

# Modern Refrigeration Air Conditioning Workbook

Refrigerant Charging and Service Procedures for Air Conditioning

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the lab manual can be used for programs in the air conditioning refrigeration and heating trades it is service oriented but with the necessary theory and principles to know the hows

and whys of servicing air conditioning refrigeration and heating systems

the modern refrigeration and air conditioning workbook is designed for use with the text modern refrigeration and air conditioning each workbook chapter should be completed after reading the corresponding text chapter the workbook serves as an open book quiz on the contents of the textbook each chapter of the workbook includes a variety of question types the types of questions include multiple choice true or false matching and short answer some questions involve calculations the workbook questions are grouped by textbook section for easy usability each workbook chapter ends with a critical thinking section the questions in these sections will allow you to consider and apply the knowledge you have gained from the chapter content reading modern refrigeration and air conditioning and using this workbook will help you acquire a working knowledge of the principles of refrigeration and air conditioning and their application answering the questions for each chapter will help you master the technical knowledge presented in the text

this book presents the most current design procedures in heating ventilation and air conditioning hvac available in handbooks like the ashrae american society of heating refrigeration and air conditioning engineers handbook 2013 fundamentals in a way that is easier for students to understand every effort is made to explain in detail the fundamental physical principles that form the basis of the various design procedures a novel feature of the book is the inclusion of about 15 worked examples in each chapter carefully chosen to highlight the diverse aspects of hvac design the solutions for the worked examples clarify the physical principles behind the design method in addition there are problems at the end of each chapter for which numerical answers are provided the book includes a

series of matlab programs that may be used to solve realistic hvac design problems which in general require extensive and repetitive calculations remove supplementary materials are available upon request for all instructors who adopt this book as a course text please send your request to sales wspc com

the multicolr edition has been thoroughly revised and brought up to date multicolor pictures have been added to enhance the content value and to give the students and idea of what he will be dealing in relity and to bridge the gap between theory and practice

heating ventilation and air conditioning hvac systems are omnipresent in modern buildings this book is an introduction to all those involved in the specification design manufacture installation operation or maintainance of these systems the book explains the objectives to be achieved by a system in terms of environmental control the description of a system including primary equipment means of distribution space and load determination and operating strategy the basic function of components that form hvac systems the layout and functioning of common hvac systems including all air systems air water systems and all water systems the strategies for operating systems and their basic means of control identifying the most suitable type of system for different types of application air conditioning is a major growth industry this introduction to how systems operate and how to select design and operate them effectively endorsed by and developed with ashrae the leading trade body and recognised technical experts provides a thorough introduction to how hvac systems function in controlling temperature air quality and air circulation in a controlled space

this handy book contains properties of refrigerants insulating materials saturated air some

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