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Conditioning, and Cold Storage Tropical Refrigeration and Air-conditioning G F Hundy RS Khurmi | JK Gupta Allan T. Kirkpatrick Allan Kirkpatrick W. F. Stoecker P. N. Ananthanarayanan Fabio Polonara Canada. Department of Labour. National Committee on the Refrigeration and Air Conditioning Trade Refrigeration and Air Conditioning Institute, Chicago Manohar Prasad G F Hundy Wilbert F. Stoecker United Nations Environment Programme. Refrigeration, Air Conditioning, and Heat Pumps Technical Options Committee S. N. SAPALI Refrigeration and Air Conditioning Institute, Chicago Stephen Michael Elonka Billy C. Langley Rex Miller Raymond C. Gunther L. W. Cottell

now in its fourth edition this respected text delivers a comprehensive introduction to the principles and practice of refrigeration clear and straightforward it is designed for students nvq vocational level and professional hvac engineers including those on short or cpd courses inexperienced readers are provided with a comprehensive introduction to the fundamentals of the technology with its concise style yet broad sweep the book covers most of the applications professionals will encounter enabling them to understand specify commission use and maintain these systems many readers will appreciate the clarity with which the book covers the subject without swamping them with detailed technical or product specific information new material in this edition includes the latest developments in refrigerants and lubricants together with updated information on compressors heat exchangers liquid chillers electronic expansion valves controls and cold storage topics also covered include efficiency environmental impact split systems retail refrigeration supermarket systems and cold rooms industrial systems fans air infiltration and noise author informationguy hundy studied mechanical engineering at leeds university uk he started his career in the refrigeration industry with j e hall ltd dartford in 1985 he joined copeland europe and in 1998 he was appointed director application engineering copeland europe he has authored and co authored papers and articles on compressors applications and refrigerant changeover topics guy hundy is a chartered engineer and works as a technical consultant he is past president of the institute of refrigeration covers principles methods and application of refrigeration air conditioning and heat pumps in a concise volume without the encumbrance of handbook information found in other volumes ideal for students and professionals in other disciplines not too theoretical but with sufficient depth to give an understanding of the issues this book takes the reader from the fundamentals through to system design applications contract specifications and maintenance full revision by guy hundy with new diagrams and illustrations

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

this second edition builds on the foundation established by the previous first edition published in 2017 the first edition covered background information description and analysis of four major cooling system technologies vapor compression cooling evaporative cooling absorption cooling and gas cooling the second edition has been expanded to include increased coverage of cooling system refrigerants fluid mechanics heat transfer and building cooling loads with increasing climate change due to the buildup of greenhouse gas emissions in the atmosphere there has been a worldwide impetus to transition to cooling systems and refrigerants that have a low or even zero global warming potential the text is written as a tutorial for engineering students and practicing engineers who want to become more familiar with the performance of refrigeration and air conditioning systems the goals are to familiarize the reader with cooling technology nomenclature and provide insight into how refrigeration and air conditioning systems can be modeled and analyzed emphasis is placed on constructing idealized thermodynamic cycles to represent actual physical situations in cooling systems the book contains numerous practical examples to show how one can calculate the performance of cooling system components by becoming familiar with the analyses presented in the examples one can gain a feel for representative values of the various thermal and mechanical parameters that characterize cooling systems

this text provides background information description and analysis of four major cooling system technologies vapor compression cooling evaporative cooling absorption cooling and gas cooling vapor compression systems are currently the primary technology used in most standard domestic commercial and industrial cooling applications as they have both performance and economic advantages over the other competing cooling systems however there are many other applications in which evaporative cooling absorption cooling or gas cooling technologies are a preferred choice the main focus of the text is on the application of the thermal sciences to refrigeration and air conditioning systems the goals are to familiarize the reader with cooling technology nomenclature and provide insight into how refrigeration and air conditioning systems can be modeled and analyzed cooling systems are inherently complex as the second law of thermodynamics does not allow thermal energy to be transferred directly from a lower temperature to a higher temperature so the heat transfer is done indirectly through a thermodynamic cycle emphasis is placed on constructing idealized thermodynamic cycles to

represent actual physical situations in cooling systems the text also contains numerous practical examples to show how one can calculate the performance of cooling system components by becoming familiar with the analyses presented in the examples one can gain a feel for the representative values of the various thermal and mechanical parameters that characterize cooling systems

this text looks at refrigeration and air conditioning looking at the different methods and systems of cooling

refrigeration air conditioning and heat pumps rachp have an important impact on the final energy uses of many sectors of modern society such as residential commercial industrial transport and automotive moreover rachp also have an important environmental impact due to the working fluids that deplete the stratospheric ozone layer which are being phased out according to the montreal protocol 1989 last but not least high global working potential gwp working fluids directly and energy consumption indirectly are responsible for a non negligible quota of greenhouse gas ghg emissions in the atmosphere thus impacting climate change

the revised edition of a widely used book contains several new topics to make the coverage more comprehensive and contemporary highlights the ozone hole problem and related steps to modify the refrigeration systems the discussion of vapour compression absorption systems totally recast with a special emphasis on eco refrigerants application oriented approach followed throughout the book and energy efficiency emphasised several real life problems included to illustrate the practical viability of the systems discussed additional examples diagrams and problems included in each chapter for an easier grasp of the subject with all these features this book would serve as a comprehensive text for undergraduate mechanical engineering students postgraduate students and practising engineers would also find it very useful

refrigeration air conditioning and heat pumps fifth edition provides a comprehensive introduction to the principles and practice of refrigeration clear and comprehensive it is suitable for both trainee and professional hvac engineers with a straightforward approach that also helps inexperienced readers gain a comprehensive introduction to the fundamentals of the technology with its concise style and broad scope the book covers most of the equipment and applications professionals will encounter the simplicity of the descriptions helps users understand specify commission use and maintain these systems it is a must have text for anyone who needs thorough foundational information on refrigeration and air conditioning but without

textbook pedagogy it includes detailed technicalities or product specific information new material to this edition includes the latest developments in refrigerants and lubricants together with updated information on compressors heat exchangers liquid chillers electronic expansion valves controls and cold storage in addition efficiency environmental impact split systems retail refrigeration supermarket systems and cold rooms industrial systems fans air infiltration and noise are also included full theoretical and practical treatment of current issues and trends in refrigeration and air conditioning technology meets the needs of industry practitioners and system designers who need a rigorous but accessible reference to the latest developments in refrigeration and ac that is supported by coverage at a level not found in typical course textbooks new edition features updated content on refrigerants microchannel technology noise condensers data centers and electronic control

this is a thorough revision of the definitive classic text for any level course on refrigeration refrigeration and air conditioning and environmental control in buildings it is an equipment oriented textbook that applies theoretical results of engineering theories to refrigeration and air conditioning engineering problems this enables the student to understand both common and uncommon problems in designing selecting and applying air conditioning and refrigeration components and systems the material has been updated to apply to the new environmental protection agency requirements and to the new technology developed in response to the energy crisis new to this edition is a discussion of solar energy coverage of the basic principles of acoustics and noise control in relation to air conditioning systems fans and ducts pumps and piping and air conditioning units while all the material in the text can be understood and executed without computers alternate computer solutions are shown for system simulation si units are used throughout

this book provides a first course in refrigeration and air conditioning the subject matter has been developed in a logical and coherent manner with neat illustrations and a fairly large number of solved examples and unsolved problems the text developed from the author s teaching experience of many years is suitable for the senior level undergraduate and first year postgraduate students of mechanical engineering automobile engineering as well as chemical engineering the text commences with an introduction to the fundamentals of thermodynamics and a brief treatment of the various methods of refrigeration then follows the detailed discussion and analysis of air refrigeration systems vapour compression and vapour absorption refrigeration systems with special emphasis on developing sound physical concepts and gaining problem solving skills refrigerants are exhaustively dealt with in a separate chapter the remainder chapters of the book deal with psychrometry

and various processes required for the analysis of air conditioning systems technical descriptions of compressors evaporators condensers expansion devices and ducts are provided along with design practices for cooling and heating load calculations finally a brief review of the basic principles and applications of cryogenic gases and air liquefaction systems are given

tropical refrigeration and air conditioning covers the syllabuses of theoretical and practical craft level examinations in refrigeration and air conditioning it is designed for trainee installation and service engineers and will be of permanent practical value to them in their work key features of the book are over 200 photographs and clearly labelled illustrations glossary of important terms sample examination papers for evaluation and revision a trouble shooting chart for identifying and remedying defects in equipment

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