



# **Humidity Control Design Guide**

for Commercial and Institutional Buildings

Lew Harriman

Geoff Brundrett

Reinhold Kittler

# Ashrae Humidity Control Design Guide

**Jinyue Yan**

## **Ashrae Humidity Control Design Guide:**

Humidity Control Design Guide for Commercial and Institutional Buildings Lewis G. Harriman,Geoffrey Wilmot Brundrett,Reinhold Kittler,2001 This 4 color hardback book is an easy to read user friendly manual aimed at HVAC designers concerned with humidity control It helps to define the purpose of a humidity control project and provides information on the effects of humidity on mold mildew bacteria viruses and overall human health and comfort The text also discusses how humidity control equipment works and the importance of managing air pressure in a building Schools office buildings nursing homes and laboratories are discussed in depth along with other types of buildings The book provides checklists to help architects owners contractors and building and HVAC system designers get the job done quickly and accurately ASHRAE Research Project 1047

### **Humidity Control Design Guide for Commercial and Institutional Buildings** Lew

Harriman,Geoffrey Brundrett,Reinholld Kittler,2012-04-09 This publication is a Chinese language abridged translastion of Humidity Control Design Guide for Commercial and Institutional Buildings product code 90421 This book is designed to help technical professionals design humidity control systems for commercial buildings The Guide provides the HVAC designer with complete coverage of humidity control from basic principles to real world design advice and is organized in a logical easy to follow layout This book has been translated and distributed by Munters with permission from ASHRAE No part of this book may be reproduced without permission in writing from ASHRAE or from the original holder of the copyright as indicated in the text except by a reviewer who may quote brief passages or reproduce illustrations in a review with appropriate credit nor may any part of this book be stored in a retrieval system or transmitted in any form by any means electronic photocopying recording or other without permission in writing from ASHRAE or from the original copyright holder

,2006 This book provides a thorough introduction to how Heating Ventilating and Air Conditioning HVAC systems control temperature air quality and air circulation in a conditioned space *Handbook of Clean Energy Systems, 6 Volume Set*

Jinyue Yan,2015-06-22 The Handbook of Clean Energy Systems brings together an international team of experts to present a comprehensive overview of the latest research developments and practical applications throughout all areas of clean energy systems Consolidating information which is currently scattered across a wide variety of literature sources the handbook covers a broad range of topics in this interdisciplinary research field including both fossil and renewable energy systems The development of intelligent energy systems for efficient energy processes and mitigation technologies for the reduction of environmental pollutants is explored in depth and environmental social and economic impacts are also addressed Topics covered include Volume 1 Renewable Energy Biomass resources and biofuel production Bioenergy Utilization Solar Energy Wind Energy Geothermal Energy Tidal Energy Volume 2 Clean Energy Conversion Technologies Steam Vapor Power Generation Gas Turbines Power Generation Reciprocating Engines Fuel Cells Cogeneration and Polygeneration Volume 3 Mitigation Technologies Carbon Capture Negative Emissions System Carbon Transportation Carbon Storage Emission

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### **Fundamentals of HVAC Control Systems** Steven T.

Taylor, Ross Montgomery, Robert McDowall, Heating Ventilation and Air Conditioning HVAC control systems are omnipresent in modern buildings This book is an introduction to all those involved in the specification design manufacture installation operation or maintainance of these systems The book explains Control theory and how to evaluate select position and sequence the appropriate type of control The electrical knowledge needed to understand controls and the use of electrical circuit drawings The various types of valves and dampers and their selection installation and operation Terminology and attributes of sensors the selection of moisture sensors pressure flow and auxiliary devices Self powered and system powered controls Electric controls control diagrams and control logic The components of pneumatic systems and control applications diagrams Wiring conventions application specific electronic controllers and how to use them in HVAC applications The use of written specifications schedules and drawings to clearly identify what is to be installed how it is to be installed and how it is expected to operate Direct Digital Controls DDC components their inputs and outputs and the programming of DDC routines DDC Networks and Protocols DDC Specification Installation and Commissioning After completing this course you will understand Control theory and how to evaluate select position and sequence the appropriate type of control The electrical knowledge needed to understand controls and the use of electrical circuit drawings The various

types of valves and dampers and their selection installation and operation Terminology and attributes of sensors the selection of moisture sensors pressure flow and auxiliary devices Self powered and system powered controls Electric controls control diagrams and control logic The components of pneumatic systems and control applications diagrams Wiring conventions application specific electronic controllers and how to use them in HVAC applications The use of written specifications schedules and drawings to clearly identify what is to be installed how it is to be installed and how it is expected to operate Direct Digital Controls DDC components their inputs and outputs and the programming of DDC routines DDC Networks and Protocols DDC Specification Installation and Commissioning     Fundamentals of HVAC Systems Robert McDowell,2006-12-13 Heating Ventilation and Air Conditioning HVAC systems are omnipresent in modern buildings This book is an introduction for all those involved in the specification design manufacture installation operation or maintainance of these systems Developed jointly with the ASHRAE Learning Institute the leading and recognised technical experts in the industry This Inch Pound edition is primarily for use in US markets An SI version is also available on ISBN 0123739985 The book explains The objectives to be achieved by a system in terms of environmental control The description of a system including primary equipment means of distribution space and load determination and operating strategy The basic function of components that form HVAC systems The layout and functioning of common HVAC systems including all air systems air water systems and all water systems The strategies for operating systems and their basic means of control Identifying the most suitable type of system for different types of application Air conditioning is a major industry and growing Shows how systems operate and how to select design and operate them efficiently to minimise installation cost and ongoing energy cost Endorsed by and developed with ASHRAE the leading trade body and recognised technical experts Provides a thorough introduction to how HVAC systems function in controlling temperature air quality and air circulation in a controlled space

**Data Center Handbook** Hwaiyu Geng,2014-12-22 Provides the fundamentals technologies and best practices in designing constructing and managing mission critical energy efficient data centers Organizations in need of high speed connectivity and nonstop systems operations depend upon data centers for a range of deployment solutions A data center is a facility used to house computer systems and associated components such as telecommunications and storage systems It generally includes multiple power sources redundant data communications connections environmental controls e g air conditioning fire suppression and security devices With contributions from an international list of experts The Data Center Handbook instructs readers to Prepare strategic plan that includes location plan site selection roadmap and capacity planning Design and build green data centers with mission critical and energy efficient infrastructure Apply best practices to reduce energy consumption and carbon emissions Apply IT technologies such as cloud and virtualization Manage data centers in order to sustain operations with minimum costs Prepare and practice disaster recovery and business continuity plan The book imparts essential knowledge needed to implement data center design and construction apply IT technologies and

continually improve data center operations      **Fundamentals of HVAC Systems (SI)** Robert McDowall,2006-12-18  
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Provided by publisher      *The Future of Thermal Comfort in an Energy- Constrained World* Tim Law,2013-04-19 The dissertation investigates the scientific and business factors that have resulted in air conditioning being a major contributor to climate change With his architectural background the author demonstrates how a design methodology not commonly adopted in scientific studies may actually be a suitable way of dealing with a complex problem the business as usual scenario involving building science sociological values and consumer behavior Using his innovations as case studies the author shows how good ideas cannot be evaluated on scientific merit alone and demonstrates why commercialization may have a pivotal role in deployment of research based technology He advances the theory of personalized thermal comfort which can potentially resolve the air conditioning conundrum      *Final Report for Energy-efficient, Mold-resistant Materials and Construction Practices for New California Homes* ,2008      *Bulletin de L'Institut International Du Froid* ,2009

*Model-based Control of Laboratory HVAC Systems* Osman Ahmed,1996      **Guidelines for Laboratory Design** Louis J. DiBerardinis,2001-09-24 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      *The ASHRAE Guide for Buildings in Hot and Humid Climates* Lewis G. Harriman,2008-01-01 This first edition provides decision makers with a basic explanation of the most common and far reaching issues for buildings in hot and humid climates In each of these first chapters we provide specific suggestions for what each professional can do to improve buildings with respect to these key issues      *Advanced Integrated Systems Technology Development* Fred Bauman,University of California, Berkeley. Center for the Built Environment,2013      *Chemical Engineers' Handbook* Robert

H. Perry,Cecil Hamilton Chilton,1973 Provides comprehensive coverage through articles graphs tables and formula of standard subjects and recent innovations relating to chemical engineering Bibliogs     **A Review of ASHRAE Standard 160?Criteria for Moisture Control Design Analysis in Buildings** Anton TenWolde,2011 Many of our current recommendations for moisture and condensation control are not based on quantitative analysis under a consistent set of design assumptions even though a growing number of computer tools are beginning to make such analysis practical To address this issue the American Society of Heating Refrigerating and Air Conditioning Engineers ASHRAE published ASHRAE Standard 160 Criteria for Moisture Control Design Analysis in Buildings in January 2009 The standard provides performance based procedures and criteria for moisture design analysis for buildings It sets criteria for moisture design loads moisture analysis methods and satisfactory building performance The standard can be used for the design analysis of the building envelope or to help guide specifications for HVAC equipment and controls Eventually it should form the basis for prescriptive moisture design rules based on a uniform set of design assumptions and loads It is intended to help reduce building failures in service provide consistency in design approach and recommendations offer more flexibility in design for moisture control and better ability to incorporate new materials and provide greater transparency by requiring reporting of design assumptions This paper describes the rationale behind this standard what is in it its potential uses and areas of uncertainties A standing ASHRAE Standard Project Committee has now been formed to update the standard The paper discusses some of the main changes that are likely to occur in the next update     **Mold Reporter** ,2000     [The Ashrae Guide for Buildings in Hot and Humid Climates](#) ,2014-05-14 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

## Whispering the Secrets of Language: An Psychological Journey through **Ashrae Humidity Control Design Guide**

In a digitally-driven earth where monitors reign great and immediate connection drowns out the subtleties of language, the profound techniques and emotional nuances hidden within words often move unheard. However, nestled within the pages of **Ashrae Humidity Control Design Guide** a charming fictional prize sporting with raw thoughts, lies an exceptional journey waiting to be undertaken. Penned by an experienced wordsmith, that enchanting opus attracts readers on an introspective journey, gently unraveling the veiled truths and profound influence resonating within the fabric of each word. Within the psychological depths of the moving evaluation, we can embark upon a heartfelt exploration of the book is core styles, dissect its interesting writing style, and fail to the strong resonance it evokes deep within the recesses of readers hearts.

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web 7 3 2 thin walled cylinders the analysis of a thin walled internally pressurised cylindrical vessel is similar to that of the

spherical vessel the main difference is that the cylinder has three different principal stress values the circumferential stress the radial stress and the longitudinal stress

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web thin wall cylinder objective to study the stress and strain developed in a thin wall cylinder under internal pressure to determine the poisson's ratio  $\nu$  and the young's modulus of elasticity  $E$  for the cylinder material apparatus fig 1 shows a thin walled cylinder of aluminum containing a freely supported piston

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we consider now a simple spherical vessel of radius  $r$  and wall thickness  $b$  such as a round theaccuracy of this result depends on the vessel being thin walled i.e.  $r \gg b$  at the inner cylinder now expands according to the difference  $p - p_c$  while

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web thin walled vessels are typically either spherical or cylindrical other geometries are possible but their complexity precludes their inclusion in this webpage spherical cylinder stress and deflection filled to depth  $d$  with liquid of density  $d$  force unit volume tangential edge support equation and calculator

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web in chapter 2 we examined the stresses in thin walled cylinders subjected to internal pressure the assumption of thin walls allowed us to develop a simple analysis that ignored the variation of radial stress when the wall thickness becomes appreciable in proportion

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web oct 12 2011 if the cylinder walls are thin and the ratio of the thickness to the internal diameter is less than about then it can be assumed that the hoop and longitudinal stresses are constant across the thickness it may also be assumed that the radial stress is small and can be neglected

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web a fluid container sealed by a piston is open i.e. in this case an external axial force  $F$  is mandatory for equilibrium of the overall piston and cylinder assembly a bicycle pump is a common example if  $A_i$  is the internal circular area then a free body of either piston or cylinder end must have  $F = p_i A_i$  and there is no need for axial wall stresses to

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web the classic equation for hoop stress created by an internal pressure on a thin wall cylindrical pressure vessel is  $\sigma = \frac{p d}{2 t}$  for the hoop stress thin wall pressure vessel hoop stress calculator where  $p$  is the internal pressure  $t$  is the wall thickness  $r$  is the inside radius of the cylinder

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