

STANDARD 55 USER'S MANUAL

Based on

ANSI/ASHRAE Standard 55-2013

Thermal Environmental Conditions for Human Occupancy



This manual provides

- Explanation of Standard 55's requirements
- Guidance on designing for thermal comfort
- Sample calculations and examples using the ASHRAE Thermal Comfort Tool
- Descriptions of compliance tools
- Useful references
- Operation and maintenance tips



Ashrae Manual 2013

**David Kroll, Veronica Soebarto, Arianna
Brambilla, Ehsan Sharifi**

Ashrae Manual 2013:

2013 ASHRAE Handbook ,2013 Standard 55 User's Manual ASHRAE (Firm), The purpose of this User's Manual is to aid in understanding and complying with the requirements of ASHRAE Standard 55 2013 as published in its entirety **90.**

1-2013 User's Manual American Society of Heating, Refrigerating and Air-Conditioning Engineers,Ashrae,2014-06-17

Detailed instruction for the design of commercial and high rise residential buildings to ensure compliance with ANSI

ASHRAE IES Standard 90 1 2013 and provides forms to demonstrate compliance **Standard 55-2013 User's Manual**

Ashrae,2016 This companion guide provides detailed information on the requirements of Standard 55 2013 and includes tables illustrations and examples to aid users in the design commissioning and measuring and rating of thermal comfort in buildings Standard 55 User's Manual does not reproduce the requirements of the standard but rather paraphrases and explains them Intended to be used in conjunction with the standard this manual provides Information on the intent and application of Standard 55 Sample calculations and examples using the ASHRAE Thermal Comfort Tool Guidance on applying the principles of acceptable thermal comfort and effective thermal control Useful reference material to assist designers owners and users in efficiently completing a successful and compliant design Guidance to building operation and maintenance personnel Descriptions of compliance toolsAlso included is an exclusive link to the web based CBE ASHRAE Thermal Comfort Tool developed by the Center for the Built Environment at the University of California Berkeley This manual is intended for architects engineers manufacturers plan examiners field inspectors generaland specialty contractors commissioning agents raters and similar quality control specialists and operationand maintenance personnel **ASHRAE Handbook** American Society of Heating, Refrigerating and Air-Conditioning Engineers,2015 **Deep Energy Retrofit**

Alexander Zhivov,Rüdiger Lohse,2020-07-13 This book provides detailed information on how to set up Deep Energy Retrofits DERs in public buildings and shares in depth insights into the current status of the major technologies strategies and best practice examples of how to cost effectively combine them Case studies from the U S A and Europe show that that Deep Energy Retrofit can be achieved with a limited core technologies bundle readily available on the market Characteristics of some of these core technology measures depend on the technologies available on an individual nation's market on the minimum requirements of national standards and on economics as determined by a life cycle cost analysis Also requirements to building envelope related technologies e g insulation levels windows vapor and water barriers and requirements for building airtightness depend on specific climate conditions This Guide provides best practice examples of how to apply these technologies in different construction situations High levels of energy use reduction using core technology bundles along with improvements in indoor climate and thermal comfort can be only achieved when a Deep Energy Retrofit adopts a quality assurance process In addition to design construction commissioning and post occupancy phases of the quality assurance process the Guide emphasizes the importance of clearly and concisely formulating and documenting the Owner's goals

expectations and requirements for the renovated building during development of the statement of work Another important component of the quality assurance process is a procurement phase during which bidders qualifications their understanding of the scope of work and its requirements and their previous experience are analyzed The building sector holds the potential for tremendous improvements in terms of energy efficiency and reducing carbon emissions and energy retrofits to the existing building stock represent a significant opportunity in the transition to a low carbon future Moreover investing in highly efficient building materials and systems can replace long term energy imports contribute to cost cutting and create a wealth of new jobs Yet while the technologies needed in order to improve energy efficiency are readily available significant progress has not yet been made and best practices for implementing building technologies and renewable energy sources are still relegated to small niche applications Offering essential information on Deep Energy Retrofits the book offers a valuable asset for architects public authorities project developers and engineers alike

2013 California Mechanical Code

International Association of Plumbing and Mechanical Officials,2012 This document is the 4th of 12 Parts of the official triennial compilation and publication of the adoptions amendments and repeal of administrative regulations to California Code of Regulations Title 24 also referred to as the California Building Standards Code Part 4 is known as the California Mechanical Code and incorporates by adoption the 2012 edition of the Uniform Mechanical Code of the International Association of Plumbing and Mechanical Officials with the California amendments Preface

Instrument and Automation Engineers' Handbook Bela G. Liptak,Kriszta Venczel,2022-08-31 The Instrument and Automation Engineers Handbook IAEH is the Number 1 process automation handbook in the world The two volumes in this greatly expanded Fifth Edition deal with measurement devices and analyzers Volume one Measurement and Safety covers safety sensors and the detectors of physical properties while volume two Analysis and Analysis describes the measurement of such analytical properties as composition Complete with 245 alphabetized chapters and a thorough index for quick access to specific information the IAEH Fifth Edition is a must have reference for instrument and automation engineers working in the chemical oil gas pharmaceutical pollution energy plastics paper wastewater food etc industries

The Passivhaus Designer's Manual Christina Hopfe,Robert McLeod,2015-10-05 Passivhaus is the fastest growing energy performance standard in the world with almost 50 000 buildings realised to date Applicable to both domestic and non domestic building types the strength of Passivhaus lies in the simplicity of the concept As European and global energy directives move ever closer towards Zero fossil Energy standards Passivhaus provides a robust fabric first approach from which to make the next step The Passivhaus Designers Manual is the most comprehensive technical guide available to those wishing to design and build Passivhaus and Zero Energy Buildings As a technical reference for architects engineers and construction professionals The Passivhaus Designers Manual provides State of the art guidance for anyone designing or working on a Passivhaus project In depth information on building services including high performance ventilation systems and ultra low energy heating and cooling systems Holistic design guidance

encompassing daylight design ecological materials thermal comfort indoor air quality and economics Practical advice on procurement methods project management and quality assurance Renewable energy systems suitable for Passivhaus and Zero Energy Buildings Practical case studies from the UK USA and Germany amongst others Detailed worked examples to show you how it's done and what to look out for Expert advice from 20 world renowned Passivhaus designers architects building physicists and engineers Lavishly illustrated with nearly 200 full colour illustrations and presented by two highly experienced specialists this is your one stop shop for comprehensive practical information on Passivhaus and Zero Energy buildings *90.1 User's Manual* American Society of Heating, Refrigerating and Air-Conditioning Engineers,2013

Energy Master Planning toward Net Zero Energy Resilient Public Communities Guide Alexander

Zhivov,2022-06-13 Best practices from around the world have proven that holistic Energy Master Planning can be the key to identifying cost effective solutions for energy systems that depend on climate zone density of energy users and local resources Energy Master Planning can be applied to various scales of communities e.g. to a group of buildings a campus a city a region or even an entire nation Although the integration of the energy master planning into the community master planning process may be a challenging task it also provides significant opportunities to support energy efficiency and community resilience by increasing budgets for investments derived from energy savings by providing more resilient and cost effective systems by increasing comfort and quality of life and by stimulating local production which boosts local economies The Guide is designed to provide a valuable information resource for those involved in community planning energy systems engineers architects energy managers and building operators Specifically this Guide was developed to support the application of the Energy Master Planning process through the lens of best practices and lessons learned from case studies from around the globe The Guide introduces concepts and metrics for energy system resilience methodologies and discusses business and financial models for Energy Master Plans implementation This information can help planners to establish objectives and constraints for energy planning and to select and apply available technologies and energy system architectures applicable to their diverse local energy supply and demand situations This Guide is a result of research conducted under the International Energy Agency IEA Energy in Buildings and Communities EBC Program Annex 73 and the US Department of Defense Environmental Security Technology Certification Program ESTCP project EW18 5281 to support the planning of Low Energy Resilient Public Communities process that is easy to understand and execute [Handbook of Energy Efficiency in Buildings](#) Umberto Desideri,Francesco Asdrubali,2018-11-12 Handbook of Energy Efficiency in Buildings A Life Cycle Approach offers a comprehensive and in depth coverage of the subject with a further focus on the Life Cycle The editors renowned academics invited a diverse group of researchers to develop original chapters for the book and managed to well integrate all contributions in a consistent volume Sections cover the role of the building sector on energy consumption and greenhouse gas emissions international technical standards laws and regulations building energy efficiency and zero

energy consumption buildings the life cycle assessment of buildings from construction to decommissioning and other timely topics The multidisciplinary approach to the subject makes it valuable for researchers and industry based Civil Construction and Architectural Engineers Researchers in related fields as built environment energy and sustainability at an urban scale will also benefit from the books integrated perspective Presents a complete and thorough coverage of energy efficiency in buildings Provides an integrated approach to all the different elements that impact energy efficiency Contains coverage of worldwide regulation *HVAC Equations, Data, and Rules of Thumb, Third Edition* Arthur A. Bell,W. Larsen

Angel,2015-12-22 This comprehensive volume often called the HVAC bible has been thoroughly updated to cover the latest code 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 book thoroughly explains the expansion of piping systems and temperature limitations of new materials such as polyethylene polypropylene PVC CPVC and PEX Detailed information is included for all types of facilities including offices hotels hospitals restaurants commercial spaces and 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 includes completely updated coverage of new pumps chillers air handling units cooling equipment boilers and pipe material You will get complete coverage of sustainability organizations that have become more important since last edition including LEED USGBC Energy Star Features hundreds of equations and 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 for all products featured *Green Building Illustrated* Francis D. K. Ching,Ian M. Shapiro,2020-11-04

FULLY ILLUSTRATED UPDATED GUIDE TO THE STRATEGIC DESIGN OF GREEN BUILDINGS In the tradition of Building Construction Illustrated Francis D K Ching and Ian M Shapiro offer a fully illustrated guide to the theory and practice of sustainable design This guide provides architects designers and builders in the green design professional community a framework and detailed strategies for designing substantively green buildings With a focus on sustainable sites approaching and reaching net zero energy low and zero water usage minimum impact materials and superior indoor environmental quality this guide explains why we need to build green as well as green building theory and advancements in the industry This Second Edition includes All new case studies featuring geographically diverse buildings with proven zero energy performance Expanded coverage of zero energy building design as well as zero water and zero waste buildings Practical guidance for the schematic design of high performance buildings heating and hot water system selection building envelope details and integrating renewable energy Advanced strategies such as the concept of shape efficiency and the optimal location for stairwells in buildings Additional strategies for affordability in green design and construction Updated references to the latest codes and standards This Second Edition of Green Building Illustrated is an excellent resource for professionals students and those interested in the design and construction of sustainable buildings Information Resources in Toxicology, Volume 1: Background,

Resources, and Tools ,2020-05-16 This new fifth edition of Information Resources in Toxicology offers a consolidated entry portal for the study research and practice of toxicology Both volumes represents a unique wide ranging curated international annotated bibliography and directory of major resources in toxicology and allied fields such as environmental and occupational health chemical safety and risk assessment The editors and authors are among the leaders of the profession sharing their cumulative wisdom in toxicology s subdisciplines This edition keeps pace with the digital world in directing and linking readers to relevant websites and other online tools Due to the increasing size of the hardcopy publication the current edition has been divided into two volumes to make it easier to handle and consult Volume 1 Background Resources and Tools arranged in 5 parts begins with chapters on the science of toxicology its history and informatics framework in Part 1 Part 2 continues with chapters organized by more specific subject such as cancer clinical toxicology genetic toxicology etc The categorization of chapters by resource format for example journals and newsletters technical reports organizations constitutes Part 3 Part 4 further considers toxicology s presence via the Internet databases and software tools Among the miscellaneous topics in the concluding Part 5 are laws and regulations professional education grants and funding and patents Volume 2 The Global Arena offers contributed chapters focusing on the toxicology contributions of over 40 countries followed by a glossary of toxicological terms and an appendix of popular quotations related to the field The book offered in both print and electronic formats is carefully structured indexed and cross referenced to enable users to easily find answers to their questions or serendipitously locate useful knowledge they were not originally aware they needed Among the many timely topics receiving increased emphasis are disaster preparedness nanotechnology omics risk assessment societal implications such as ethics and the precautionary principle climate change and children s environmental health Introductory chapters provide a backdrop to the science of toxicology its history the origin and status of toxicoinformatics and starting points for identifying resources Offers an extensive array of chapters organized by subject each highlighting resources such as journals databases organizations and review articles Includes chapters with an emphasis on format such as government reports general interest publications blogs and audiovisuals Explores recent internet trends web based databases and software tools in a section on the online environment Concludes with a miscellany of special topics such as laws and regulations chemical hazard communication resources careers and professional education K 12 resources funding poison control centers and patents Paired with Volume Two which focuses on global resources this set offers the most comprehensive compendium of print digital and organizational resources in the toxicological sciences with over 120 chapters contributions by experts and leaders in the field **Design of Water Resource Recovery Facilities, Manual of Practice No.8, Sixth Edition** Water Environment Federation,2017-09-29 Complete Coverage of the State of the Art in Water Resource Recovery Facility Design Featuring contributions from hundreds of wastewater engineering experts this fully updated guide presents the latest in facility planning configuration and design Design of Water Resource Recovery Facilities WEF Manual of Practice No 8 and

ASCE Manuals and Reports on Engineering Practice No 76 Sixth Edition covers key technical advances in wastewater treatment including Advances with membrane bioreactors applications Advancements within integrated fixed film activated sludge IFAS systems and moving bed biological reactors systems Biotrickling filtration for odor control Increased use of ballasted flocculation Enhanced nutrient control systems Sidestream nutrient removal to reduce the loading on the main nutrient removal process Use and application of wireless instrumentation Use and application of modeling wastewater treatment processes for the basis of design and evaluations of alternatives Process design and disinfection practices to minimize generation of TTHMs and other organics monitored for potable water quality Approaches to minimizing biosolids production and advances in biosolids handling including effective thermal hydrolysis and improvements in sludge thickening and dewatering technologies Increasing goals toward energy neutrality and driving net zero Trend toward resource recovery

2013 Building Energy Efficiency Standards for Residential and Nonresidential Buildings California Energy Commission,2012 **Good Houses** David Kroll,Veronica Soebarto,Arianna Brambilla,Ehsan Sharifi,2025-12-30 Good Houses brings together the design process building science and the environmental systems that can be used by both teachers and students in teaching and learning about designing good responsible houses The book approaches housing design holistically by taking its environment as the starting point integrating design processes more closely with architectural science and environmental systems Any building design can only be successful if these two aspects among others are considered as early as possible in the design process and inform the designer throughout the design process The book does not provide prescriptions or definitive answers on what is the best way to design a house Instead it aims to provide a structured way of what to consider at the different stages of the design process and the potential implications of the decisions made throughout this process It aligns sustainable design principles with the stages in the design process and provides guidance on how these can be connected Using international examples to illustrate the concepts from a wide range of climatic conditions the book is illustrated in full colour with over 200 plans sections diagrams and photographs It is essential reading for those designing residential projects **Design and Installation of Ground Source Heat Pump Systems for Commercial and Residential Buildings** ,2016 **Commercial Building Ventilation Effects on Indoor Air Quality, Human Health and Performance, and Building Energy Use and Implications for Future Ventilation Standards** William J. Fisk,Wanyu R. Chan,2016

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