managers of chemical, biological and medical research laboratories of any size.

"Discusses cleanroom

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classification; standards; airflow patterns; pressure differentials; control of airborne and surface particulate, airborne molecular, liquid-borne, and microbial contaminants; testing and certification, qualification, and

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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" --

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This new standard describes fundamental good practices related to the commissioning, design, selection, installation, operation, maintenance, and testing of local exhaust ventilation (LEV) systems used for the control of employee

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exposure to airborne contaminants.
Health, Safety, and Environmental
Considerations

The Sustainable Laboratory
Handbook

ASHRAE Laboratory Design Guide
Building Type Basics for Research

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Laboratories

Laboratory Design, Construction,
and Renovation

Literature Related to Planning,
Design, and Construction of Science
Facilities

"This book represents

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the most complete
guidance on the design,
installation, and
operation and management
of DOAS in
nonresidential
applications. With this

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book, any HVAC designer will be able to optimally incorporate a DOAS into their design. Architectural designers, building developers and owners, maintenance

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professionals, students,
teachers, and
researchers may also
find the contents
useful"--

Expanded and updated,
The CRC Handbook of

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Laboratory Design Guide Book

Laboratory Safety, Fifth Edition provides information on planning and building a facility, developing an organization infrastructure, planning

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for emergencies and contingencies, choosing the correct equipment, developing operational plans, and meeting regulatory requirements. Still the essential

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reference tool, the New Edition helps you organize your safety efforts to adhere to the latest regulations and use the newest technology. Thoroughly

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revised, the CRC
Handbook of Laboratory
Safety, Fifth Edition
includes new OSHA
laboratory safety
standards, the 1994 NRC
radiation safety

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**standards, guidelines
for X-ray use in
hospitals, enforcement
of standards for dealing
with blood-borne
pathogens, OSHA actions
covering hazardous waste**

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operations and emergency response, and the latest CDC guidelines for research with microbial hazards. Every word on every page has been scrutinized, and

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literally hundreds of changes have been made to bring the material up to date. See what's new in the New Edition New figures and tables illustrating the new

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material Internet
references in addition
to journal articles
Changes in the Clean Air
Act regarding
incineration of
hospital, medical, and

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infectious waste
Obsolete articles
removed and replaced -
over one hundred pages
of new material New
information on
respiratory protection

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guidelines

**ASHRAE Laboratory Design
GuidePlanning and
Operation of Laboratory
HVAC SystemsAshrae
Industrial Ventilation
Design Guidebook, Volume**

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**2: Engineering Design
and Applications brings
together researchers,
engineers (both design
and plants), and
scientists to develop a
fundamental scientific**

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understanding of
ventilation to help
engineers implement
state-of-the-art
ventilation and
contaminant control
technology. Now in two

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volumes, this reference contains extensive revisions and updates as well as a unique section on best practices for the following industrial sectors: **Automotive;**

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**Cement; Biomass
Gasifiers; Advanced
Manufacturing;
Industrial 4.0); Non-
ferrous Smelters; Lime
Kilns; Pulp and Paper;
Semiconductor Industry;**

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Steelmaking; Mining.
Brings together global
researchers and
engineers to solve
complex ventilation and
contaminant control
problems using state-of-

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the-art design equations
Includes an expanded
section on modeling and
its practical
applications based on
recent advances in
research Features a new

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chapter on best
practices for specific
industrial sectors
Volume 2: Engineering
Design and Applications
Natural Ventilation for
Infection Control in

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Laboratory Design Guide Book

Health-care Settings
Fundamentals, Systems,
and Performance

The Codes Guidebook for
Interiors

Science Facilities

Bibliography

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Fundamentals

*The fully revised and
restructured two-volume 2nd
edition of the Industrial
Ventilation Design
Guidebook develops a
systematic approach to the*

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engineering design of industrial ventilation systems and provides engineers guidance on how to implement this state-of-the-art ventilation technology on a global basis. Volume 1:

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Fundamentals features the latest research technology in the broad field of ventilation for contaminant control including extensive updates of the foundational chapters from the previous edition.

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With major contributions by experts from Asia, Europe and North America in the global industrial ventilation field, this new edition is a valuable reference for consulting engineers working

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in the design of air pollution and sustainability for their industrial clients (processing and manufacturing), as well as mechanical, process and plant engineers looking for design methodologies and

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*advice on sensors and
control algorithms for
specific industrial operations
so they can meet
challenging targets in the
low carbon economy.
Presents practical designs*

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*for different types of
industrial systems including
descriptions and new
designs for ducted systems
Discusses the basic
processes of air and
containment movements*

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such as jets, plumes, and boundary flows inside ventilated spaces Introduces the new concept of target levels in the systematic design methodology such as assessing target levels for

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*key parameters of industrial
air technology and the
hierarchy of different target
levels Provides future
directions and opportunities
in the industrial design field
New York : John Wiley and*

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Sons, [1987].

"Provides in-depth design recommendations and proven, cost effective, and reliable solutions for health care HVAC design that provide low maintenance

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*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"--*

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"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

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*results that support current
thinking on UFAD design"--*

*Design, Equipment, and
Operation*

*Handbook of Smoke Control
Engineering*

Design Before Air

Online Library Ashrae Laboratory Design Guide Book

Conditioning

UFAD Guide

ASHRAE Handbook

Fundamentals 2017

Inch-Pound Edition

*Prudent Practices in the Laboratory--the
book that has served for decades as the*

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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

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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

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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,

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and students.

"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

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design tools that illustrate features of laboratories and provide practical design aids"--

Nursing personnel play an integral role in healthcare and medical delivery organizations. Nurses not only work to keep patients safe, but must also contend with a number of safety and health risks.

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Illustrating the occupational risks nurses face, Healthcare Safety for Nursing Personnel: An Organizational Guide to Achieving Results addresses healthcare safety as related to nursing personnel risks, hazards, and responsibilities in hospitals and healthcare facilities. The book begins with an introduction to

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nursing safety that supplies a fundamental understanding of patient, nursing, and facility safety. Next, it delves into the range of safety issues that nurses must contend with. Topics covered include administrative area safety, bloodborne pathogens, workplace violence, infection control and

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prevention, emergency management, fire safety, and radiation hazards. Examining the concepts and principles of patient safety as related to organizational dynamics, culture, system methods, and key patient safety initiatives, the book supplies essential knowledge of healthcare safety risks, challenges, and

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controls. It includes information on leadership, management, communication skills, and understanding accidents. The book includes helpful resources in the appendices, such as a nurse safety perception survey, an accident causal factor chart, sample ergonomics symptoms report, sample TB exposure

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control plan, and a model respirator plan for small organizations. Complete with review exercises in each chapter, this book is ideal for certification training in nursing programs and as a reference for developing nursing in-service safety sessions.

The ASHRAE Laboratory Design Guide

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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

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comprehensive reference.

*HVAC Design Manual for Hospitals and
Clinics*

*ASHRAE Design Guide for Cleanrooms
Heating, ventilating, and air-
conditioning applications*

*Planning, Design, and Operation
Guide for the Care and Use of*

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Laboratory Animals

Participants, Process, and Product

This design guide provides designers and building owners with the basic information needed to design, install and operate

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**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**

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those seeking more detailed information on specific aspects of cold-air distribution design. ASHRAE Research Project 849. How climate influenced the design strategies of

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**modernist architects Modern
Architecture and Climate
explores how leading
architects of the twentieth
century incorporated
climate-mediating strategies
into their designs, and**

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shows how regional approaches to climate adaptability were essential to the development of modern architecture. Focusing on the period surrounding World War

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**II—before fossil-fuel
powered air-conditioning
became widely
available—Daniel Barber
brings to light a vibrant and
dynamic architectural
discussion involving design,**

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materials, and shading systems as means of interior climate control. He looks at projects by well-known architects such as Richard Neutra, Le Corbusier, Lúcio Costa, Mies van der Rohe,

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and Skidmore, Owings, and Merrill, and the work of climate-focused architects such as MMM Roberto, Olgyay and Olgyay, and Cliff May. Drawing on the editorial projects of James

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Marston Fitch, Elizabeth Gordon, and others, he demonstrates how images and diagrams produced by architects helped conceptualize climate knowledge, alongside the

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work of meteorologists, physicists, engineers, and social scientists. Barber describes how this novel type of environmental media catalyzed new ways of thinking about climate and

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**architectural design.
Extensively illustrated with
archival material, Modern
Architecture and Climate
provides global perspectives
on modern architecture and
its evolving relationship**

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**with a changing climate,
showcasing designs from
Latin America, Europe, the
United States, the Middle
East, and Africa. This timely
and important book
reconciles the cultural**

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**dynamism of architecture
with the material realities of
ever-increasing carbon
emissions from the
mechanical cooling systems
of buildings, and offers a
historical foundation for**

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**today's zero-carbon design.
"Focuses on Environmental
considerations in addition to
health and safety,
emphasizing environmental
issues in design as well as
green lab design. Contains a**

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new section on Sustainable Design. Includes new chapters on Material Sciences and Engineering and Nanotechnology Provides updated information in all sections,

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**especially the chapters on
Animal Research and HVAC**
"--

**Architecture, Sustainable
Design A comprehensive
book on the sustainable
design of research**

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**laboratories Today's
research laboratories are
complex and difficult
building types to design,
and making them
sustainable adds more
obstacles. Written by**

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**members of the well-known
firm KlingStubbins, under
the guidance of its Directors
of Laboratory Planning,
Engineering, and
Sustainability, Sustainable
Design of Research**

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Laboratories represents a multidisciplinary approach to addressing these challenges. With the needs of architects, engineers, construction professionals, and facility owners in mind,

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this book provides a road map for sustainable planning, design, construction, and operations. The book is valuable both to experienced laboratory

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designers seeking guidance on sustainable strategies, as well as professionals versed in sustainable design who want insight into laboratory applications. With content rich in guidance on

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**performance strategies,
even the most technically
oriented reader will find
valuable lessons inside. This
book: Focuses on the links
between best sustainable
practices and the specific**

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**needs of research
laboratories Provides a
number of case studies of
the best contemporary
sustainably designed labs,
with a focus on architecture
and engineering Explores**

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**the challenges in applying
rating systems, including
LEED, to laboratory
buildings Examines unique
considerations of
sustainable approaches in
leased and renovated**

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**laboratories Includes
contributions by experts on
approaches to integrated
design, site design,
programming, and
commissioning This
important book shows how**

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**theoretical ideas can be
applied to real-life
laboratory projects to create
healthier and more efficient
research environments.
Healthcare Safety for
Nursing Personnel**

Online Library Ashrae
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**Damp Buildings, Human
Health, and HVAC Design
The Foundations of
Laboratory Safety
An Organizational Guide to
Achieving Results
CRC Handbook of Laboratory**

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**Safety, 5th Edition
Eighth Edition**

Laboratory facilities are complex, technically sophisticated, and mechanically intensive structures that are

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expensive to build and to maintain. Hundreds of decisions must be made before and during new construction or renovation that will determine how

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***successfully the facility
will function when
completed and how
successfully it can be
maintained once put into
service. This book
provides guidance on***

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***effective approaches for
building laboratory
facilities in the chemical
and biochemical sciences.
It contains both basic and
laboratory-specific
information addressed to***

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***the user community-the
scientists and
administrators who
contract with design and
construction experts. The
book will also be
important to the design***

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***and construction
communities-the
architects, laboratory
designers, and engineers
who will design the
facility and the
construction personnel***

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***who will build it-to help
them communicate with
the scientific community
for whom they build
laboratory facilities.
Laboratory Design Guide
3rd edition is a complete***

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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

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***building or renovating
laboratories. In this
working manual Brian
Griffin explains how to
meet the unique
combination of
requirements that***

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laboratory design entails. Considerations range from safety and site considerations to instrumentation and special furniture, and accommodate the latest

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***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***

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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,

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hot desking, virtual buildings and computer-generated space relationship diagrams. There are also 10 new international case studies, including the

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***Kadoorie Biological
Sciences Building at the
University of Hong Kong.
A respected resource for
decades, the Guide for
the Care and Use of
Laboratory Animals has***

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***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***

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incorporates new scientific information on common laboratory animals, including aquatic species, and includes extensive references. It is organized

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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.

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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

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***Official, Attending
Veterinarian and the
Institutional Animal Care
and Use Committee.
Animal environment,
husbandry, and
management. A chapter***

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***on this topic is now
divided into sections on
terrestrial and aquatic
animals and provides
recommendations for
housing and environment,
husbandry, behavioral***

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***and population
management, and more.
Veterinary care. The
Guide discusses
veterinary care and the
responsibilities of the
Attending Veterinarian. It***

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***includes
recommendations on
animal procurement and
transportation, preventive
medicine (including
animal biosecurity), and
clinical care and***

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management. The Guide addresses distress and pain recognition and relief, and issues surrounding euthanasia. Physical plant. The Guide identifies design issues,

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***providing construction
guidelines for functional
areas; considerations
such as drainage,
vibration and noise
control, and
environmental***

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***monitoring; and
specialized facilities for
animal housing and
research needs. The
Guide for the Care and
Use of Laboratory
Animals provides a***

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***framework for the
judgments required in the
management of animal
facilities. This updated
and expanded resource of
proven value will be
important to scientists***

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***and researchers,
veterinarians, animal care
personnel, facilities
managers, institutional
administrators, policy
makers involved in
research issues, and***

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***animal welfare advocates.
Design, Construction, and
Operation of Underfloor
Air Distribution Systems
Prudent Practices in the
Laboratory
A Guide for the***

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***Biomedical Laboratory
Design Guide for
Reducing Transportation
Noise in and Around
Buildings
NBS Building Science
Series***

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***Handling and
Management of Chemical
Hazards, Updated Version***