Paper / Subject Code: 89423 / Heating, Ventilation, Air Conditioning and Refrigeration

1T01436 - T.E. (Mechanical) Engineering)(SEM-VI)(Choice Base Credit Grading System.) ((R-20-21) (C Scheme) / 89423 - Heating. Ventilation, Air Conditioning and Refrigeration QP CODE: 10015040 DATE: 13/12/2022 (3 Hours)

HO:	

- Question no. 1 is compulsory.
- Attempt any three questions out of the remaining five questions.
- Clearly mention the assumptions made if any.
- 4) Use of Refrigerant table, P-h chart, Friction chart, Psychrometric chart and Steam table is permitted.
- O.1 Answer any Four of the following:

- a) Explain Standard VCR cycle with schematic, P-h & T-S diagrams.
- b) Explain the terms SHF, RSHF, GSHF and ERSHF.
- c) Define refrigerant and classify refrigerant giving examples of each.
- d) Define By-Pass Factor of a coil. Express it for heating & cooling coil. Also define efficiency of coil.
- e) Write short note on Thermal Comfort
- Define: Specific Humidity, Relative Humidity, DBT, WBT & DPT

Q.2 a) A boot strap cooling system of 10 TR Capacity is used in an aeroplane. The ambient air temperature and pressure are 20 °C & 0.85 bar respectively. The pressure of air increases from 0.85 bar to 1 bar due to ramming action of air. The pressure of air discharged from the main compressor is 3 bar. The discharge pressure of air from the auxiliary compressor is 4 bar. The isentropic efficiency of each compressor is 80%, while that of turbine is 85%. The heat exchanger effectiveness for both the heat exchanger is 60%. Assuming ramming action to be isentropic, the required cabin pressure of 0.9 bar and temperature of air leaving the cabin not more than 20 °C, Find: Power required to operate the system, COP of system. 12

b) Explain following Psychrometric Processes with neat sketch.

008

(i) Heating & Humidification. (ii) Cooling & Dehumidification. (iii) Sensible Heating

[Total Marks 80]

(iv) Sensible Cooling

Q.3 a) A Vapour Compression Refrigeration System using R-12 works between -25°C and 40°C as evaporator & condenser temperature respectively. Using P-h chart, Determine;

- I. COP.
- Mass of Refrigerant per TR.
- Piston Displacement per TR using Volumetric Efficiency = 83%.
- Heat Rejected in the Condenser per TR.
- Ideal COP.

12

0.80

b) Enlist the types of Air Cooling Systems. Explain Simple Air Cooling System with T-S diagram, processes involved in the cycle & application.

150.40

Page 1 of 2

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Puja Mehta

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The Complete Book of Colleges, 2012 Edition Princeton Review (Firm), 2011-08-15 Presents a comprehensive guide to 1 571 colleges and universities and includes information on academic programs admissions requirements tuition costs housing financial aid campus life organizations athletic programs and student services Wills' Mineral Processing Technology Barry A. Wills, James Finch, 2015-09-01 Wills Mineral Processing Technology An Introduction to the Practical Aspects of Ore Treatment and Mineral Recovery has been the definitive reference for the mineral processing industry for over thirty years This industry standard reference provides practicing engineers and students of mineral processing metallurgy and mining with practical information on all the common techniques used in modern processing installations Each chapter is dedicated to a major processing procedure from underlying principles and technologies to the latest developments in strategies and equipment for processing increasingly complex refractory ores The eighth edition of this classic reference enhances coverage of practical applications via the inclusion of new material focused on meeting the pressing demand for ever greater operational efficiency while addressing the pivotal challenges of waste disposal and environmental remediation Advances in automated mineralogy and analysis and high pressure grinding rolls are given dedicated coverage. The new edition also contains more detailed discussions of comminution efficiency classification modeling flocculation reagents liquid solid separations and beneficiation of phosphate and industrial materials Finally the addition of new examples and solved problems further facilitates the book s pedagogical role in the classroom Connects fundamentals with practical applications to benefit students and practitioners alike Ensures relevance internationally with new material and updates from renowned authorities in the UK Australia and Canada Introduces the latest technologies and incorporates environmental issues to place the subject of mineral processing in a contemporary context addressing concerns of sustainability and cost effectiveness Provides new case studies examples and figures to bring a fresh perspective to the field AsiaSim 2012 - Part III Tianyuan Xiao, Lin Zhang, Minrui Fei, 2012-10-06 The Three Volume Set CCIS 323 324 325 AsiaSim 2012 together with the Two Volume Set CCIS 326 327 ICSC 2012 constitutes the refereed proceedings of the Asia Simulation Conference AsiaSim 2012 and the International Conference on System Simulation ICSC 2012 held in Shanghai China in October 2012 The 267 revised full papers presented were carefully reviewed and selected from 906 submissions. The papers are organized in topical sections on modeling theory and technology modeling and simulation technology on synthesized environment and virtual reality environment pervasive computing and simulation technology embedded computing and simulation technology verification validation and accreditation technology networked modeling and simulation technology modeling and simulation technology of continuous system discrete system hybrid system and intelligent system high performance computing and simulation technology cloud simulation technology modeling and simulation technology of complex system and open complex huge system simulation based acquisition and virtual prototyping engineering technology simulator simulation language and

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topics such as extractive metallurgy powder metallurgy and processing physical metallurgy production engineering corrosion engineering thermal processing metalworking welding iron and steelmaking heat treating rolling casting hot and cold forming surface finishing and coating crystallography metallography computational metallurgy metal matrix composites intermetallics nano and micro structured metals and alloys nano and micro alloying effects special steels and mining A valuable reference for materials scientists and engineers chemists manufacturers miners researchers and students this must have encyclopedia Provides extensive coverage of properties and recommended practices Includes a wealth of helpful charts nomograms and figures Contains cross referencing for quick and easy search Each entry is written by a subject matter expert and reviewed by an international panel of renowned researchers from academia government and industry Also Available Online This Taylor E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co Scientific and Technical Aerospace Reports ,1995 Blended Learning in Grades 4-12 Catlin R. Tucker, 2012-06-13 Use technology to focus on your students You ve heard about blended learning which mixes online learning with traditional classroom instruction You have the support of your principal the backing of your district and you are ready to take the leap Now what In this step by step guide teacher and education blogger Catlin Tucker outlines the process for integrating online discussion with face to face instruction in a way that is aligned to the Common Core State Standards works for your students and allows you to focus your energy where it is most needed Catlin Tucker will teach you how to Use the online environment to increase engagement and drive higher order thinking Design dynamic online discussion questions Create a safe space online Prepare students for high stakes exams without sacrificing class time Assess online work Personalize learning and differentiate lessons Move toward flipped instruction which shifts the focus of class time from teacher to student With concrete strategies ready to use resources and sample rubrics grounded in the Common Core State Standards Blended Learning in Grades 4 12 is the ideal tool for the busy 21st century teacher looking to create a student centered classroom The Science of Armour Materials Ian Crouch, 2016-09-21 The Science of Armour Materials comprehensively covers the range of armor materials from steels and light alloys through glasses and ceramics to fibers textiles and protective apparel The book also discusses aspects of analytical and numerical modeling as well as laboratory based high strain rate testing and ballistic testing methodologies Each chapter is written from an international perspective including reviews of the current global literature and incorporates case studies that focus upon real life applications research outcomes and lessons learned The threat spectrum is restricted to small arms ammunition high velocity fragments and stab and spike attacks as well as blast loadings Features input from an editor who is an expert in his field Dr Ian Crouch the author of over 80 publications in his field with three patents to his name Provides systematic and comprehensive coverage of armor materials modeling and testing Offers a cross disciplinary approach that brings together expertise in materials science and defense engineering Discusses aspects of analytical and numerical modeling as well as laboratory based high strain rate

testing and ballistic testing methodologies Industrial Instrumentation and Control Systems Prasad Yarlagadda, Yun Hae Kim, 2012-12-13 Selected peer reviewed papers from the 2012 International Conference on Measurement Instrumentation and Automation ICMIA 2012 September 15 16 2012 Guangzhou China 8th International Conference on Compressors and their Systems City University London, 2013-12-19 This book contains the papers from the 2013 International Conference on Compressors and Their Systems held from 9 10 September at City University London The long running conference series is the ultimate global forum for reviewing the latest developments and novel approaches in compressor research High quality technical papers are sourced from around the globe covering technology development operation maintenance and reliability safety and environmental impact energy efficiency and carbon footprint system integration and behaviour upgrades and refurbishment design and manufacture education and professional development All the papers are previously unpublished and constitute leading edge research Presents leading edge developments in compressor technology Gives the latest prediction and modelling techniques Details the new technology and machinery The Teak Genome Yasodha Ramasamy, Esteban Galeano, Thwe Thwe Win, 2021-09-01 This book is the first comprehensive compilation of knowledge on teak biology ecology clonal forestry clonal registration seed biology and seed orchards The teak genetic diversity the sequenced genome and transcriptomes from different tissues and their implications in modern tree improvement and material selection have been comprehensively discussed The book also presents a narrative on wood characterization wood chemistry modern silviculture growth and modelling and economics of this valued tropical species Altogether the book contains about 200 pages over 16 chapters authored by globally reputed experts on the relevant field in this tropical tree This book is useful to students teachers and scientists and wood based industries are interested in forestry biology seed orchards breeding genetic diversity molecular genetics in vitro culture wood chemistry and structural and functional genomics Advances in Estimation, Navigation, and Spacecraft Control Daniel Choukroun, Yaakov Oshman, Julie Thienel, Moshe Idan, 2015-01-02 This book presents selected papers of the Itzhack Y Bar Itzhack Memorial Sympo sium on Estimation Navigation and Spacecraft Control Itzhack Y Bar Itzhack professor Emeritus of Aerospace Engineering at the Technion Israel Institute of Technology was a prominent and world renowned member of the applied estimation navigation and spacecraft attitude determination communities He touched the lives of many He had a love for life an incredible sense of humor and wisdom that he shared freely with everyone he met To honor Professor Bar Itzhack's memory as well as his numerous seminal professional achievements an international symposium was held in Haifa Israel on October 14 17 2012 under the auspices of the Faculty of Aerospace Engineering at the Technion and the Israeli Association for Automatic Control The book contains 27 selected revised and edited contributed chapters written by eminent international experts The book is organized in three parts 1 Estimation 2 Navigation and 3 Spacecraft Guidance Navigation and Control The volume was prepared as a reference for research scientists and practicing engineers from academy and industry in the fields of

estimation navigation and spacecraft GN C Advanced Manufacturing Processes II Volodymyr Tonkonogyi, Vitalii Ivanov, Justyna Trojanowska, Gennadii Oborskyi, Anatolii Grabchenko, Ivan Pavlenko, Milan Edl, Ivan Kuric, Predrag Dasic, 2021-02-04 This book offers a timely yet comprehensive snapshot of innovative research and developments at the interface between manufacturing materials and mechanical engineering and quality assurance It covers a wide range of manufacturing processes such as cutting grinding assembly and coatings including ultrasonic treatment molding radial isostatic compression ionic plasma deposition volumetric vibration treatment and wear resistance It also highlights the advantages of augmented reality RFID technology reverse engineering optimization heat and mass transfer energy management quality inspection and environmental impact Based on selected papers presented at the Grabchenko s International Conference on Advanced Manufacturing Processes InterPartner 2020 held in Odessa Ukraine on September 8 11 2020 this book offers a timely overview and extensive information on trends and technologies in production planning design engineering advanced materials machining processes process engineering and quality assurance It is also intended to facilitate communication and collaboration between different groups working on similar topics and offer a bridge between academic and industrial researchers Women in Science: Materials Maria Chiara Bignozzi, Patricia Krawczak, Emilia Morallon, Ming Xu, Jacqueline Anne Johnson, 2021-07-01 The Frontiers in Materials Editorial Office team are delighted to present the inaugural Women in Science Materials article collection showcasing the high quality work of women in science across the breadth of materials science and engineering All researchers featured within this collection were individually nominated by the Topic Editors in recognition of their status as leading academics who have great potential to influence the future directions of their respective fields. The work presented here highlights the diversity of research performed across the entire breadth of the materials science and engineering field and presents advances in theory experimentation and methodology with applications for solving compelling problems This Editorial features the corresponding author s of each paper published within this important collection ordered by section alphabetically highlighting them as the great researchers of the future The Frontiers in Materials Editorial Office team would like to thank each researcher who contributed their work to this collection We would also like to personally thank the Topic Editors for their exemplary leadership of this article collection their strong support and passion for this important community driven collection has ensured its success and global impact Emily Young Journal Development Manager **Spatial Modelling and Failure Analysis of Natural and** Engineering Disasters through Data-based Methods Faming Huang, Jinsong Huang, Wei Chen, Jinquan Liu, 2022-10-07 Lea's Chemistry of Cement and Concrete Peter Hewlett, Martin Liska, 2019-03-08 Lea's Chemistry of Cement and Concrete Fifth Edition examines the suitability and durability of different types of cements and concretes their manufacturing techniques and the role that aggregates and additives play in achieving concrete s full potential of delivering a high quality long lasting competitive and sustainable product

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Table of Contents Mechanical Technology 2012grade 11 Exam Paper

- 1. Understanding the eBook Mechanical Technology 2012grade 11 Exam Paper
 - The Rise of Digital Reading Mechanical Technology 2012grade 11 Exam Paper
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Mechanical Technology 2012grade 11 Exam Paper
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mechanical Technology 2012grade 11 Exam Paper
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mechanical Technology 2012grade 11 Exam Paper
 - Personalized Recommendations
 - Mechanical Technology 2012grade 11 Exam Paper User Reviews and Ratings
 - Mechanical Technology 2012grade 11 Exam Paper and Bestseller Lists

- 5. Accessing Mechanical Technology 2012grade 11 Exam Paper Free and Paid eBooks
 - Mechanical Technology 2012grade 11 Exam Paper Public Domain eBooks
 - Mechanical Technology 2012grade 11 Exam Paper eBook Subscription Services
 - Mechanical Technology 2012grade 11 Exam Paper Budget-Friendly Options
- 6. Navigating Mechanical Technology 2012grade 11 Exam Paper eBook Formats
 - o ePub, PDF, MOBI, and More
 - Mechanical Technology 2012grade 11 Exam Paper Compatibility with Devices
 - Mechanical Technology 2012grade 11 Exam Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanical Technology 2012grade 11 Exam Paper
 - Highlighting and Note-Taking Mechanical Technology 2012grade 11 Exam Paper
 - Interactive Elements Mechanical Technology 2012grade 11 Exam Paper
- 8. Staying Engaged with Mechanical Technology 2012grade 11 Exam Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanical Technology 2012grade 11 Exam Paper
- 9. Balancing eBooks and Physical Books Mechanical Technology 2012grade 11 Exam Paper
 - ∘ Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanical Technology 2012grade 11 Exam Paper
- 10. Overcoming Reading Challenges
 - o Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mechanical Technology 2012grade 11 Exam Paper
 - Setting Reading Goals Mechanical Technology 2012grade 11 Exam Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mechanical Technology 2012grade 11 Exam Paper
 - Fact-Checking eBook Content of Mechanical Technology 2012grade 11 Exam Paper
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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