

Refrigeration And Air Conditioning By Rk Rajput

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Engineering Materials and Metallurgy - RK Rajput 2006

This treatise on Engineering Materials and Metallurgy contains comprehensive treatment of the matter in simple, lucid and direct language

and envelopes a large number of figures which reinforce the text in the most efficient and effective way. The book comprise five chapters (excluding basic concepts) in all and fully and exhaustively covers the syllabus in the

above mentioned subject of 4th.Semester
Mechanical,Production,Automobile Engineering
and 2nd semester Mechanical disciplines of Anna
University.

Thermal Engineering - R. K. Rajput 2010-04

A Text Book of Automobile Engineering - R.
K. Rajput 2008

Power Plant Engineering - A. K. Raja 2006

This Text-Cum-Reference Book Has Been
Written To Meet The Manifold Requirement And
Achievement Of The Students And Researchers.
The Objective Of This Book Is To Discuss,
Analyses And Design The Various Power Plant
Systems Serving The Society At Present And Will
Serve In Coming Decades India In Particular
And The World In General. The Issues Related
To Energy With Stress And Environment Up To
Some Extent And Finally Find Ways To
Implement The Outcome.Salient Features#
Utilization Of Non-Conventional Energy

refri gerati on-and-ai r-condi ti oni ng-by-rk-raj put

Resources# Includes Green House Effect# Gives
Latest Information S In Power Plant
Engineering# Include Large Number Of
Problems Of Both Indian And Foreign
Universities# Rich Contents, Lucid Manner
Refrigeration And Air-Conditioning - R. K.
Rajput 2009

**Basic Electrical and Electronics
Engineering** - R.K. Rajput 2007

El ement s of M echanical . Engi neeri ng (PTU
Sadhu Singh 2009

The present book on Elements of Mechanical
Engineering is meant for the engineering
students of all branches at their first year level.It
covers the new syllabus of panjab Technical
University,Jalandhar.However,it shall be useful
to students of other Universities also.The book
covers the basic principles of
Thermodynamics,zeroth law of Thermodynamics
and the concept of temperature in the first

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chapter.

Engineering Materials - RK Rajput 2008

The book has been thoroughly revised. Several new articles have been added, specifically, in chapters in mortar, Concrete, Paint: Varnishes, Distempers and Antitermite treatment to make the book still more comprehensive and a useful unit for the students preparing for the examination in the subject.

Electrical Engineering - R.K. Rajput 2007

Textbook of Refrigeration and Air Conditioning - RS Khurmi | JK Gupta 2008

The Multicolor 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 reality, and to bridge the gap between theory and Practice.

Engineering Practical Book - Vol-1 - Farrukh Hafeez 2016-04-24

The importance of practical training in

engineering education, as emphasized by the AICTE, has motivated the authors to compile the work of various engineering laboratories into a systematic Practical laboratory book. The manual is written in a simple language and lucid style. It is hoped that students will understand the manual without any difficulty and perform the experiments.

Basic Refrigeration and Air Conditioning - P. N. Ananthanarayanan 2005

Refrigeration and Air Conditioning - Ramesh Chandra Arora 2010-01-30

The text begins by reviewing, in a simple and precise manner, the physical principles of three pillars of Refrigeration and Air Conditioning, namely thermodynamics, heat transfer, and fluid mechanics. Following an overview of the history of refrigeration, subsequent chapters provide exhaustive coverage of the principles, applications and design of several types of refrigeration systems and their associated

components such as compressors, condensers, evaporators, and expansion devices. Refrigerants too, are studied elaboratively in an exclusive chapter. The second part of the book, beginning with the historical background of air conditioning in Chapter 15, discusses the subject of psychrometrics being at the heart of understanding the design and implementation of air conditioning processes and systems, which are subsequently dealt with in Chapters 16 to 23. It also explains the design practices followed for cooling and heating load calculations. Each chapter contains several worked-out examples that clarify the material discussed and illustrate the use of basic principles in engineering applications. Each chapter also ends with a set of few review questions to serve as revision of the material learned.

Objective Type Questions in Mechanical Engineering - Singh V.P./ Pratap Raveesh & Akhai Shalom

Useful book for GATE / IES / UPSC / PSUs and

other competitive examinations. Latest objective type questions with answers. About 5000 objective type questions

HVAC Licensing Study Guide, Second Edition - Rex Miller 2012-10-08

Ace the Major HVAC Licensing Exams!

Featuring more than 800 practice questions and answers, HVAC Licensing Study Guide, Second Edition provides everything you need to prepare for and pass the major HVAC licensing exams on the first try. This practical, up-to-date resource is filled with essential calculations, troubleshooting tips for the job site, hundreds of detailed illustrations, and information on current codes and standards. Thoroughly revised to cover the latest equipment and techniques, this career-building guide helps you: Master the material most likely to appear on the ARI, NATE, ICE, RSES, and HVAC licensing exams Improve your test-taking ability with 800+ true-false and multiple-choice questions and answers Learn about the latest refrigerant usage and

regulations Keep up with the most recent codes and standards Acquire the confidence, skills, and knowledge needed to pass your exam Covers key HVAC topics, including: Heat sources Heating systems Boilers, burners, and burner systems Piping systems Ductwork sizing Refrigerants Cooling and distribution systems Refrigeration equipment and processes Filters and air flow Maintenance, servicing, and safety Humidification, dehumidification, and psychrometrics EPA-refrigerant reclaimers Heating circuits Safety on the job Trade associations and codes

REFRIGERATION AND AIR CONDITIONING - S. N. SAPALI 2013-11-13

This book is designed for 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. The basic principles of cryogenic systems and applications of cryogenic

gases and air liquefaction systems have also been dealt with. The Second Edition incorporates: (a) New sections on vortex tube, solar refrigeration and magnetic refrigeration, in Chapter 2. (b) Additional solved examples on vapour compression refrigeration system using the R134a refrigerant, in Chapter 4. (c) New sections on duct arrangement systems and air distribution systems, in Chapter 15. (d) A new Chapter 17 on Food Preservation.

Hydraulics and Pneumatics Controls - Shanmuga Sundaram 2006

For B.E./B.Tech. students of Anna and Other Technical Universities of India

Theory of Machines - RS Khurmi | JK Gupta 2008

While writing the book, we have continuously kept in mind the examination requirements of the students preparing for U.P.S.C.(Engg. Services) and A.M.I.E.(I) examinations. In order to make this volume more useful for them, complete solutions of their examination papers up to 1975

have also been included. Every care has been taken to make this treatise as self-explanatory as possible. The subject matter has been amply illustrated by incorporating a good number of solved, unsolved and well graded examples of almost every variety.

International Conference on Advances in Power Generation from Renewable Energy Sources (APGRES-2020) - Editor in Chief Dr. D. Dhalin Editor Dr. Veeresh Fuskele Dr. Shiv Lal Dr. B. L. Gupta 2020-03-04

International Conference on Advances in Power Generation from Renewable Energy Sources (APGRES-2020)

Thermal Engineering R.K. Rajput 2005

Power System Engineering R. K. Rajput 2006

Applied Thermodynamics - R. K. Rajput 2009-12

Utilisation of Electrical Power - Er. R. K.

Rajput 2006

**Refrigeration And Air-Conditioning
(Polytechnic) - R. K. Rajput 2009-01-01**

Ice-Houses- Alireza Dehghani-Sanij 2021-05-06
Ice-Houses: Energy, Architecture and Sustainability presents new and novel technologies and approaches surrounding daily and seasonal ice storage, along with discussions on passive cooling and natural technologies using different methods, including heat pumps. The book covers different aspects of ice-houses and cold energy production, storage and utilization. By addressing various issues connected to the technology and structure of traditional ice-houses and natural and artificial ice making, this reference looks at new technological approaches for the reduction of electrical energy consumption in buildings. Users will find this to be a comprehensive overview of ice house storage that includes

worked examples and global case studies. It is an essential resource for researchers and engineers looking to advance their understanding of this method of thermal storage. Includes worked examples which calculate and determine the amounts of different parameters to help better understand the problem-solving process Provides a comprehensive literature review on the history and architecture of ice-houses, along with different ice production and storage methods Contains recent developments related to cold energy production and storage through ice making to reduce electricity demand
REFRIGERATION TABLES WITH CHART - R S KHURMI

□Refrigeration Tables with Charts□ is for undergraduate students of Mechanical and Electrical Engineering. The book comprises several tables and charts containing the properties of refrigerants, and various other concepts related to refrigeration.

Basic Mechanical Engineering - Rajput 2002

Mechanical Engineering - R.K. Rajput 2006-12

A Textbook of Refrigeration and Air-conditioning - R.K. Rajput 2012

Agro-Product Processing Technology - B K Bala
2020-04-02

Global food security is a challenging issue. Meeting the food and nutritional requirements of the world has become an issue for national policymakers and is of public concern. There is a need to enhance agricultural production, as well as, to reduce postharvest loss, improve the quality of processed products, and add value to products to make more quality food available. Agro-product processing technology plays a major role to reduce post-harvest losses, improve the quality of processed products, and add value to the products. It also generates employment and ultimately contributes to food

security. Features: Covers a wide spectrum of agro-product processing technology Explains the principles and practices of agro-product processing technology with many worked examples to quickly teach the basic principles through examples Contains examples from different operations on current problems to show the wide applications of the principles of agro-product technology Includes process control and emerging technologies in agro-product processing such as energy and exergy analysis, neural network modeling, and CFD modeling This book deals with physical and thermal properties, cleaning and sorting, drying and storage, parboiling and milling, by-product utilization, heating and cooling, refrigerated cooling, and cold storage. The most unique feature of this book is the machine vision for grading fruits, process control and materials handling, and emerging technologies such as neural network, finite element, CFD, and genetic algorithm.

A Textbook of Engineering Thermodynamics

- R. K. Rajput 2010-07

Air Conditioning and Refrigeration - Rex

Miller 2006-04-20

BE AN AC AND REFRIGERATION ACE- NO MATTER WHAT YOUR PRESENT LEVEL OF SKILL! Air Conditioning and Refrigeration helps you understand today's cooling and climate control systems-so expertly that you can use it as the foundation for a career! Clear instructions-with over 800 photographs and illustrations-offer step-by-step guidance to learning the trade for students, professionals, and homeowners who want to do their own installations or repairs. LEARN WITH THE PROS Written by experienced teachers Rex and Mark R. Miller-whose Carpentry & Construction has been a building classic for more than 25 years-Air Conditioning and Refrigeration has all the task-simplifying details you need for any project. In the popular Miller style, this complete and

current guide helps: New and student technicians. Build on-the-job skills and the knowledge needed to succeed in a fast-growing, lucrative field. AC and refrigeration pros. Refine and update skills, with full information on the latest cost-cutting technologies, refrigerants, and tools. Do-it-yourselfers and homeowners. Make expert equipment and tool choices and achieve superior results, economically. Service personnel, technicians, contractors, engineers, and facility managers. Find up-to-date information on codes, standards, safety tips, and methods. Anyone who needs clear, illustrated, step-by-step instructions for efficient, cost-effective, and current methods in choosing, installing, maintaining, troubleshooting, servicing, and repairing today's AC and refrigeration equipment.

Internal Combustion Engines R.K. Rajput
2005-12

Engineering Thermodynamics - R. K. Rajput

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guest

2010

Mechanical Engineering

A Textbook of Manufacturing Technology -

R. K. Rajput 2007

Air Conditioning System Design - Roger Legg

2017-06-15

Air Conditioning System Design summarizes essential theory and then explains how the latest air conditioning technology operates. Load calculations, energy efficiency, and selection of technology are all explained in the context of air conditioning as a system, helping the reader fully consider the implications of design decisions. Whether users need to figure out how to apply their mechanical engineering degree to an air conditioning design task or simply want to find out more about air conditioning technology for a research project, this book provides a perfect guide. Approaches air conditioning as a system, not just a collection of machines Covers the essential theory on fluid flow and the latest

in A/C technology in a very readable and easy-to-use style Explains the significance of factors, such as climate and thermal comfort as A/C design considerations Addresses design using a range of air conditioning technologies, such as evaporative cooling, VRF systems, psychromatic software, and dessicant dehumidification

Novel Dairy Processing Technologies - Megh

R. Goyal 2018-03-14

Milk is nature's perfect food (lacking only iron, copper, and vitamin C) and is highly recommended by nutritionists for building healthy bodies. New technologies have emerged in the processing of milk. This new volume focuses on the processing of milk by novel techniques, emphasizing the conservation of energy and effective methods. This book is divided four parts that cover: applications of novel processing technologies in the dairy industry novel drying techniques in the dairy industry management systems and hurdles in the dairy industry energy conservation and

opportunities in the dairy industry This book presents new information on the technology of ohmic heating for milk pasteurization. It goes on to provide an overview of the commercial thermal, non-thermal technologies, and hybrid technologies for milk pasteurization. There are non-thermal technologies such as pulse light, irradiation, ultra violet treatment, etc., that can be used in combination with other technologies for the processing of milk and milk products. This hybrid technology can provide multiple benefits, such extended shelf life, reduced energy costs, reduced heat treatment, and better organoleptic and sensory properties. The book also describes the different aspects of food safety management used in dairy processing. The book also looks at recent advances in microwave-assisted thermal processing of milk and the effects of microwaves on microbiological, physicochemical, and organoleptic properties of processed milk and milk products. Technological advances in value

addition and standardization of the products have been reported, but well-established processes for mechanized production are recommended in the book for a uniform quality nutritious product produced under hygienic conditions. This new volume will be of interest to faculty, researchers, postgraduate students, researchers, as well as engineers in the dairy industry.

Refrigeration and Air Conditioning -

Manohar Prasad 2011-03

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 Efficiencyemphasised. * 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.

Heat and Mass Transfer : A Textbook for the Students Preparing for B.E., B.Tech., B.Sc.

Engg., AMIE, UPSC (Engg. Services) and GATE Examinations - R. K. Rajput 2007

The entire book has been thoroughly revised and a large number of solved examples under heading Additional/Typical Worked Examples (Questions selected from various Universities and Competitive Examinations) have been added at the end of the book.

Elements of Mechanical Engineering B.K. Rajput 2005