



# Principles of Heating, Ventilating and Air Conditioning, 7th Edition

*American Society of Heating Refrigerating and Air-Conditioning Engineers*

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Principles of Heating, Ventilating, and Air Conditioning is a textbook based on the 2013 ASHRAE Handbook - Fundamentals. It contains the most current ASHRAE procedures and definitive, yet easy to understand, treatment of building HVAC systems, from basic principles through design and operation.

The material is divided into three major sections: General Concepts, Chapters 1-10; Air-Conditioning Systems, Chapters 11-16; and HVAC&R Equipment, Chapters 17-19. There are several significant changes in this revised edition. Chapter 4 has a new format as well as new values for climatic design information. Chapter 5 has a new table for typical thermal properties (resistance and thermal conductivity) of common building and insulating materials. This includes new values of heating, wind, cooling, and dehumidifying design conditions. Chapter 7 has been extensively revised with new design data. In addition, the chapters on system design and equipment have been significantly revised to reflect recent changes and concepts in modern heating and air-conditioning system practices.

This book includes access to a web site containing the Radiant Time Series (RTS) Method Load Calculation Spreadsheets, which are intended as an educational tool both for the student and for the experienced engineer wishing to explore the RTS method. These spreadsheets allow the user to perform RTS cooling load calculations for lights, people, equipment, walls/roofs, and fenestration components using design day weather profiles for any month. Cooling and heating loads can be calculated for individual rooms or block load zones. Twelve-month cooling calculations can be done to determine the month and time of peak cooling load for each room or block load zone. In addition, room/zone worksheets can be copied and modified within the spreadsheet to analyze as many rooms or zones as desired; the number of rooms/zones is limited only by the available computer memory.

Features:

- Incorporates much of the data and procedures from 2013 ASHRAE Handbook - Fundamentals
- Numerous examples and practice problems
- Can be used in undergraduate and graduate classes, technical schools and short courses

Benefit to the Customer:

- Complete reference for design professionals
- Comprehensive course book for students
- Includes access to spreadsheets for load calculations using the RTS Method

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning, and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing, and continuing education.

The ASHRAE Handbooks are the design standard for control of built environments with volumes on Systems and Equipment, HVAC Applications, Refrigeration and Fundamentals. Each is updated every four years. In addition to publishing design guidance for engineers, architects, and facility managers, we also

publish a series of texts for classroom use.

Some of the areas we publish in include:

- Energy Modeling and Auditing
- High Performance Building Design
- Psychrometrics
- Indoor Air Quality and Environmental Quality
- Data Center Energy Efficiency
- Noise & Vibration Control
- Humidity Control
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