

Fourth Semester B.E. Degree Examination, June-July 2009
Applied Thermodynamics

Time: 3 hrs.

Max. Marks:100

Note: 1. Answer any FIVE full questions.

2. Use of steam tables, refrigerant tables/charts, Mollier charts, Psychrometric chart permitted.

1. a. What do you mean by (i) high grade energy (ii) low grade energy (iii) available energy (iv) Unavailable energy and (v) dead state? (05 Marks)
- b. Define the term availability. Derive an expression for the availability of a non cyclic closed system. (05 Marks)
- c. Calculate the decrease in available energy when 90kg of water at 90°C mix with 30kg of water at 30°C, the pressure being taken as constant and the temperature of the surroundings being 15°C. Take C_p of water = 4.2 kJ/kg K. (10 Marks)
2. a. Describe in brief (i) Enthalpy of formation (ii) Enthalpy of combustion and (iii) Internal energy of combustion. (12 Marks)
- b. Calculate the amount of theoretical air required for the complete combustion of 1 kg of acetylene (C_2H_2) to CO_2 and H_2O . (08 Marks)
3. a. Represent the following gas power cycles on P-V and T-S diagrams:
 i) Carnot cycle ii) Otto cycle iii) Diesel cycle iv) Dual cycle
 v) Stirling cycle vi) Brayton cycle (06 Marks)
- b. Compare the Otto and Diesel cycles for the same maximum pressure and same heat input. (04 Marks)
- c. An indicator diagram taken on a diesel engine shows that the compression curve follows the law $PV^{1.4} = \text{Constant}$. At two points lying on the compression curve at $1/8^{\text{th}}$ and $7/8^{\text{th}}$ of the stroke the pressures are 1.6 bar and 16 bar respectively. Find the compression ratio of the engine. If cut off occurs at 6% of the stroke, calculate air standard efficiency of the engine. (10 Marks)
4. a. Draw the flow diagram of steam power plant with regeneration with two stage bleeding and two open feed water heaters. Represent the processes on T-S diagram and explain. Write down energy balance across each feed water heater and derive an expression for regenerative cycle efficiency. (10 Marks)
- b. A Rankine cycle operates between a pressure of 80 bar and 0.1 bar. The maximum cycle temperature is 600°C. If the steam turbine and condensate pump efficiency are 0.9 and 0.8 respectively, calculate the net specific work output and thermal efficiency. Relevant steam tables extract is given below: (10 Marks)

P in bar	t°C	Specific volume in m ³ /kg		Specific enthalpy in kJ/kg			Specific Entropy in kJ/kg K		
		V_f	V_g	h_f	h_{fg}	h_g	s_f	s_{fg}	s_g
0.1	45.84	0.001013	14.68	191.9	2392.3	2584.2	0.6488	7.5006	8.1494
80	295.1	0.001385	0.0235	1317	1440.5	2757.5	3.2073	2.5351	5.7424

5. a. Derive an expression for work required per cycle by a two stage compression without clearance volume and with perfect intercooling. Also, derive an expression for intermediate intercooler pressure for minimum work required. (08 Marks)

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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. **Who's who in**

Finance and Industry, 1995 **Chemical Thermodynamics, III**, 1974 **Thermodynamics Exam File** Stuart T.

McComas, 1985-01-01 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 from 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 emphasis 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. Appendices to Accompany Fundamentals of Engineering Thermodynamics Michael J. Moran, Howard N.

Shapiro, 1997 General Physics Multiple-Choice Questions Abdulaziz Aljalal, Ibraheem Nasser

, 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 a 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

Problems In Chemical Thermodynamics, With Solutions Maka Aleksishvili, Shota Sidamonidze, 2002-11-26 The methods of chemical thermodynamics are effectively used in many fields of science and technology Mastering these methods and their use in practice requires profound comprehension of the theoretical questions and acquisition of certain calculating skills This book is useful to undergraduate and graduate students in chemistry as well as chemical thermal and refrigerating technology it will also benefit specialists in all other fields who are interested in using these powerful methods in their practical activities

Solutions Manual for the Second Edition of Chemical and Engineering Thermodynamics Stanley I. Sandler, 1989

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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 Thermodynamics 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

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Table of Contents Unisa Thermodynamics Iii Question Papers

1. Understanding the eBook Unisa Thermodynamics Iii Question Papers
 - The Rise of Digital Reading Unisa Thermodynamics Iii Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Unisa Thermodynamics Iii Question Papers
 - 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 Unisa Thermodynamics Iii Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Unisa Thermodynamics Iii Question Papers
 - Personalized Recommendations
 - Unisa Thermodynamics Iii Question Papers User Reviews and Ratings
 - Unisa Thermodynamics Iii Question Papers and Bestseller Lists
5. Accessing Unisa Thermodynamics Iii Question Papers Free and Paid eBooks
 - Unisa Thermodynamics Iii Question Papers Public Domain eBooks
 - Unisa Thermodynamics Iii Question Papers eBook Subscription Services
 - Unisa Thermodynamics Iii Question Papers Budget-Friendly Options

6. Navigating Unisa Thermodynamics Iii Question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Unisa Thermodynamics Iii Question Papers Compatibility with Devices
 - Unisa Thermodynamics Iii Question Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Unisa Thermodynamics Iii Question Papers
 - Highlighting and Note-Taking Unisa Thermodynamics Iii Question Papers
 - Interactive Elements Unisa Thermodynamics Iii Question Papers
8. Staying Engaged with Unisa Thermodynamics Iii Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Unisa Thermodynamics Iii Question Papers
9. Balancing eBooks and Physical Books Unisa Thermodynamics Iii Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Unisa Thermodynamics Iii Question Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Unisa Thermodynamics Iii Question Papers
 - Setting Reading Goals Unisa Thermodynamics Iii Question Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Unisa Thermodynamics Iii Question Papers
 - Fact-Checking eBook Content of Unisa Thermodynamics Iii Question Papers
 - 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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