

# ASHRAE GreenGuide

Design, Construction, and Operation  
of Sustainable Buildings

Fifth Edition

- Comprehensive guidance on sustainable buildings
- Major revisions to all chapters
- GreenTips with detailed insights for design and operation



# Ashrae Green Guide

**JR Anderson**



## **Ashrae Green Guide:**

ASHRAE Greenguide American Society of Heating, Refrigerating and Air-Conditioning Engineers,2022     *ASHRAE Greenguide* ,2018 Provides information on green building design Concerned with sustainable high performance projects

**ASHRAE Greenguide** American Society of Heating, Refrigerating and Air-Conditioning Engineers,ASHRAE (Firm),2013 Whether you are an HVAC and R system designer architect building owner building manager operator or contractor charged with designing a green building ASHRAE GreenGuide aims to help you answer your biggest question What do I do now Using an integrated building systems perspective it gives you the need to know information on what to do where to turn what to suggest and how to interact with other members of the design team in a productive way Information is provided on each stage of the building process from planning to operation and maintenance of a facility with emphasis on teamwork and close coordination among interested parties This fourth edition of ASHRAE GreenGuide is an easy to use reference with information on almost any subject that should be considered in green building design The GreenTips found throughout this edition highlight techniques processes measures or special systems in a concise often bulleted format Also information is provided in dual units Inch Pound I P and International System SI so that the content is easily applicable worldwide References and resources mentioned are listed at the end of each chapter for easy access     Ashrae Greenguide

,2014-05-14 The third edition of the ASHRAE GreenGuide features information for anyone charged with designing a sustainable building on a variety of green design issues that should be considered when tasked with this type of project

*ASHRAE Greenguide* ,2010 The third edition of the ASHRAE GreenGuide features information for anyone charged with designing a sustainable building on a variety of green design issues that should be considered when tasked with this type of project Provided by publisher     *ASHRAE GreenGuide* David L. Grumman,American Society of Heating, Refrigerating and Air-Conditioning Engineers,2003 The ASHRAE GreenGuide was developed primarily to provide guidance to designers of HVAC R systems in how to participate effectively on design teams charged with producing green buildings Provided by publisher     **The ASHRAE GreenGuide** ASHRAE Staff,2006-11 With a focus on how to apply proven Green Building Technology to the design and energy use of a building the ASHRAE GreenGuide provides mechanical engineers architects and construction engineers hand s on needed tips on everything from site location to the latest in energy saving HVAC Systems This new edition will carry that invaluable practical help forward with the latest on LEED Leadership on Energy and Environmental Design guidance as promulgated by the U S Green Buildings Council and will offer the latest in sustainable materials and systems specifications Moreover the new edition will be better organized around the actual construction project sequence from important Green decisions that must be made at the pre design and programmatic phases on through the actual construction documents and specifications and eventual Post occupancy It will also be greatly enhanced with new Green Tips including an expanded version of the Green Tip that focuses on specific building types Dual units have been

provided as well as more international HVAC engineering representation in the content authorship No other guide of this kind offers the authority and accuracy on green HVAC and building technologies like this book Offers the latest information on Building Automation Systems Renewable Energy Options CHP and GSHP systems and Construction Issues Provides dual units as well as more international HVAC engineering coverage Graphs photographs renderings and diagrams have been improved or added where necessary to provide a more complete overview of specific subject matter and to provide better clarity of detail References will be expanded and updated in order to make the Second Edition as current as possible when it is published including an extensive listing of online resources

*ASHRAE Greenguide*, 2018 Provides information on green building design Concerned with sustainable high performance projects

**Fundamentals of Integrated Design for Sustainable Building** Marian Keeler, Bill Burke, 2015-02-05 Fundamentals of Integrated Design for Sustainable Building offers an introduction to green building concepts as well as design approaches that reduce and can eventually eliminate the need for fossil fuel use in buildings while also conserving materials maximizing their efficiency protecting the indoor air from chemical intrusion and reducing the introduction of toxic materials into the environment It represents a necessary road map to the future designers builders and planners of a post carbon world from the Foreword by Ed Mazria A rich sourcebook covering the breadth of environmental building Fundamentals of Integrated Design for Sustainable Building introduces the student and practitioner to the history theory and technology of green building Using an active learning approach the concepts of sustainable architecture are explained and reinforced through design problems research exercises study questions team projects and discussion topics Chapters by specialists in the green movement round out this survey of all the important issues and developments that students and professionals need to know From history and philosophy to design technologies and practice this sweeping resource is sure to be referenced until worn out

*ASHRAE Greenguide : Design, Construction, and Operation of Sustainable Buildings*, 2013

**Energy Calculations and Problem Solving Sourcebook** Scott Dunning, Larry S. Katz, 2020-11-26 Based on the Body of Knowledge this book is designed to serve as a practical guide for energy professionals preparing to take AEE's Certified Energy Manager CEM examination The reference presents an overview of the specific areas of expertise referenced in the current Body of Knowledge in a guided preparatory format including detailed specifically targeted reference materials The full scope of energy calculations and problem solving strategies which must be mastered are presented covering relevant codes and standards energy accounting and economics electrical lighting and HVAC systems motors and drives industrial systems building envelope building automation and control systems renewable energy boiler and steam systems thermal storage maintenance commissioning alternative financing and much more Green Building LEED and Energy Star programs are also addressed The appendix provides a broad range of useful reference tables as well as mathematical formulas specific to each specific area of energy management addressed While aimed at those taking the ANSI certified CEM exam this text is also an excellent reference to be used throughout an

energy manager's professional career      *Heating and Cooling of Buildings* T. Reddy, Jan F. Kreider, Peter S. Curtiss, Ari Rabl, 2016-09-01 *Heating and Cooling of Buildings Principles and Practice of Energy Efficient Design* Third Edition is structured to provide a rigorous and comprehensive technical foundation and coverage to all the various elements inherent in the design of energy efficient and green buildings Along with numerous new and revised examples design case studies and homework problems the third edition includes the HCB software along with its extensive website material which contains a wealth of data to support design analysis and planning Based around current codes and standards the Third Edition explores the latest technologies that are central to design and operation of today's buildings It serves as an up to date technical resource for future designers practitioners and researchers wishing to acquire a firm scientific foundation for improving the design and performance of buildings and the comfort of their occupants For engineering and architecture students in undergraduate graduate classes this comprehensive textbook      **The Building Environment** Vaughn

Bradshaw, 2010-09-29 Get the updated guide to active and passive control systems for buildings To capitalize on today's rapidly evolving specialized technologies architects designers builders and contractors work together to plan the mechanical and electrical equipment that controls the indoor environment of a building *The Building Environment Active and Passive Control Systems* Third Edition helps you take advantage of design innovations and construction strategies that maximize the comfort safety and energy efficiency of buildings From active HVAC systems to passive methods lighting to on site power generation this updated edition explains how to strategically plan for and incorporate effective efficient systems in today's buildings It covers the underlying thermal theories and thermodynamic principles and focuses on design that enhances the building environment and minimizes the impact on the world's environment *The Building Environment* goes beyond the ABCs of HVAC and covers On site power generation including wind turbines solar photovoltaic cells fuel cells and more Plumbing systems fire protection signal systems conveying systems and architectural acoustics Procedures and or formulas for performing heat loss heat gain and energy use calculations determining the rate of heat flow calculating solar energy utilization doing load calculations and more Details on the latest building codes and standards references New information on the sustainable design of building systems and energy efficiency including new technologies The latest thinking and data on a building's impact on the environment indoor air quality and sick building syndrome Design economics including the payback period life cycle cost comparative value analysis and building commissioning A practical on the job tool for architects designers builders engineers contractors and other specialists this Third Edition is also a great reference for architecture students who will lead tomorrow's design teams      **HVAC Equations, Data, and Rules of Thumb, 2nd Ed.** Arthur Bell, 2007-10-14 *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 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.

*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.

Sustainable Environment and Transportation Ming Jin, Chu, Hui Zhong, Xu, Zhi Lin, Jia, Yun Fan, Jiang Ping, Xu, 2012-05-14. Selected peer-reviewed papers from the 2nd International Conference on Civil Engineering, Architecture, and Building Materials, CEABM 2012, May 25-27, 2012, Yantai, China.

### **Water Treatment Plant Design, Fifth Edition**

American Water Works Association, American Society of Civil Engineers, 2012-06-22. THE MOST TRUSTED AND UP TO DATE WATER TREATMENT PLANT DESIGN REFERENCE. Thoroughly revised to cover the latest standards, technologies, regulations, and sustainability practices. Water Treatment Plant Design, Fifth Edition, offers comprehensive guidance on

modernizing existing water treatment facilities and planning new ones This authoritative resource discusses the organization and execution of a water treatment plant project from planning and permitting through design construction and start up A joint publication of the American Water Works Association AWWA and the American Society of Civil Engineers ASCE this definitive guide contains contributions from renowned international experts COVERAGE INCLUDES Sustainability Master planning and treatment process selection Design and construction Intake facilities Aeration and air stripping Mixing coagulation and flocculation Clarification Slow sand and diatomaceous earth filtration Oxidation and disinfection Ultraviolet disinfection Precipitative softening Membrane processes Activated carbon adsorption Biological processes Process residuals Pilot plant design and construction Chemical systems Hydraulics Site selection and plant arrangement Environmental impacts and project permitting Architectural design HVAC plumbing and air supply systems Structural design Process instrumentation and controls Electrical systems Design reliability features Operations and maintenance considerations during plant design Staff training and plant start up Water system security and preparedness Construction cost estimating

**Water Treatment Plant Design 5/E** American Water Works Association,American Society of Civil Engineers,2012-07-10 THE MOST TRUSTED AND UP TO DATE WATER TREATMENT PLANT DESIGN REFERENCE Thoroughly revised to cover the latest standards technologies regulations and sustainability practices Water Treatment Plant Design Fifth Edition offers comprehensive guidance on modernizing existing water treatment facilities and planning new ones This authoritative resource discusses the organization and execution of a water treatment plant project from planning and permitting through design construction and start up A joint publication of the American Water Works Association AWWA and the American Society of Civil Engineers ASCE this definitive guide contains contributions from renowned international experts COVERAGE INCLUDES Sustainability Master planning and treatment process selection Design and construction Intake facilities Aeration and air stripping Mixing coagulation and flocculation Clarification Slow sand and diatomaceous earth filtration Oxidation and disinfection Ultraviolet disinfection Precipitative softening Membrane processes Activated carbon adsorption Biological processes Process residuals Pilot plant design and construction Chemical systems Hydraulics Site selection and plant arrangement Environmental impacts and project permitting Architectural design HVAC plumbing and air supply systems Structural design Process instrumentation and controls Electrical systems Design reliability features Operations and maintenance considerations during plant design Staff training and plant start up Water system security and preparedness Construction cost estimating     *The Journal of the Acoustical Society of America* ,2009     [The Impact of Environmental Law on Real Estate and Other Commercial Transactions](#) ,2008

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