

# 9

## Thermodynamics

- Which of the following statements is correct for the spontaneous absorption of a gas? [2014]
  - $\Delta S$  is negative and therefore,  $\Delta H$  should be highly positive
  - $\Delta S$  is negative and therefore,  $\Delta H$  should be highly negative
  - $\Delta S$  is positive and therefore,  $\Delta H$  should be negative
  - $\Delta S$  is positive and therefore,  $\Delta H$  should also be highly positive
- For the reaction,  $X_2O_4(l) \longrightarrow 2XO_2(g)$ ,  $\Delta U = 2.1 \text{ kcal}$ ,  $\Delta S = 20 \text{ cal K}^{-1}$  at 300 K. Hence,  $\Delta G$  is [2014]
  - 2.7 kcal
  - 2.7 kcal
  - 9.3 kcal
  - 9.3 kcal
- For a given exothermic reaction,  $K_p$  and  $K_p'$  are the equilibrium constants at temperatures  $T_1$  and  $T_2$ , respectively. Assuming that heat of reaction is constant in temperature range between  $T_1$  and  $T_2$ , it is readily observed that [2014]
  - $K_p > K_p'$
  - $K_p < K_p'$
  - $K_p = K_p'$
  - $K_p = \frac{1}{K_p'}$
- A reaction having equal energies of activation for forward and reverse reactions has [2013]
  - $\Delta S = 0$
  - $\Delta G = 0$
  - $\Delta H = 0$
  - $\Delta H = \Delta G = \Delta S = 0$
- In which of the following reactions, standard reaction entropy changes ( $\Delta S^\circ$ ) is positive and standard Gibbs energy change ( $\Delta G^\circ$ ) decreases sharply with increasing temperature? [2012]
  - $C(\text{graphite}) + \frac{1}{2}O_2(g) \longrightarrow CO(g)$
  - $CO(g) + \frac{1}{2}O_2(g) \longrightarrow CO_2(g)$
  - $Mg(s) + \frac{1}{2}O_2(g) \longrightarrow MgO(s)$
  - $\frac{1}{2}C(\text{graphite}) + \frac{1}{2}O_2(g) \longrightarrow \frac{1}{2}CO_2(g)$
- The enthalpy of fusion of water is 1.435 kcal/mol. The molar entropy change for the melting of ice at 0°C is [2012]
  - 10.52 cal/mol K
  - 21.04 cal/mol K
  - 5.260 cal/mol K
  - 0.526 cal/mol K
- Standard enthalpy of vaporisation  $\Delta_{\text{vap}}H^\circ$  for water at 100°C is 40.66 kJ mol<sup>-1</sup>. The internal energy of vaporisation of water at 100°C (in kJ mol<sup>-1</sup>) is (assume water vapour to behave like an ideal gas). [2012]
  - + 37.56
  - 43.76
  - + 43.76
  - + 40.66
- If the enthalpy change for the transition of liquid water to steam is 30 kJ mol<sup>-1</sup> at 27°C, the entropy change for the process would be [2011]
  - 1.0 J mol<sup>-1</sup>K<sup>-1</sup>
  - 0.1 J mol<sup>-1</sup>K<sup>-1</sup>
  - 100 J mol<sup>-1</sup>K<sup>-1</sup>
  - 10 J mol<sup>-1</sup>K<sup>-1</sup>

# Thermodynamics Problems And Answers

**The Editors of REA, Ralph Pike**



## **Thermodynamics Problems And Answers:**

**Thermodynamics Problem Solver** The Editors of REA, Ralph Pike, 2013-01-01 REA's Thermodynamics Problem Solver Each Problem Solver is an insightful and essential study and solution guide chock full of clear concise problem solving gems Answers to all of your questions can be found in one convenient source from one of the most trusted names in reference solution guides More useful more practical and more informative these study aids are the best review books and textbook companions available They're perfect for undergraduate and graduate studies This highly useful reference provides thorough coverage of pressure work and heat energy entropy first and second laws ideal gas processes vapor refrigeration cycles mixtures and solutions For students in engineering physics and chemistry

**Continuum Mechanics Via Problems and Exercises: Answers and solutions** Margarita E. Eglit, Dewey H. Hodges, 1996 These volumes are intended to help graduate level students of continuum mechanics become more proficient in its applications through the solution of analytical problems Areas covered include fluid mechanics thermodynamics elastic and inelastic solids electricity and dimensional analysis Part 2 consists of about 1000 solved problems

**Problems and Solutions in Thermal Engineering** Shiv Kumar, 2023-07-15 This book is a collection of over 225 multiple choice type questions MCQs and more than 40 practice exam questions with solutions This book complements a 2 volume textbook set titled Thermal Engineering by the same author The answers are adequately supported by well illustrated diagrams wherever necessary for better understanding of the concepts The book also included steam tables as an appendix to aid in problem solving This book proves useful for undergraduate students of mechanical engineering and related disciplines The book is used in conjunction with the author's textbook set on thermal engineering or as a supplement to other core textbooks and lecture materials It is used to support classroom teaching or as a self study guide The problem solution format also proves useful for students and professionals involved in exam prep for graduate university entrance tests and professional certifications

**Modern Engineering Thermodynamics** Robert Balmer, 2011-01-25 Modern Engineering Thermodynamics is designed for use in a standard two semester engineering thermodynamics course sequence The first half of the text contains material suitable for a basic Thermodynamics course taken by engineers from all majors The second half of the text is suitable for an Applied Thermodynamics course in mechanical engineering programs The text has numerous features that are unique among engineering textbooks including historical vignettes critical thinking boxes and case studies All are designed to bring real engineering applications into a subject that can be somewhat abstract and mathematical Over 200 worked examples and more than 1 300 end of chapter problems provide opportunities to practice solving problems related to concepts in the text Provides the reader with clear presentations of the fundamental principles of basic and applied engineering thermodynamics Helps students develop engineering problem solving skills through the use of structured problem solving techniques Introduces the Second Law of Thermodynamics through a basic entropy concept providing students a more intuitive understanding of this key course topic

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*A Textbook of Engineering Thermodynamics* Ghosh B.B./ Roy P.C./ Chakrabarti Satyajit & Ghosh Samir,2014 Thermodynamics being one of the basic subjects in all engineering disciplines there are umpteen books on it The main aim of this one is to make the subject effortless for the students and help them pass the examination with flying colours For this reason the text has been kept short and simple and the book provides a heavy dose of solved examples MCQs review questions and numerical problems to hone the problem solving skills It has been written in such a style that the students of all streams be it mechanical chemical electrical or civil will find it comprehensible The book covers the syllabuses of degree classes of most Indian universities It is designed to serve both levels the basic as well as applied thermodynamics to give a new dimension to the learning of thermodynamics Key Features More than 225 Solved Examples More than 240 MCQs More than 210 Review Questions More than 210 Numerical Problems

*Thermodynamics and Thermal Engineering* J.Selwin Rajadurai,2003 Thermodynamics And Thermal Engineering A Core Text In Si Units Meets The Complete Requirements Of The Students Of Mechanical Engineering In All Universities Ultimately It Aims At Aiding The Students Genuinely Understand The Basic Principles Of Thermodynamics And Apply Those Concepts To Practical Problems Confidently It Provides A Clear And Detailed Exposition Of Basic Principles Of Thermodynamics Concepts Like Enthalpy Entropy Reversibility Availability Are Presented In Depth And In A Simple Manner Important Applications Of Thermodynamics Like Various Engineering Cycles And Processes Are Explained In Detail Introduction To Latest Topics Are Enclosed At The End Each Topic Is Further Supplemented With Solved Problems Including Problems From Gate Ies Exams Objective Questions Along With Answers Review Questions And Exercise Problems Alongwith Answers For An Indepth Understanding Of The Subject

**Introduction to the Thermodynamics of Materials** David R. Gaskell,David E. Laughlin,2024-07-23 Maintaining the substance that has made Introduction to the Thermodynamics of Materials a perennial bestseller for decades the Seventh Edition is updated to reflect the broadening field of materials science and engineering Chapters are updated and revised throughout to be more useful and logical for students Features more than 60 new homework problems for the students a listing of terms and concepts introduced and a summary section Includes more on mathematical and graphical analysis of the various state functions utilized in classical thermodynamics Includes a more extensive discussion of the third law of thermodynamics Features a new appendix on exact differential equations and mathematical relationships including all mathematical relations among differentials of homogeneous functions utilized in the text Written as the definitive introduction to the thermodynamic behavior of materials systems this text presents the underlying thermodynamic principles of materials and their applications and continues to be the best undergraduate textbook in thermodynamics for materials science students An updated solutions manual is also available for

qualifying adopting professors      **Problems and Solutions in Engineering Thermodynamics** S C. Singhal,2009-02-01

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a text that foregoes clutter and unnecessary details but furnishes the essential facts and methods Thermodynamics for Engineers Second Edition continues **Stoichiometry and Thermodynamics of Metallurgical Processes** Y. K. Rao,1985-10-31 Originally published in 1985 this textbook provides a thorough and comprehensive coverage of a wide range of topics in stoichiometry and thermodynamics with special emphasis on applications to metallurgical processes This book will be welcomed as a text for courses in elementary and advanced thermodynamics and stoichiometry **Fundamentals of Engineering Thermodynamics** R. Yadav ,2023-05-10 Thermodynamics deals with energy interactions between material bodies It is the science of 3E s namely Energy Entropy and Equilibrium The applications of its laws and principles are found in all fields of energy technology notably in steam gas and nuclear power plants internal combustion engines gas turbines jet propulsion refrigeration air conditioning compressors gas dynamics and direct energy conversion Starting with the basic concept the book discusses the important topics such as basic concepts heat and work energy ideal and real gases zeroth first and second laws of thermodynamics entropy and third law available energy and exergy gas power cycles vapour power cycles general thermodynamic relations refrigeration cycles psychrometry non reactive mixtures reactive mixture chemical equilibrium direct energy conversion compressible flows and heat transfer The book is an essential text for BE B Tech for Mechanical Engineering students UPSC and GATE examinations The Physical Basis of Biochemistry Peter R. Bergethon,Kevin Hallock,2010-11-01 advanced undergraduate beginning graduate level students and would be applied to courses focusing on three different areas Foundations of molecular biophysics Macromolecular structure and assembly Methods in physical biochemistry Classical and Quantum Thermal Physics R. Prasad,2016-11-02 Discusses the interactions of heat energy and matter *Engineering Physics MCQ (Multiple Choice Questions)* Arshad Iqbal, The Engineering Physics Multiple Choice Questions MCQ Quiz with Answers PDF Engineering Physics MCQ PDF Download Quiz Questions Chapter 1 36 Practice Tests with Answer Key Physics Questions Bank MCQs Notes includes revision guide for problem solving with hundreds of solved MCQs Engineering Physics MCQ with Answers PDF book covers basic concepts analytical and practical assessment tests Engineering Physics MCQ PDF book helps to practice test questions from exam prep notes The Engineering Physics MCQs with Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved MCQs Engineering Physics Multiple Choice Questions and Answers MCQs PDF Free download chapter 1 a book covers solved quiz questions and answers on chapters Alternating fields and currents astronomical data capacitors and capacitance circuit theory conservation of energy coulomb s law current produced magnetic field electric potential energy equilibrium indeterminate structures finding electric field first law of thermodynamics fluid statics and dynamics friction drag and centripetal force fundamental constants of physics geometric optics inductance kinetic energy longitudinal waves magnetic force models of magnetism newton s law of motion Newtonian gravitation Ohm s law optical diffraction optical interference physics and measurement properties of common elements rotational motion second law of

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