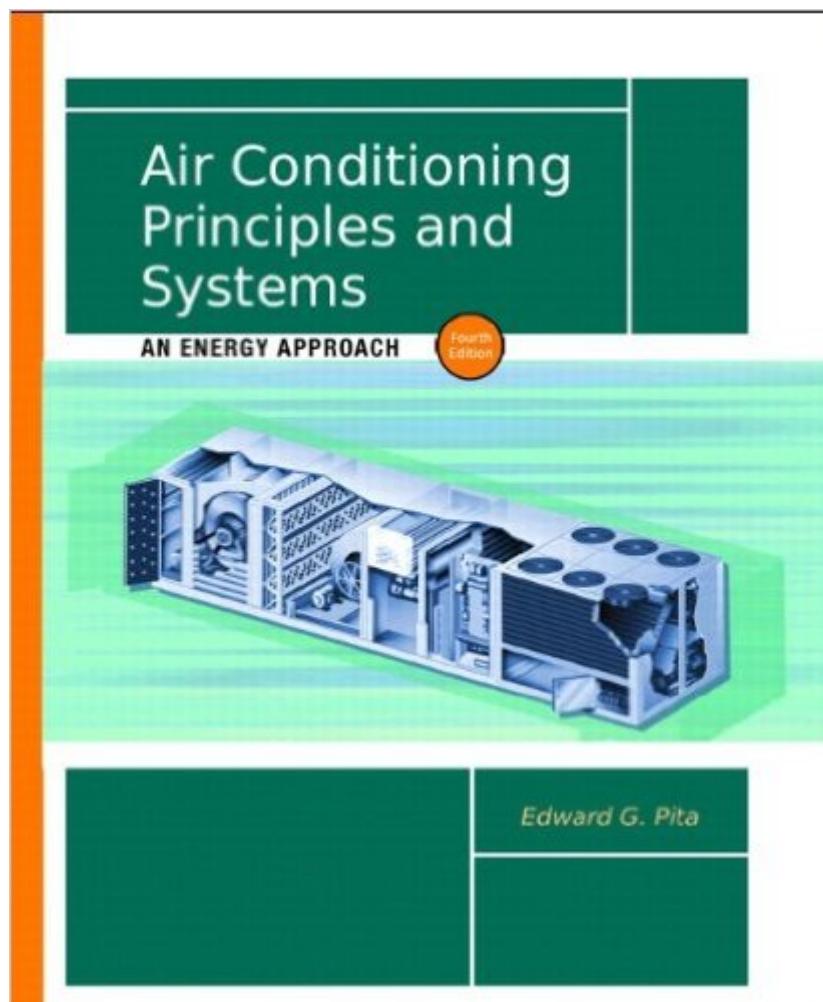


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# Air Conditioning Principles And Systems: An Energy Approach (4th Edition)



## Synopsis

Using a minimum of mathematics, this book explores the fundamental concepts of air conditioning and their application to systems—explaining all concepts in a clear, practical manner, and focusing on problems and examples typically encountered on the job. This book contains the most recent and industry-wide accepted information on load calculations, design data, equipment information, and use of the Internet. Specific chapter topics cover the scope and uses of air conditioning; physical principles; heating loads; furnaces and boilers; hydronic piping systems and terminal units; cooling load calculations; psychometrics; fluid flow in piping and ducts; piping, valves, ducts, and insulation; fans and air distribution devices; centrifugal pumps, expansion tanks, and venting; air conditioning systems and equipment; refrigeration systems and equipment; automatic controls; energy utilization and conservation; instrumentation, testing, and balancing; and planning and designing the HVAC system; and solar heating and cooling systems. For consulting engineers, mechanical contractors, HVAC engineers, designers, project managers, and facilities managers.

## Book Information

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Average Customer Review: 4.5 out of 5 stars—See all reviews (17 customer reviews)

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## Customer Reviews

This was a required textbook for an Intro to HVAC class I took while in college (architectural engineering major) and bought it, sold it, and then re-purchased this when I had to go back to something for my job. It was very well written with good examples and simplified (but not overly) theories. Would definitely recommend for anyone needing to reference/learn simple HVAC principals.

It tells you what you need to know, with the minimum of technical jargon. They did a particularly nice job of simplifying the idea of entropy without being way off base. This book is for people who want a solid understanding of what goes into designing systems. It is not a "how to" book, nor does it have lots of color pictures of controls, condensers, etc. It is exactly what it says on the cover: An energy oriented approach. I really like the book.

The text is pretty good. Straight forward, not too theoretical. But as a text for class, it would be really good if the problems at the end of each chapter had solutions or final answers. That's pretty typical of text books, every other question has an answer, so you can get an idea if you're doing things correctly. Without answers, it's somewhat like the blind leading the blind. I rented this text. The binding is shot. Pages are literally falling out. I don't know if that is from significant use from previous renters, or just poor quality by the publishers. Possibly both?

This book is the hallmark for an environmental technician studying the physics behind refrigeration and heating. I bought this for my major in college. The concepts may be hard to understand at times, but steady studying will help you understand the general underlying ideas.

Packs a lot of info into a small package. Good starting point for learning more systems in depth. The HVAC ocean is deep and wide, but with this you have a map.

This book is very good for students that look for direct explanations without the deceiving academic jargon. Fast delivery and very good packaging.

The product was shipped in a timely manor and was received as described. The context is written in a way that can actually be understood and provides clear descriptions and explanations.

I like this book. I believe this book must be written by the author who has profound knowledge on HVAC. Easy. And most of contents are connected to real world and phenomena around us.

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