Thermodynamics

S.E.: Sem. III [MECH/AUTO]

Mumbai University Examination Paper: Dec. '18 Time: 3 Hrs.] [Marks: 80] N.B.: Question No. 1 is compulsory. (2) Attempt any THREE questions from question number 2 to 6. (3) Assume suitable data if required and state it clearly. (4) Use of Steam Table and Mollier chart is permitted. Solve the following (any Four) [20]

- (a) State first law of thermodynamics for closed system. State its limitations. (b) Explain heat engine, heat pump and refrigerator with the help of neat sketch. (c) Explain free air delivered and volumetric efficiency. Write their equations also. (d) Define: available energy, dead state and irreversibility.
 - (e) Explain working of Otto cycle with the help of PV and TS diagram. Write the equation for efficiency of the cycle. (f) Define types of steam and represent it on p-v diagram for water.
- 2. (a) 3 kg of air at a pressure of 150 kPa and temperature 360 K is compressed [12] polytropically to 750 kPa according to law PV1.25 = C. The gas is then cooled to initial temperature at constant pressure. The air is then expanded at constant temperature till it reaches original pressure of 150 kPa. Draw the cycle on p-V diagram and determine net work and heat transfer. (b) Prove that energy is property of the system. [8]
- (a) In a steady flow device, the inlet and outlet conditions are given below. [8] Determine the heat loss or gain by the system in kW. Fluid flow rate through the device is 2.1 kg/s and work output of the device is 750 kW.

Property	Inlet	Outlet
Pressure (bar)	10	8.93
Specific enthalpy (kJ/kg)	2827	2341
Velocity (m/s)	20	120
Elevation (m)	3.2	0.5

- (b) Explain Kelvin-Planck & Clausius statement with the help of sketch.
- [6] (c) A heat engine receives 1000 kW of heat at constant temperature of 280°C. F61 The heat is rejected at 5°C. The possible heats rejected are 840 kW, 492 kW and 300 kW. Classify the cycle into reversible, irreversible and impossible using Clausius Inequality theorem.
- (a) Define Critical Point and Triple point. Draw p-T diagram for water and show [6] these pints on it.
 - (b) Write four Maxwell relations. [4] [10]
 - (c) A house is maintained at a temperature of 20°C by means of a heat pump in winter by pumping heat from the atmosphere. Heat losses through the walls of the house are estimated at 0.65 kJ/K temperature different between inside of the house and outside atmosphere.

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Advances in Microwave-assisted Heterogeneous Catalysis Jianli Hu, Benjaram M Reddy, 2023-11-03 Historically the field of heterogeneous catalysis has focused on the design and optimisation of the catalytic materials However as these optimisations start to reach diminishing returns attention has turned to non conventional means for improving reaction conditions such as the use of ultrasound plasma electromagnetic heating and microwave heating Microwave assisted catalysis has been demonstrated to be useful in a wide range of applications including ammonia synthesis desulfurization and production of chemicals from biomass Advances in Microwave assisted Heterogeneous Catalysis begins with the basics of microwave heating and the role of microwaves in heterogeneous catalysis It goes on to cover the mechanisms of microwave specific reaction rate enhancement microwave assisted synthesis of porous nonporous and supported metal catalysts microwave augmented reactor technology and microwave induced catalysis The application of microwave assisted heterogeneous catalysis in various fields of energy conversion environmental remediation and bulk and specialty chemicals synthesis are also discussed making this a great reference for anyone involved in catalysis research Finance and Industry, 1995 Chemical Thermodynamics, III, 1974 **Thermodynamics Exam File Stuart** T. General Physics Multiple-Choice Questions Abdulaziz Aljalal ,Ibraheem Nasser McComas,1985-01-01 Khateeb-Ur-Rehman, 2011-09-13 This book is a collection of 954 multiple choice questions in waves thermodynamics, electricity and magnetism These questions have been given over couple of years to the students of General Physics II course Phys102 at King Fahd University of Petroleum and Minerals They are organized according to the sections of Phys102 textbook Fundamental of Physics by Halliday Resnick and Walker 6th edition This collection might be very helpful for students preparing for exams in Phys102 or similar courses We advise students strongly to study and understand the course material very well before attempting practicing some of these questions Instructors might also find this book a valuable source for questions that can be used in examples or tests The statistics provided with some of the questions might be very valuable in comparing performances **Chemical Thermodynamics and Statistical Aspects** Joseph J. Stephanos, Anthony W. Addison, 2023-06-27 Chemical Thermodynamics and Statistical Aspects Questions to Ask in Fundamentals and Principles covers a full range of topics in macroscopic and statistical thermodynamics Every step in the book is compiled with sharp and precise attention to detail Derivations cover fundamental relationships and reinforce and extend the knowledge gained form an earlier exposure to thermodynamics The book is filled with all kinds of physics processes a variety of quantum mechanics and calculus problems involving timely mathematical functions Special emphases is given to fundamental concepts and their chemical interpretations which are essential to understanding molecular formation and reaction mechanism This book will be a useful reference source for undergraduates and postgraduates taking courses in chemistry students in chemical engineering and those in the materials sciences It will also be of value to research

workers who would like an introduction to the essential principles of physical chemistry Includes detailed solutions with the necessary mathematical techniques provided for every problem Addresses problems incorporating a variety of types of chemical and physical data to illustrate the interdependence of issues Includes a Questions and Answers feature which differentiates this book from competing books in the field PHYSICS Paper-III Core Subject (DCS 1B) Heat and Thermodynamics R. N. Mulik, S. G. Holikatti, S. G. Pawar, 2020 This book has been written strictly according to the guidelines of the revised syllabus CBCS Pattern of B Sc I Physics Heat and Thermodymics prescribed by Board of Studies in Physics Punyashlok Ahilyadevi Holkar Solapur University Solapur It is our humble belief that the text books are among the invaluable resources for successful teaching learning process provided they are written within the framework of the aims and objectives laid down and hence this book is really the honest efforts in that direction Thermodynamics International Union of Pure and Applied Chemistry, International Union of Pure and Applied Physics, MECH 341 April 2011, 2011 *Thermodynamic Papers* Josiah Willard Gibbs, 1870 Chemical Thermodynamics III. Plenary Lectures Presented at the 3. International Conference on Chemical Thermodynamics, Baden Bei Wien 1973. Symposium Ed.: G.H. Findenegg G. H. Findenegg, International union of pure and applied chemistry. Division of physical chemistry, IUPAC., 1974 Thermodynamics Research Center Data Project Texas Engineering Experiment Station. Thermodynamics Research

Thermodynamics Research Center Data Project Texas Engineering Experiment Station. Thermodynamics Research Center. Data Project,1970 University of Chicago Graduate Problems in Physics, with Solutions Jeremiah A. Cronin,David F. Greenberg,Valentine L. Telegdi,1970 Thermodynamics Research Center Data Project Texas A & M University. Thermodynamics Research Center,1964 The Development of Diagnostic Questions for Identification of Misconceptions in the Teaching of Thermodynamics Phoka Pius Mahooana,1995

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