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29.8 2001 ASHRAE Fundamentals Handbook (SI) fan-cooled (TEFC) motors are slightly more efficient. For speeds lower or higher than those listed, efficiencies may be 1 to 3% lower or higher, depending on the manufacturer.

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29.8 2001 ASHRAE Fundamentals Handbook (SI)

2 Addendum n to ANSI/ASHRAE STANDARD 62-2001 Addendum 62n In Section 3, “ Definitions, ” change the name of the term “ occupied zone ” and update the reference as follows: occupied zonebreathing zone: the region within an occupied space between planes 3 and 72 in. (75 and 1800 mm) above

Ventilation for Acceptable Indoor Air Quality - ASHRAE

In the chemical laboratory setting, general dilution ventilation of laboratories, beyond that recommended by the ASHRAE 62-2001, is a core engineering control of occupant chemical exposures during normal operations.

LABORATORY VENTILATION PART 1 GENERAL

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

Classification of Laboratory Design Levels - ASHRAE

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Laboratory Design Fundamentals. Presented by Don MacDonald. Northern Regional Manager. ASHRAE Madison Chapter. March 14, 2016. Lab Vent Controls Presentation Overview ... Fan static reset (ASHRAE 90.1) ...

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"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 "--

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

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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.

Solar Energy is an authoritative reference on the design of solar energy systems in building projects, with applications, operating principles, and simple tools for the construction, engineering, and design professional. The book simplifies the solar design and engineering process, providing sample documentation and special tools that provide all the information needed for the complete design of a solar energy system for buildings to enable mainstream MEP and design firms, and not just solar energy specialists, to meet the growing demand for solar energy systems in building projects.

Science-learning spaces are different from general-purpose classrooms. So if your school is planning to build or renovate, you need the fully updated NSTA Guide to Planning School Science Facilities. It's the definitive resource for every K - 12 school that seeks safe, effective science space without costly, time-consuming mistakes. New to this edition is a chapter on "green" schools, including how to think outside the traditional wall and use the entire grounds to encourage environmental responsibility in students. The revised guide also provides essential up-to-date coverage such as: practical information on laboratory and general room design, budget priorities, space considerations, and furnishings; stages of

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the planning process for new and renovated science facilities; current trends and future directions in science education and safety, accessibility, and legal guidelines; and detailed appendices about equipment-needs planning, classroom dimensions, and new safety research, plus an updated science facilities audit. NSTA Guide to Planning School Science Facilities will help science teachers, district coordinators, school administrators, boards of education, and schoolhouse architects understand those differences and develop science facilities that will serve students for years to come.

Originating from the 2019 International Conference on Building Information Modelling this book presents latest findings in the field. This volume presents research from a panel of experts from industry, practice and academia touching on key topics, the development of innovative solutions, and the identification future trends.

This book focuses on some of the most energy-consuming HVAC systems; illuminating huge opportunities for energy savings in buildings that operate with these systems. The main discussion is on, cutting-edge decision making approaches, and algorithms in: decision making under uncertainty, genetic algorithms, fuzzy logic, artificial neural networks, agent based modeling, and game theory. These methods are applied to HVAC systems, in order to help designers select the best options among the many available pathways for designing and the building of HVAC systems and applications. The discussion further evolves to depict how the buildings of the future can incorporate these advanced decision-making algorithms to become autonomous and truly ‘ smart ’ .

Nursing personnel play an integral role in healthcare and medical delivery organizations. Nurses not

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only work to keep patients safe, but must also contend with a number of safety and health risks. 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 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 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 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 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 Latest Information and “ Tricks of the Trade ” for Achieving First-Rate HVAC Designs on Any Construction Job! *HVAC Equations, Data, and Rules of Thumb* presents a wealth of state-of-the-art HVAC design information and guidance, ranging from air distribution to piping systems to plant

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equipment. This popular reference has now been fully updated to reflect the construction industry's new single body of codes and standards. Featuring an outline format for ease of use, the Second Edition of this all-in-one sourcebook contains: Updated HVAC codes and standards, including the 2006 International Building Code Over 200 equations for everything from ductwork to air-handling systems ASME and ASHRAE code specifications Over 350 rules of thumb for cooling, heating, ventilation, and more New material including: coverage of the new single body of construction codes now used throughout the country Inside This Updated HVAC Design Guide • Definitions • Equations • Rules of Thumb for Cooling, Heating, Infiltration, Ventilation, Humidification, People/Occupancy, Lighting, and Appliance/Equipment • Cooling Load Factors • Heating Load Factors • Design Conditions and Energy Conservation • HVAC System Selection Criteria • Air Distribution Systems

- Piping Systems (General, Hydronic, Glycol, Steam, Steam Condensate, AC Condensate, Refrigerant)
- Central Plant Equipment (Air-Handling Units, Chillers, Boilers, Cooling Towers, Heat Exchangers)
- Auxiliary Equipment (Fans, Pumps, Motors, Controllers, Variable-Frequency Drives, Filters, Insulation, Fire Stopping) • Automatic Controls/Building Automation Systems • Equipment Schedules • Equipment Manufacturers • Building Construction Business Fundamentals • Architectural, Structural, and Electrical Information • Conversion Factors • Properties of Air and Water • Designer's Checklist • Professional Societies and Trade Organizations • References and Design Manuals • Cleanroom Criteria and Standards

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