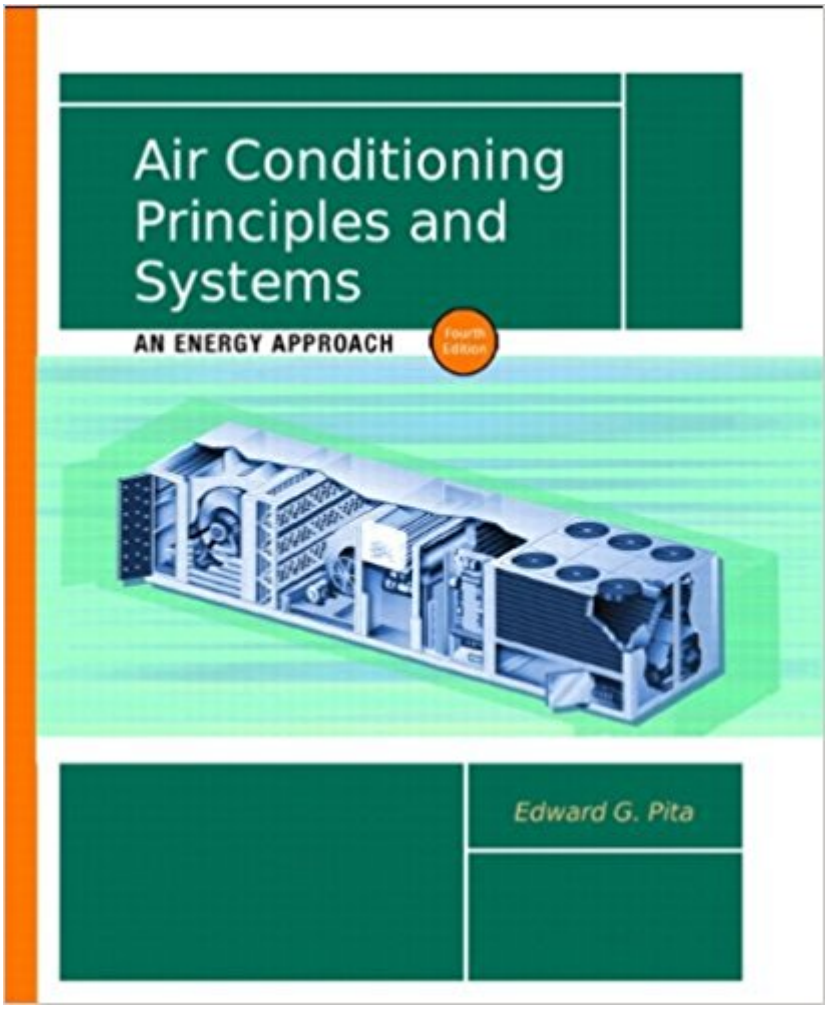
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Air Conditioning Principles And Systems: An Energy Approach (4th Edition)



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Synopsis

Using a minimum of mathematics, this book explores the fundamental concepts of air conditioning and their application to systemsÃ¢â ¬â •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; psychrometrics; 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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Customer Reviews

A classic in its field, Air Conditioning Principles and Systems continues to fill the need for a text book on air conditioning systems that combines design principles with real-world applications. Readers will gain insight into the design, operation, and troubleshooting of new and existing air conditioning systems. Moreover, this edition has been updated to reflect recent developments and

issues in the industry, including the increasing use of the Internet in the field. Key features of this edition: New weather data for outside temperature analysis and system design. Expanded information on environmental problems to help readers stay current on issues and regulations. New information about asbestos, including answers about mitigation of harmful effects. Further exploration on scroll compression and how it works in real-world applications.

Edward G. Pita is Professor Emeritus and Adjunct Professor in the Environmental Control Technology Department at New York City Technical College of the City University of New York. He received a B.S. degree from Purdue University, an M.S. degree from Columbia University, and a Ph.D. degree from the University of Maryland, all in mechanical engineering. He is a member of the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) and is a registered professional engineer. In addition to his career as an educator, Dr. Pita was chief mechanical engineer for a large consulting engineering firm responsible for HVAC projects for the United Nations, the State City of the Vatican, the U.S. Capitol, and many other governmental and private clients. He has also worked in applications and systems engineering for the Carrier Corporation and the Worthington Corporation.

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 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.

Excellent - very helpful.

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.

Came to me all falling a part

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.

Great

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