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ASHRAE Research Project 969. It was sponsored by TC 9.10, About the Authors Jan B.D. McIntosh, Ph.D. is a recent Ph.D. graduate in mechanical engineering from the University of Wisconsin—Madison and is a member of ASHRAE and ...

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Read/Download File Report Abuse. Metrics for Energy Efficiency. Apr 2, 2008 ... ashrae.org. April 2008. Paul Mathew, Ph.D., is staff scientist at Lawrence ...

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ASHRAE Laboratory Design Guide (ASHRAE 2015). Specifically, this document addresses considerations likely to be encountered

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during design, renovation, or ongoing management of laboratories, ECDs, and LACs. By limiting the scope of this document to laboratory scale use of airborne hazards, other guidance for laboratory facility designers may be necessary to accommodate other hazards (i.e ...

~~Classification of Laboratory Design Levels—ASHRAE~~

Regulations, guidelines and standards to ensure laboratory safety have been published by many industry groups, many of which can be found in Appendix A. Complying with those requirements is a primary step in achieving laboratory safety objectives. Comfort Laboratory safety has to be balanced with worker comfort. Comfort primarily is concerned with maintaining appropriate temperatures and air ...

~~Laboratory Design Handbook~~

ASHRAE Standard 34-2013 establishes a simple means of referring to common refrigerants instead of using the chemical name, formula or trade name. It also established a uniform system for assigning reference numbers and safety classifications to refrigerants. ASHRAE refrigerant designations (current as of June 2016)

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work informs campus decisions and the built environment industry. 2021 ASHRAE Winter Conference Now Virtual: 2021 AHR Expo Cancelled. The 2021 AHR Expo originally scheduled to be held January 25-27, 2021 at McCormick Place in Chicago has been cancelled. The 2021 ...

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- Guidelines for Laboratory Design – Health and Safety Considerations 4th Edition
- ASHRAE Handbook – Applications Chapter 16. Animal Laboratory Spaces Animal Facility Diagrammatic Model Showing Basic Flows and Spatial Relationships (WBDG Animal Research Facility 2010) Animal Laboratory Spaces Preliminary Floor Plan (Canadian Council on Animal Care – Guidelines on: Laboratory Animal ...

~~Animal Facilities – Illinois ASHRAE~~

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Some of the common codes and standards specific to labs are ANSI/AIHA/ASSE Z9.5, IECC or ASHRAE 90.1, ASHRAE

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Laboratory Design Guide, NIH Design Policy and Guidelines, NFPA 30, NFPA 45, NFPA 90A: Standard for the Installation of Air-Conditioning and Ventilating Systems, and NFPA 101: Life Safety Code, to name a few. Handziuk: Codes and standards that are currently of most interest are IECC ...

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"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"--

Comprehensive and up-to-date, this book guides the reader through the complex stages of laboratory design and construction with practical advice and examples.

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can be used as a comprehensive reference.

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."

"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 "--

Laboratory facilities are complex, technically sophisticated, and mechanically intensive structures that are expensive to build and to maintain. Hundreds of decisions must be made before and during new construction or renovation that will determine how successfully the facility will function when completed and how successfully it can be maintained once put into service. This book provides guidance on effective approaches for building laboratory facilities in the chemical and biochemical sciences. It contains both basic and laboratory-specific information addressed to the user community-the scientists and administrators who contract with design and construction experts. The book will also be important to the design and construction communities-the architects, laboratory designers, and engineers who will design the facility and the construction personnel who will build it-to help them communicate with the scientific community for whom they build laboratory facilities.

"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.

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Architectural designers, building developers and owners, maintenance professionals, students, teachers, and researchers may also find the contents useful"--

"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"--

"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"--

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