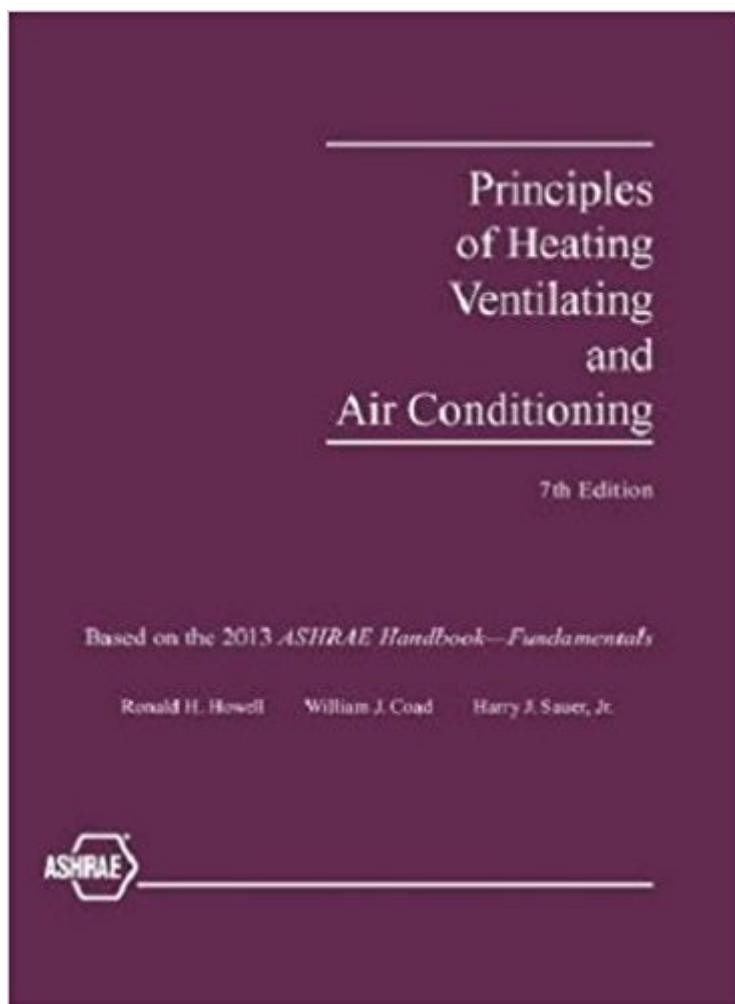


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# Principles Of Heating, Ventilating And Air Conditioning, 7th Edition



## Synopsis

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 -HVAC for Healthcare Facilities

## **Book Information**

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## **Customer Reviews**

Retired as professor and chair of mechanical engineering at the University of South Florida and is also professor emeritus of the University of Missouri-Rolla. For 40 years he taught courses in refrigeration, heating and air conditioning, thermal analysis, and related areas. He has been the principal or co-principal investigator of 12 ASHRAE-funded research projects. His industrial and consulting engineering experience ranges from ventilation and condensation problems to the development and implementation of a complete air curtain test program. Harry J. Sauer, Jr., PhD, PE, Fellow ASHRAE Was a professor of mechanical and aerospace engineering at the University of Missouri-Rolla. He taught courses in air conditioning, refrigeration, environmental quality analysis and control, and related areas. His research ranged from experimental boiling/condensing heat transfer and energy recovery equipment for HVAC systems to computer simulations of building energy use and actual monitoring of residential energy use. He served as an advisor to the Missouri state government and conducted energy auditor training programs for the US Department of Energy. William J. Coad, PE, Fellow ASHRAE Was ASHRAE president in 2001-2002. He has been with McClure Engineering Associates, St. Louis, Mo., for 40 years and is currently a consulting

principal. He is also president of Coad Engineering Enterprises. He has served as a consultant to the Missouri state government and was a lecturer in mechanical engineering for 12 years and an affiliate professor in the graduate program for 17 years at Washington University, St. Louis. He is the author of Energy Engineering and Management for Building Systems (Van Nostrand Reinhold).

If you are trying to learn HVAC, this book is not for you. If your college class requires this book, I suggest you drop that class. This book expects you to have strong underlying knowledge of every minuscule detail about thermodynamics, fluid dynamics, and heat transfer. The examples within the texts are garbage. There is no index, leaving you wondering on how to solve a problem from chapter 4 when you need a chapter 7 table never mentioned before. There are also mistakes in the equations outlined in within the chapters. In conclusion, this book is ONLY BARELY acceptable as a reference, nothing else.

Incredibly dense. May not be the best book to learn without the help of a professional HVAC engineer; however, contains the vast amount of ASHRAE documentation necessary to finish a complex HVAC design.

The new edition seems to have heeded due attention to the reviews about previous edition. Finally an index is added.

Read only 2 chapters and found any errata. For the price it should be better reviewed and have an index.

Doesn't even have a freaking index! The book is poorly laid out, the charts are scattered though the book and overall the information tends to have not been proof read for mistakes. Awful!

I am an Mechanical Engineering student and i want to work in the HVAC industry upon graduation. I wanted to learn all of the stuff in this book and I have spent a lot of time with this book. Having said all that, this is the worst textbook I have ever used in my life.

Book was in perfect conditions

Its great

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