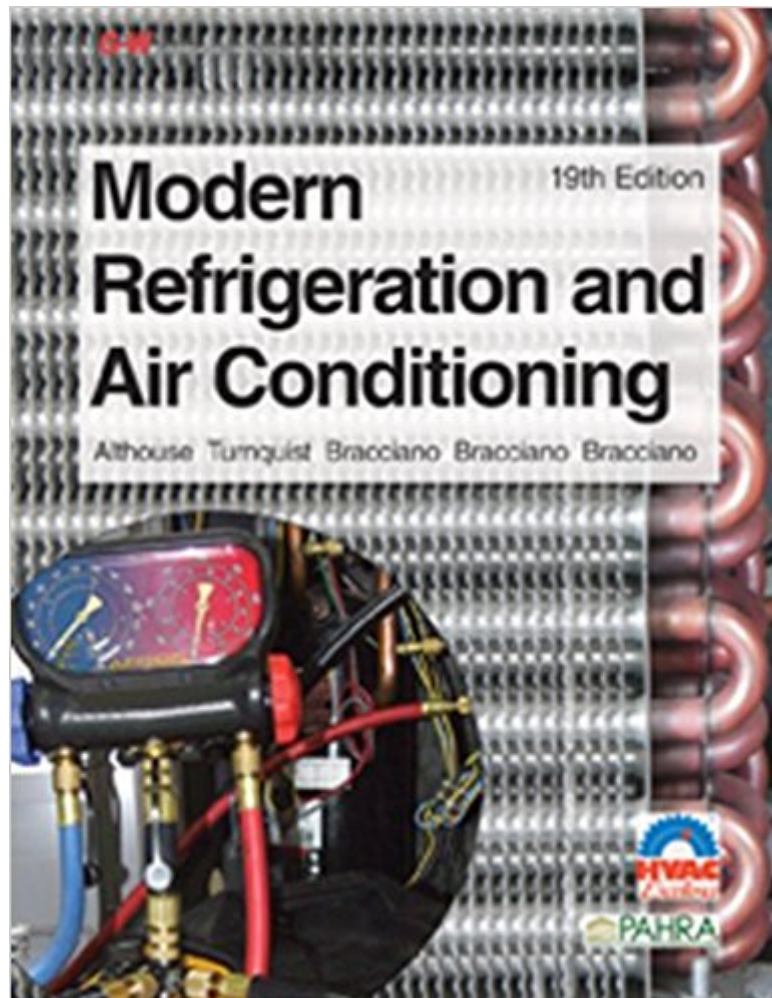




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# Modern Refrigeration And Air Conditioning



## Synopsis

Modern Refrigeration and Air Conditioning provides an excellent blend of theory, skill development, and service information, making it a leader in the refrigeration and air conditioning field. This comprehensive text teaches both fundamental principles and the service techniques needed to diagnose and remedy refrigeration and HVAC problems. In addition, this textbook also provides information on properly designing, sizing, and installing new HVAC-R systems. Modern Refrigeration and Air Conditioning has been extensively updated to improve readability and address recent developments in the HVAC-R field. This new edition includes information about the latest equipment, refrigerants, and environmentally responsible service procedures. An all new layout and revised text make the book easier to read and comprehend. In addition to updated content, the 19th edition of Modern Refrigeration and Air Conditioning has been reorganized to enhance student comprehension. Each section of the text builds on the concepts presented in earlier chapters. Students learn basic concepts early in the book and then apply what they have learned to increasingly complex systems, from the simplest domestic refrigerator to sophisticated commercial refrigeration systems. The teaching effectiveness of the text has been further improved by additional pedagogical tools. Chapter opening outlines give readers an overview of the chapter contents so they can see how key concepts in the chapter are interrelated. A Review of Key Concepts feature appears at the beginning of each chapter to help students relate previously learned concepts to the material presented in that chapter. Throughout the book, care has been taken to promote energy efficiency, from detailing proper system sizing and charging techniques to explaining the integration of solar heating systems. Factors affecting heating and cooling system efficiency are clearly explained in detail. Both students and practicing technicians will benefit from the comprehensive approach of this text, which provides a solid and thorough knowledge of all aspects of refrigeration and air conditioning.

## Book Information

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## Customer Reviews

Alfred F. Bracciano Alfred Bracciano received a Bachelor of Science degree in Industrial Education with Certification in Vocational Education from Wayne State University in Michigan. He also earned a Masters degree in Secondary Education and a Specialist degree in Administration and Supervision. Mr. Bracciano was employed as a teacher of Refrigeration and Air Conditioning for twelve years. He then became Director of Career and Technical Education for Warren Consolidated Schools in Warren, Michigan. He taught Community Resources Workshops for Michigan State University and presented at conferences throughout the country. Mr. Bracciano is a life member of the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), Refrigeration Service Engineers Society (RSES), Association for Career and Technical Education (ACTE), and the American Technical Education Association (ATEA). Daniel C. Bracciano Dan Bracciano graduated from Oakland University in Rochester Hills, Michigan, with a Bachelor of Science degree in Mechanical Engineering. He began his career in HVACR at the Warren Schools Career Center, graduating in HVACR, and worked in the HVACR field performing air conditioning installations and domestic and commercial refrigeration, heating and air conditioning service. Dan has 26 years of experience working in design development and manufacture of HVAC systems for General Motors, Mitsubishi Climate Control, and Alternative Energy Corporation. He holds several patents in the field, including a patent for a Modular Hermetic HVAC system. Dan is a member of the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) and the Mobile Air Conditioning Society (MACS). Gloria M. Bracciano Gloria Bracciano received a Bachelor degree in Education, a Masters degree in Curriculum and Instruction, and an Education Specialist degree in Administrative Leadership. She completed coursework in Heating, Ventilation, Air Conditioning and Refrigeration through Oakland and Macomb Community Colleges. Ms. Bracciano has worked in the field of education for over twenty-five years and has held positions as both university professor and administrator. Currently, she is the Provost of Gulliver Schools. Ms. Bracciano specializes in development and implementation of innovative curriculums and has

presented at local, state, and national conferences. Ms. Bracciano is a member of the American Society of Heating, Refrigerating and Air-Conditioning (ASHRAE), Refrigeration Service Engineers Society (RSES), and the American Technical Education Association (ATEA).

I bought this book here on back in 2007 and it has occasionally been useful for desk reference. There is an updated 19th edition from 2013 that hopefully includes more info on things like charging equipment using now common refrigerant blends, fan curves and high velocity [SDHV] systems, which understandably this older 18th edition from 2004 is sort of lacking. Overall, even though this book was fairly expensive I think it was worth what I paid for it at the time, but I'm still deciding whether or not I feel the need to purchase the newest edition of this Modern Refrigeration and Air Conditioning book.

I bought their earlier book and learned refrigeration from and passed my test without going to school. I gave my copy to a younger guy hoping he will do the same as I did...I didn't want to be without a copy, so I bought the newer edition which has some of the newer refrigerants in it.

This book is expensive but definitely worth it to own one. Put it simple, it makes me understand how AC really works, I'd never fear for not knowing what I am talking about again, or say something without knowing its root cause.

Got everything in it. Just what I was looking for.

required purchase

Ordered this for my husband & it's exactly what he needed. Saved \$30+ over the college book store price. Be sure to read the product description before ordering. Being offered is a hard cover book & workbook, at two different price points. When ordering online, I really rely on product reviews, and had I relied on previous reviews from folks that didn't look carefully at what they were ordering I wouldn't have made the purchase. Thankfully I read & felt comfortable knowing I would stand behind their product had it not have been what I needed. Thanks !

Needed this for my hvac courses it really helps understand alot if you're taking hvac courses this is the book for you it goes in detail every section from the mechanical refrigeration cycle to the

electricity to duct sizing to tools piping its very detailed I highly recommend the book in case theres things you miss while taking the courses it goes in great depth of detail

Somewhat contradicting in the early chapters, too detailed in some places. Some areas go into great detail and then close with an advisory that the above info is out of date or no longer applicable. I'm about half way through the book and only bought it because it was required for class. Very heavy, large book that I believe, given it's purpose, should be halved into two paperbacks.

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