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Principles of Tropical Air Conditioning
is written with the humid tropics in

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mind. It is intended to meet the syllabus of the Higher National Diploma (HND) or equivalent professional examinations in Building Services Engineering. It is also designed to cover the air conditioning course content of the new Bachelor of Engineering (B. Eng) degree approved

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by the National Universities

Commission. It is specifically focused in providing design data for tropical air conditioning system design and provides illustrative examples that can give young practitioners enough information to evaluate air conditioning and refrigeration cooling loads and

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equipment selection with minimum supervision. In addition, Principles of Tropical Air Conditioning serves as quick reference source containing useful design data and parameters often required by the practicing engineer.

The Revised Edition Of A Widely Used

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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

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Totally Recast With A Special
Emphasis On Eco-Refrigerants. *
Application Oriented Approach
Followed Throughout The Book And
Energy Efficiencyemphasised. *
Several Real Life Problems Included
To Illustrate The Practical Viability Of
The Systems Discussed. * Additional

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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

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Would Also Find It Very Useful.

* A broad range of disciplines--energy conservation and air quality issues, construction and design, and the manufacture of temperature-sensitive products and materials--is covered in this comprehensive handbook *

Provide essential, up-to-date HVAC

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data, codes, standards, and guidelines, all conveniently located in one volume * A definitive reference source on the design, selection and operation of A/C and refrigeration systems

Mechanical Engineering News
Heat Sinks, Thermoelectrics, Heat

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Pipes, Compact Heat Exchangers, and
Solar Cells

Handbook of Air Conditioning and
Refrigeration

The Publishers' Trade List Annual
Heat-Transfer Equipment

This comprehensive book is a

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valuable and readable reference text and source for anyone who wishes to learn about food cooling applications and methods of analysis of the heat transfer during these applications.

Recent rapid globalisation of

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manufacturing industries leads to a drive and thirst for rapid advancements in technological development and expertise in the fields of advanced design and manufacturing, especially at their interfaces. This development results

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in many economical benefits to and improvement of quality of life for many people all over the world. Technically speaking, this rapid development also create many opportunities and challenges for both industrialists and academics,

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as the design requirements and constraints have completely changed in this global design and manufacture environment.

Consequently the way to design, manufacture and realise products have changed as well. The days of

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designing for a local market and using local suppliers in manufacturing have gone, if enterprises aim to maintain their competitiveness and global expansion leading to further success. In this global context and

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scenario, both industry and the academia have an urgent need to equip themselves with the latest knowledge, technology and methods developed for engineering design and manufacture. To address this shift in engineering design and

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manufacture, supported by the European Commission under the Asia Link Programme with a project title FASTAHEAD (A Framework Approach to Strengthening Asian Higher Education in Advanced Design and Manufacture), three key

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project partners, namely the University of Strathclyde of the United Kingdom, Northwestern Polytechnical University of China, and the Troyes University of Technology of France organised a third international conference.

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This text covers the fundamental science and design principles of air conditioning engineering for the student and professional alike. This new edition has been updated to provide greater coverage of developments in safety, hygiene and

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reduced energy consumption. An
ELBS/LPBB edition is available.

Air Conditioning Engineering
Heating, Ventilating, and Air
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Perry's Chemical Engineers'
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***conditioning units
through an analytical
synthesis of the
principles of
thermodynamics, heat
transfer and fluid
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The text begins by reviewing, in a simple and precise manner, the physical principles of three pillars of Refrigeration and Air Conditioning, namely

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thermodynamics, heat transfer, and fluid mechanics. Following an overview of the history of refrigeration, subsequent chapters provide exhaustive

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***coverage of the
principles, applications
and design of several
types of refrigeration
systems and their
associated components
such as compressors,***

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***condensers, evaporators,
and expansion devices.
Refrigerants too, are
studied elaboratively in
an exclusive chapter.
The second part of the
book, beginning with the***

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***historical background of
air conditioning in
Chapter 15, discusses
the subject of
psychrometrics being at
the heart of
understanding the design***

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***and implementation of
air conditioning
processes and systems,
which are subsequently
dealt with in Chapters
16 to 23. It also
explains the design***

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practices followed for cooling and heating load calculations. Each chapter contains several worked-out examples that clarify the material discussed and illustrate

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the use of basic principles in engineering applications. Each chapter also ends with a set of few review questions to serve as

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***revision of the material
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Inside This Updated
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***Quarterly Bulletin
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Ventilating and Air
Conditioning, Sixth Edition is*

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complete and covers both hardware control systems and modern control technology. The material is presented without bias and without prejudice toward particular hardware or

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software. Readers with an engineering degree will be reminded of the psychrometric processes associated with heating and air conditioning as they learn of the various controls

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schemes used in the variety of heating and air conditioning system types they will encountered in the field. Maintenance technicians will also find the book useful because it

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describes various control hardware and control strategies that were used in the past and are prevalent in most existing heating and air conditioning systems.

Designers of new systems

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will find the fundamentals described in this book to be a useful starting point, and they will also benefit from descriptions of new digital technologies and energy management systems. This

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technology is found in modern building HVAC system designs.

This book describes the state of the art at the interface between energy and environmental research. The

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contributing authors are some of the world leaders in research and education on energy and environmental topics. The coverage is worth noting for its breadth and depth. The book begins with

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the latest trends in applied thermodynamics: the methods of exergy analysis, entropy generation minimization and thermoeconomics. It continues with the most

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*modern developments in
energy processing and
conservation techniques:
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environmental systems. The environmental impact of energy systems is documented in a diversity of applications such as the flow of hazardous waste through cracks and porous media,

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thermally induced flows through coastal waters near power plants, and lake ecology in the vicinity of pumped storage systems. The book outlines new research directions such as

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the manufacturing of novel materials from solid waste, advances in radiative transport, the measurement of convective heat transfer in gas turbines and environmentally acceptable

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refrigerants. The book is rich in engineering design data that make a concrete statement on topics of world wide interest, e.g., toxic emissions, the depletion of energy resources, global

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environmental change (global warming), and future trends in the power generation industries. Written by leaders in research and education, this book is an excellent text or

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*supplement for
undergraduate and graduate
courses on energy
engineering and
environmental science.*

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Examples
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Handbook, 9th Edition*

English abstracts from Kholodil'naia
tekhnika.

This book presents the most current
design procedures in heating,

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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

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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

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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

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extensive and repetitive calculations.
Contents: Introduction to Heating,
Ventilation and Air Conditioning Heat
Transfer Principles Refrigeration
Cycles for Air Conditioning
Applications Psychrometric
Principles Psychrometric Processes for
Heating and Air Conditioning Direct-

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Contact Transfer Processes and
EquipmentHeat Exchangers and
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and Heating Load CalculationsAir
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Systems Building Energy Estimating
and Modeling Methods Readership:
Academics, practicing engineers,
professionals, postgraduate and
undergraduate students in mechanical
engineering, building management,
architecture, civil engineering and
energy studies.

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Keywords:HVAC;Heating;Air
Conditioning;Worked Examples
The 2014 ASHRAE
Handbook--Refrigeration covers the
refrigeration equipment and systems
for applications other than human
comfort. This volume includes data
and guidance on cooling, freezing, and

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storing food; industrial and medical applications of refrigeration; and low-temperature refrigeration. The 2014 ASHRAE Handbook--Refrigeration CD, in both I-P and SI editions, contains PDFs of chapters easily viewable using Adobe Reader. This product must be installed on user's

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computer. Product cannot be read directly from CD and is not compatible with mobile devices. Opened software cannot be returned for refund or credit.

PRINCIPLES OF TROPICAL AIR
CONDITIONING

Thermal Design

IECEC-90, August 12-17, 1990, Reno,

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Nevada

ASHRAE Brochure on Psychrometry
REFRIGERATION AND AIR
CONDITIONING

*Designed for students
and professional
engineers, the fifth*

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edition of this classic text deals with fundamental science and design principles of air conditioning engineering systems. W P Jones is an acknowledged expert in

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the field, and he uses his experience as a lecturer to present the material in a logical and accessible manner, always introducing new techniques with the use

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of worked examples.

*Based on the most recent
standards from ASHRAE,
the sixth edition
provides complete and up-
to-date coverage of all
aspects of heating,*

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ventilation, and air conditioning. The latest load calculation procedures, indoor air quality procedures, and issues related to ozone depletion are covered.

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New to this edition is the inclusion of additional realistic, interactive and in-depth examples available on the book website (www.wiley.com/college/mcquisto)

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n) that enable students to simulate various scenarios to apply concepts from the text. Also integrated throughout the text are numerous worked examples

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*that clearly show
students how to apply
the concepts in
realistic scenarios. The
sixth edition has also
been revised to be more
accessible to students*

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comprehension. Suitable
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Junior/Senior/Graduate
course in HVAC taught in
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presents a balanced*

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mechanics, and heat
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manner suitable for use
in introductory thermal
sciences courses. By*

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*emphasizing the physics
and underlying physical
phenomena involved, the
text gives students
practical examples that
allow development of an
understanding of the*

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*theoretical
underpinnings of thermal
sciences. All the
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retained in this edition
while new ones are*

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*added. THIS EDITION
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on Power and
Refrigeration Cycles The
new Chapter 9 exposes
students to the
foundations of power*

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*generation and
refrigeration in a well-
ordered and compact
manner. An Early
Introduction to the
First Law of
Thermodynamics (Chapter*

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3) This chapter establishes a general understanding of energy, mechanisms of energy transfer, and the concept of energy balance, thermo-

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*economics, and
conversion efficiency.
Learning Objectives Each
chapter begins with an
overview of the material
to be covered and
chapter-specific*

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*learning objectives to
introduce the material
and to set goals.*

*Developing Physical
Intuition A special
effort is made to help
students develop an*

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*intuitive feel for
underlying physical
mechanisms of natural
phenomena and to gain a
mastery of solving
practical problems that
an engineer is likely to*

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face in the real world.

New Problems A large number of problems in the text are modified and many problems are replaced by new ones. Some of the solved

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*examples are also
replaced by new ones.
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the line artwork in the
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problems and solutions
from the textbook, as
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*Approach based on
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engineering newsletter,
superseding an earlier
publication of that name.
Drawing from the best of
the widely dispersed
literature in the field
and the author's vast

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installation, and
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refrigeration systems.
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changes caused by the
conversion from CFCs to
non-ozone-depleting
refrigerants and by the
development of

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microprocessors and new
secondary coolants,
Industrial Refrigeration
Handbook also examines
multistage systems;
compressors, evaporators,
and condensers; piping,

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vessels, valves and
refrigerant controls;
liquid recirculation;
refrigeration load
calculations;
refrigeration and freezing
of food; and safety

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procedures. Offering a rare compilation of thermodynamic data on the most-used industrial refrigerants, the Handbook is a mother lode of vital information and guidance

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for every practitioner in
the field.

Refrigeration and Air
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Energy and the Environment
Includes Part 1, Number 2:
Books and Pamphlets,

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Including Serials and
Contributions to
Periodicals (July -
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Heating and Cooling of
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Efficient Design, Third Edition is structured to provide a rigorous and comprehensive technical foundation and coverage to all the various elements inherent in the design of

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energy efficient and green buildings. Along with numerous new and revised examples, design case studies, and homework problems, the third edition includes the HCB

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software along with its extensive website material, which contains a wealth of data to support design analysis and planning. Based around current codes and

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standards, the Third Edition explores the latest technologies that are central to design and operation of today's buildings. It serves as an up-to-date technical

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resource for future
designers, practitioners,
and researchers wishing to
acquire a firm scientific
foundation for improving
the design and performance
of buildings and the

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comfort of their occupants. For engineering and architecture students in undergraduate/graduate classes, this comprehensive textbook: The proposed is written as

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a senior undergraduate or the first-year graduate textbook, covering modern thermal devices such as heat sinks, thermoelectric generators and coolers, heat pipes, and heat

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exchangers as design components in larger systems. These devices are becoming increasingly important and fundamental in thermal design across such diverse areas as

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microelectronic cooling, green or thermal energy conversion, and thermal control and management in space, etc. However, there is no textbook available covering this range of

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topics. The proposed book may be used as a capstone design course after the fundamental courses such as thermodynamics, fluid mechanics, and heat transfer. The underlying

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concepts in this book cover the, 1) understanding of the physical mechanisms of the thermal devices with the essential formulas and detailed derivations, and

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2) designing the thermal devices in conjunction with mathematical modeling, graphical optimization, and occasionally computational-fluid-dynamic (CFD)

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simulation. Important design examples are developed using the commercial software, MathCAD, which allows the students to easily reach the graphical solutions

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even with highly detailed processes. In other words, the design concept is embodied through the example problems. The graphical presentation generally provides

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designers or students with the rich and flexible solutions toward achieving the optimal design. A solutions manual will be provided.

EB00K: Fundamentals of

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Thermal-Fluid Sciences (SI
units)

A - Airports

1958: July-December

Refrigeration Engineering

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Handbook - - Refrigeration

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This textbook provides a concise, systematic treatment of essential theories and practical aspects of refrigeration and air-conditioning systems. It is designed for students pursuing courses in mechanical engineering both at diploma and

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degree level with a view to equipping them with a fundamental background necessary to understand the latest methodologies used for the design of refrigeration and air-conditioning systems. After reviewing the physical principles, the text focuses on the

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refrigeration cycles commonly used in air-conditioning applications in tropical climates. The subject of psychrometry for analysing the various thermodynamic processes in air conditioning is particularly dealt with in considerable detail. The

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practical design problems require comprehensive use of tables and charts prepared by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE). This text incorporates such tables and charts so that the

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students are exposed to solving real-life design problems with the help of ASHRAE Tables. Finally, the book highlights the features, characteristics and selection criteria of hardware including the control equipment. It also provides the readers with the big

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picture in respect of the latest developments such as thermal storage air conditioning, desiccant cooling, chilled ceiling cooling, Indoor Air Quality (IAQ) and thermal comfort. Besides the students, the book would be immensely useful to practising

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engineers as a ready reference.

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and chemists with vital information, data, and insights. Thoroughly revised to reflect the latest technological advances and processes, Perry's Chemical Engineers' Handbook, Ninth Edition, provides unsurpassed coverage of every aspect

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