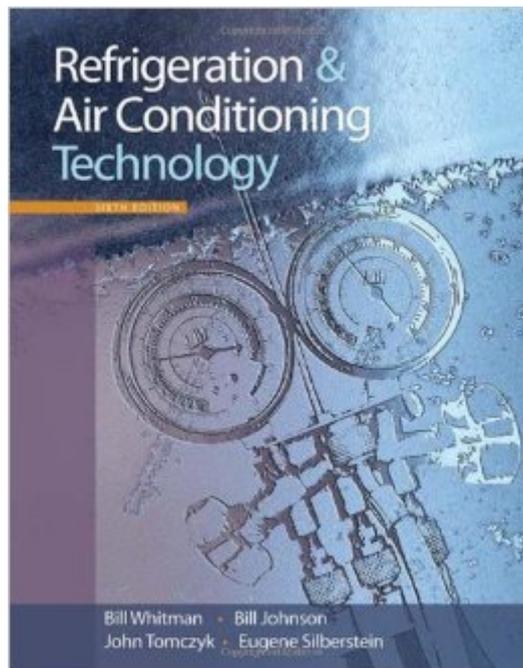


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# Refrigeration And Air Conditioning Technology (Available Titles CourseMate)



## Synopsis

Refrigeration and Air Conditioning Technology, 6th Edition, a time-honored best seller, has been updated and revised to provide superior hands-on information needed to successfully maintain and troubleshoot today's complex heating, air conditioning, and refrigeration systems. The new sixth edition contains units updated to include advances or changes in technology, procedures, and or equipment. Over 250 new images have been added to emphasize the practical application approach to the book. It fosters a solid foundation and understanding of environmental problems and their solutions, and displays a depth and detail of theory, diagnostics, and repair procedures that make this a fitting book for basic HVAC-R education as well as upgrading and certification training for technicians in the field.

## Book Information

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## Customer Reviews

This book is super. Having been an HVAC/R student, technician, and now teacher of the subject, I must say that Refrigeration & Air Conditioning Technology, 6th edition is the de facto bible of the HVAC/R field. Two other authors have been added since the first edition in 1989: Tomczyk (2000) and Silberstein (2008). The updates on this book only get better and better, continuing to cover more areas like the new refrigeration laws and even green energy. All technical questions are clearly explained, and in the back, there are hypothetical service questions related to real-life situations. This book is a must! If you are an instructor of the subject like I am, advise your students

to own a copy of it. You won't be steering them in the wrong direction.

This book is great for beginners as well as experienced technicians. Every explanation is detailed with pictures and graphs. All types of refrigeration applications are covered with the how to detail for installing and understanding every component in the system, including helpful tips and safety recommendations.

If you want a head full of worthless knowledge buy this book. Not one HVAC/R mechanic in a hundred-thousand knows the meaning of words like "adiabatic" and "enthalpy." You can master this book and not be able to fix a single air conditioner. Moreover, the practical information in this book is wrong. It tells you for brazing copper tubing to set the oxygen regulator to 10-14 psi, and the acetylene regulator to 5-10 psi. These settings are for cutting steel, not brazing copper. In reality they both oxygen and acetylene should be set at 4 or 5 psi. Moreover, they do not tell you how to purge your oxygen and acetylene hoses. They don't tell you to stand to the side when you turn them on, and to turn them on slowly. They do not advise you to use flashback arrestors. Moreover, anyone using an oxy-acetylene torch to make HVAC/R repairs is crazy. Today, smart techs use a Turbo torch with an MC tank. Which would you rather carry up a ladder through a small opening in a roof, a bulky 50 pound oxy-acetylene rig, or a 5 pound Turbo torch with an MC tank. The guys who wrote this book never worked in the field, never used a cordless drill, and must be in their late 90s. All the material is out of date. HVAC/R techs haven't used halide leak detectors in 50 years. None of the practical information you need to repair an air conditioning system is in this book. It doesn't even teach you how to wire or diagnose most modern day thermostats. There is nothing in this book about hermetic analyzers, how to use a hydrolic swaging tool, modern tubing benders, K-type thermocouples, the ZebraStat, the ZebraStat ECM analyzer, how to check refrigerant for the presence of acid, moisture, and non-condensibles, how to test a reversing valve or bring a dead one back to life, where systems typically leak, how to use a fluorescent dye to find a leak, the limitations of infrared thermometers, how to use an infrared thermal imager, and how to obtain 120 volts for your vacuum pump when you are evacuating a roof top unit. They don't tell you how many CFM your system should have. They don't teach you how to calculate Manual "J," or even what it means. They don't teach you how to unclog a condensate drain. They don't teach you how to install an a/c system or install a condensate drain. They don't discuss condensate drain safety shut-offs. They don't discuss how to clean a dirty coil. They teach you the operation of a King Valve, which you are not likely to ever see. They don't really discuss the kind of service valves that exist today. They don't

discuss how to install a saddle valve, a reversing valve, or the advantage of installing access ports at the air handler. When you go to a commercial system and water is dripping from the duct work they don't tell you the likely cause. In fact, they really don't teach you how to diagnose what is wrong with HVAC/R systems. The examples they do give are woefully incomplete. I teach air conditioning. I found this book hopelessly out of day, and unreadable. The authors brag that they are members of RSES. Anyone who pays a few dollars can be a member of RSES. I am a RSES Certified Master, which itself means absolutely nothing. The book is good as a paperweight.

This book is well written colorfully illustrated. This 6th edition contains the most recent information on R-410a and its application. I have passed the EPA section 608 Universal Certification and plan to use the book to further my knowledge. In my opinion this book it is the best for HVAC training. I discovered it at our local library but it was usually checked out when I needed it--- so I decided to buy it.

This review is about the integrity of the book as well as that of the authors. Section 9, Pages 1145 thru 1248 (3 units/105 pages on Domestic appliances) are missing from this book. That's correct, 105 pages (3 chapters) were intentionally omitted in the printing. There is a notation page that indicates that section 9 can be found on a back of book CD that is proprietary to Microsoft and only pdf files can be read on Mac. It seems this is an intended device to sell an instructional series of DVD's. (\$1,500)? Most of the book is in the book but some of it is not????? I guess the rumors are true, there are no more standards. And this book is a classic example. I'm not new to HVAC/R. Not hardly. I bought this book for reference on the new refrigerants and their characteristics and will not read other parts. However, I believe that a book (the printed page) should be bound together as a complete work and without exception. Setting a part of it aside in a different format as a sales pitch for something else is offensive. It becomes more so when you consider that CD/DVD technology is obsolete. The world is now digital and newer computers no longer support CD/DVD medium. Had I known I would not have purchased it on principle. The fact that I purchased it used is not much consolation. I would not recommend it. In fact, any book on R/AC that is complete in the printing cover to cover, will be a better book, for just that reason. I also agree to some extent with another critical review. There are parts missing that should not be and this is typical of a book by instructors who have never been out of a classroom. The best teachers will always be the ones that actually do the work. Imagine buying a dictionary or other reference books done this way.

It's a good book. I have no problem with the actual book, but the copy we received had parts cut out of pages, most in the table of contents, which is very important to have intact. There were also dark orange highlighter markings on many passages that made it difficult to read the text. None of this was mentioned before we purchased it. The book was not in good shape. We ended up having to send it back, and then had to pay for the return shipping.

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