



DIMENSIONAL ACADEMY OF ENGINEERING

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DHVAC 01. FUNDAMENTALS OF HVACS

Unit 1

Overview of Industry & Scope for HVAC -Volume of Industries (TR) & Total Market (Revenue/Turnover) -No Of MNC Role of HVAC Engineer in various Industries-Comfort Applications -Pharmaceutical industry -Plastic Processing Industry -Cold Storage(Food) –Hospitals-Chemical plants etc

Unit 2

Basic concepts of Thermodynamics, Heat Transfer, Fluid mechanics Related to Refrigeration and Air conditioning. - Basic of HVAC - Pressure-Temp. Relation - Basic Refrigeration(VCC) M –

Unit 3

Vaporization process, Compression Process, Condensing process, Throttling Process. -Net Refrigeration Effect. -Coeff. Of performance (COP) -Superheat and Sub cooling and its impact on COP. -Examples on Pressure Enthalpy Charts.

Unit 4

Detailed Study of components of Vapour Compression cycle - Throttling devices. - Evaporators. - Compressors. –Condensers

Unit 5

Psychometrics - Study of Moist air behavior under various conditions.DBT & WBT, Relative Humidity, Specific Humidity, Dew Point, specific volume, ADP and Enthalpy. - Study of Psychrometric Charts.Plotting the Air Conditioning Processes on Psychrometric Chart. -Sling Psychrometer - Indoor & Outdoor design conditions - Thermal Comfort Conditions -Indoor Air Quality

TEXT BOOK

ASHRAE Hand book on Refrigeration & Air conditioning, Published by ISHRAE, Bangalore, 1998.

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**Air-Conditioning and Refrigeration
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Educational Institutions Offering Courses in Air-conditioning & Refrigeration Air-Conditioning and Refrigeration Institute. Education Committee,1982 **Textbook of Refrigeration and Air Conditioning** RS Khurmi | JK Gupta,2006-12 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 **REFRIGERATION AND AIR CONDITIONING Course Code 22660** Vinod Thombre-Patil,2020

REFRIGERATION AND AIR CONDITIONING Vinod Thombre-Patil,2020-02 Air Conditioning and Refrigeration Refrigeration and Air Conditioning Institute, Chicago,1938 Refrigeration And Air Conditioning M.L. Anand,2002 This book is meant for certificate diploma and undergraduate students studying the subject of Refrigeration Air Conditioning It covers the syllabus of most of the I T Is Polytechnics Engineering College in India Each chapter end with sufficient no of solved and unsolved numerical problems The teachers as well as the students will find the book extremely useful Content Highlights Preface Basic Concepts Refrigerants Thermal Insulation Lubricators and Driers Cryogenics Methods of Refrigerations Air or Gas Refrigeration Vapour Compression System Vapour Absorption System Special Nonconventional Refrigeration Systems Expansion Metering or Controlling Devices Evaporators Condensers Cooling Towers Liquid Receivers Compressors Electric Motors Introduction to Air Conditioning Components Air Distribution Refrigeration Air Conditioning Controls Food Processing and Preservation Tools Equipment used in Refrigeration and Air Conditioning Miscellaneous Topics Basic Acoustics and Noise Control Short Answer Questions Appendices **Refrigeration And Air-Conditioning (Polytechnic)** R. K. Rajput,2009-01-01 *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 thermo dynamics 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 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 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 Air Conditioning and Refrigeration: Refrigeration. 5 v Refrigeration and Air Conditioning Institute, Chicago,

This is Your Passbook For-- Air Conditioning, Heating & Refrigeration Mechanic National Learning Corporation,2014 Frequently reprinted with the same ISBN but slightly differing bibliographical details *Royal refrigeration and air-conditioning mechanic* M. Singh,1990 *Air Conditioning and Refrigeration* ,2000 This CD ROM examines the refrigeration cycle explaining how to each component works and teaching how to identify and repair common problems

Basic Refrigeration and Air Conditioning P. N. Ananthanarayanan,1996 This text looks at refrigeration and air conditioning looking at the different methods and systems of cooling **Air Conditioning and Refrigeration Engineering** ,2023 Refrigeration and Air Conditioning C. P. Arora,2012 Refrigeration and Air Conditioning J. P. Mittal,Inderjit Kaur,Ramesh Chand Sharma,2015 Refrigeration And Air-Conditioning R. K. Rajput,2009 *Refrigeration and Air Conditioning* Prasad Manohar,1999 Air Conditioning and Refrigeration: Heating. 2 v Refrigeration and Air Conditioning Institute, Chicago,

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
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