#### 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

0.8

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

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**SA Dillow** 

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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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