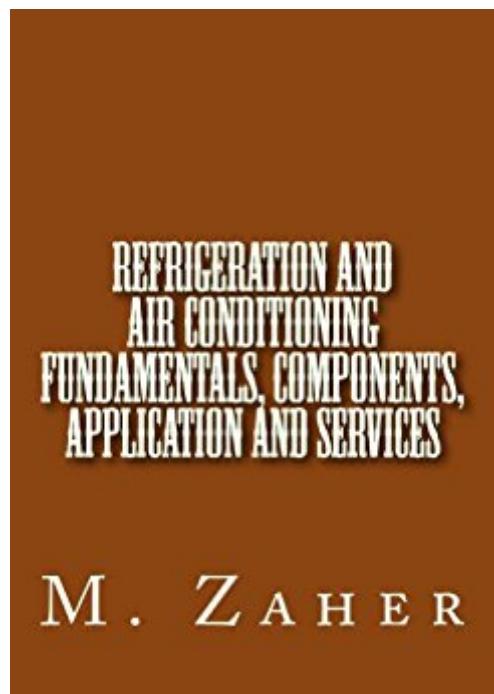


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# Refrigeration And Air Conditioning Fundamentals, Components, Application And Services



## **Synopsis**

The use of refrigeration, either directly or as part of an air-conditioning system, is essential to almost every branch of industry. A complete up-to-date guide to refrigeration and Air-conditioning is fully endorsed to cover the latest techniques, tools, refrigerants, and equipment. The book provides a thorough introduction to the basic principles and practices of refrigeration and air-conditioning industry. Step-by-step instructions, along with vivid figures, demonstrate efficient and current methods for choosing, installing, maintaining, servicing, and repair todayâ™s cooling and climate control systems. Figures and diagrams were specially prepared in order to illustrate key ideas, relevant concepts and explain general types of components. The book provides a comprehensive introduction to the principles and practice of refrigeration and air-conditioning and is designed to serve many purposes: It can be used for undergraduate courses, graduate courses, intensive short courses, in-put training, self-study, and as a useful reference text for engineers and maintenance personnel. The text help engineering students develop an intuitive understanding of refrigeration and air-conditioning by emphasizing the physics. The book comprises ten chapters covering various fundamental physical concepts, with a separate section on SI units, and provides tools which can be used to answer directly practical problems. It also provides information about different components within the refrigeration and air-conditioning systems and their application in food processing, aircraft and automotive systems. Application of solar powered refrigeration and air-conditioning with new trends using High Temperature Superconductors (HTS) is also included. Reference to refrigeration and air-conditioning engineering services include testing methods and equipment, start-up, troubleshooting and safety. The book aims to be simple as is compatible with a reasonable complete treatment of the subject. It is not the intent of this book to present a complete literature survey. Some pertinent literature and reference books are listed so the reader can pursue topics in more depth, if he/she so desires. If this book results in the better education of many more people in the field of refrigeration and air-conditioning, particularly the young people in colleges / universities and in a greater awareness of the cost as well as of the means for successful application, this book will have served its major purpose.

## **Book Information**

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## Customer Reviews

I graduated from Army refrigeration school 27 years ago, and never worked in the field. I have an opportunity to work for the refrigeration department of the company that I've worked for since 1989, and wanted to brush up on some terms and principles. This book was very helpful in doing that.

It ok get what you pay for

Great book

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