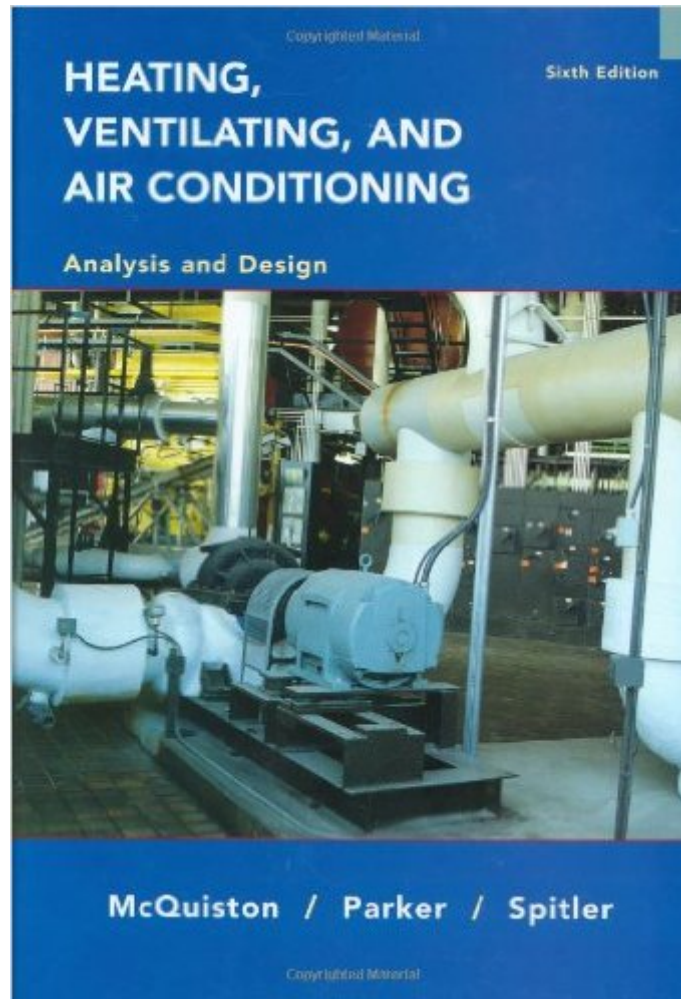


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# Heating, Ventilating And Air Conditioning Analysis And Design



## Synopsis

Based on the most recent standards from ASHRAE, the sixth edition provides complete and up-to-date coverage of all aspects of heating, ventilation, and air conditioning. You'll find the latest load calculation procedures, indoor air quality procedures, and issues related to ozone depletion. Also integrated throughout the text are numerous worked examples that clearly show you how to apply the concepts in realistic scenarios. The revision of this text continues to offer comprehensive treatment of heating, ventilation, and air conditioning concepts: All material is based on the updated ASHRAE Handbook and product criteria and uses both SI and English units. Practical, realistic problems are presented and the latest procedures and issues are covered. Suitable for advanced study in HVAC mechanical engineering, architectural engineering, and mechanical engineering technology departments.

## Book Information

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## Customer Reviews

This book is a good source for determining all the design needs for HVAC systems from calculating the heating /cooling load to duct design and fan selection which is essential to assure an economical, energy-efficient, maintainable and flex design that will not only be technically adequate but also meet the user within the allocated budget. I consider this book a key to get in the HVAC industry and a reference for HVAC study courses.

This book is equal in quality of content to edition 5 except that the version of edition 6 being sold

here does not contain the CD normally included with this textbook. The publisher's web site states "New to this edition (edition 6) is the inclusion of additional realistic, interactive and in-depth examples on CD". This CD would also contain the software that was included with edition 5. According to the publisher's tech support however, the version of edition 6 being sold by .com is for use under the guidance of an instructor where apparently the material on the CD would not be needed. If this book is for personal use I recommend a version that includes the CD.

...you could probably get a better HVAC book than this if you made the monkeys into gladiators and had an interpretive dance instructor record their combat movements as text. You could probably even skip the typewriters entirely and save yourself the maintenance costs. By far the worst textbook that I have owned throughout my mechanical engineering classes. Concepts are poorly explained and inconsistently detailed. Equations frequently fail to define any variables at all, or better yet include conversions within them to discourage the use of dimensionally homogeneous units. Sometimes variables are named and defined with functions, only to have the text inconspicuously declare a few pages later that a different variable will be used in its place henceforth. Some chapters provide multiple tables without fully defining what property the values actually are. Other chapters use tables that neglect to say what the data points even are until many pages later. Equations are occasionally outright wrong, such as  $(1/E) - (1/e_1) + (1/e_2) - 1e$ , which can be found on page 132. Chapter six provides two tables for the conductance of air but fails to declare whether either of them is accounting for radiant, convective, or conductive heat. Diagrams and their corresponding text are frequently on entirely different pages. I got a 3.5 in both fluid mechanics and thermodynamics, and find myself referring to those textbooks far more often than I do this one. I would rather the world freeze to death for lack of heating than give another \$180 to what I can only assume is a gang of clowns whose knowledge of the topic fails to extend beyond applying the ideal gas law to balloon animals.

This book has major discrepancies, simple mistakes and just does not do the material justice. This book was chosen as the text book for the first HVAC design course. Due to the distance to my university (roughly 60 miles), I do all of my work by myself between weekly classes. I have found obvious discrepancies in every single chapter. I am half way through chapter 6 and have had more trouble figuring out what's going on than any of my prior 36 college courses. This book does not label their units in examples, and they do not show where they came up with many of their numbers. The entire class agrees that 6 editions should be more than enough time to iron out any terrible

obvious mistakes. This is apparently not true. To finish off this review I'd like to say the book says it comes with a CD containing programs discussed in the text. Instead of a disk, it was packed with a slip of paper with a code on it. When the code was plugged in at Wiley's website, no access was granted. Not a single student was able to access the program. If you're looking for a good book to learn from, choose something else.

This is an excellent HVAC text. The concepts are clearly explained and well developed. The references in the book are current with ASHRAE standards which is of utmost utility and importance. The minor drawback from the text is the simplicity of the examples; fortunately the excellent explanation and development of the concepts by the authors helps in overcoming this small flaw. Excellent book overall. I highly recommend it.

Literally the title.. So many mistakes and a really irritating way of listing the figures. The example that you are working on will have the figures and drawings in the middle of the previous example's text. On almost every single example, the drawing is literally dead smack in the middle of working out another problem that has nothing to do with it. Imagine working half of a problem, then drawing a free body diagram of your next problem, then finishing up the problem you were working on, then do half of the problem for the interrupting FBD then draw the next one, etc.. I wonder which one of the three authors dreamed up that format..

By far the worst text book I've ever had to use. Riddled with errors. Poor and incomplete explanations of complex subject matter. Examples and problems often with errors. Does lead the student into intense studying of content, if only to understand exactly what authors are saying and whether it is correct or not. Included software worthless except for limited use in solving problems in text. This book should be offered free to India, Japan, and China to give us an edge over their HVAC engineering expertise.

There was talk from the professor/author that inferior copies, paperback and international versions were everywhere in the market, so care was advised when ordering. This was one of the least expensive used books I could find and was hard bound, current edition in excellent condition. Even had the code for the Wiley site inside. An impressive find. If it had come with a box of courtesy donuts, I would have given 5 stars.

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