

Subject:- Chemistry

Chemical Thermodynamics and Energetics

Practice Problems-II

Q1) Three moles of an ideal gas are expanded isothermally from a volume of 300 cm³ to 2.5 L at 300 K against a pressure of 1.9 atm. Calculate the work done in L atm and joules.

Soln:- $V_1 = 300 \text{ c.c.} = 0.3 \text{ L}$, $V_2 = 2.5 \text{ L}$, $T = 300 \text{ K}$, $P_{ex} = 1.9 \text{ atm}$

$$\begin{aligned} W &= -P_{ex}\Delta V = -P_{ex}(V_2 - V_1) \\ &= -1.9(2.5 - 0.3) = -1.9 \times 2.2 \end{aligned}$$

$$\therefore W = -4.18 \text{ L atm}$$

$$\text{and } W = -4.18 \times 101.3 = -423.4 \text{ J}$$

Q2) One mole of an ideal gas is compressed from 500 cm³ against a constant pressure of $1.216 \times 10^5 \text{ Pa}$. The work involved in the process is 36.50 J. Calculate the final volume.

Soln:- $V_1 = 500 \text{ c.c.} = 0.5 \text{ dm}^3$,

$$P_{ex} = 1.216 \times 10^5 \text{ Pa} = 1.216 \times 10^2 \text{ kPa}, W = 36.50 \text{ J}$$

$$W = -P_{ex}\Delta V$$

Problems In Thermodynamics

**William John PECK (and RICHMOND
(Sir Alan James)), Sir Alan James
RICHMOND**

Problems In Thermodynamics:

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

Problems in Thermodynamics and Statistical Physics Peter T. Landsberg, 2014-06-10 Well respected widely used volume presents problems and full solutions related to a wide range of topics in thermodynamics statistical physics statistical mechanics Suitable for undergraduates and graduate students self study reference 1989 edition

Problems in Thermodynamics and Steam Power Plant Engineering Allen Holt Blaisdell, Thomas Gemmill Estep, 1925 *Engineering Applications of Higher Mathematics: Problems on thermodynamics* Vladimir Karapetoff, 1916

Problems on Thermodynamics Virgil Moring Faires, 1948 **Thermodynamics** Earl Logan, 1999 Examining practical hands on applications in large scale industrial settings this work covers the principles of the science of thermodynamics It presents applications for power plants refrigeration and air conditioning systems and turbomachinery Solutions manual available

Problems on Thermodynamics Virgil Moring Faires, 1959 **Modern Engineering Thermodynamics - Textbook with Tables Booklet** Robert T. Balmer, 2011-01-03 Modern Engineering Thermodynamics Textbook with Tables Booklet offers a problem solving approach to basic and applied engineering thermodynamics with historical vignettes critical thinking boxes and case studies throughout to help relate abstract concepts to actual engineering applications It also contains applications to modern engineering issues This textbook is designed for use in a standard two semester engineering thermodynamics course sequence with the goal of helping students develop engineering problem solving skills through the use of structured problem solving techniques 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 Second Law of Thermodynamics is introduced through a basic entropy concept providing students a more intuitive understanding of this key course topic Property Values are discussed before the First Law of Thermodynamics to ensure students have a firm understanding of property data before using them Over 200 worked examples and more than 1 300 end of chapter problems provide an extensive opportunity to practice solving problems For greater instructor flexibility at exam time thermodynamic tables are provided in a separate accompanying booklet University students in mechanical chemical and general engineering taking a thermodynamics course will find this book extremely helpful Provides the reader with clear presentations of the

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Simmang, Alexander Van Brewer, 1978 **Problems in Applied Thermodynamics** Colin Bodsworth, A. S. Appleton, 1965

A Guide to Physics Problems Sidney B. Cahn, Gerald D. Mahan, Boris E. Nadgorny, 2007-05-08 In order to equip hopeful graduate students with the knowledge necessary to pass the qualifying examination the authors have assembled and solved standard and original problems from major American universities Boston University University of Chicago University of Colorado at Boulder Columbia University of Maryland University of Michigan Michigan State Michigan Tech MIT Princeton Rutgers Stanford Stony Brook University of Tennessee at Knoxville and the University of Wisconsin at Madison and Moscow Institute of Physics and Technology A wide range of material is covered and comparisons are made between similar problems of different schools to provide the student with enough information to feel comfortable and confident at the exam Guide to Physics Problems is published in two volumes this book Part 2 covers Thermodynamics Statistical Mechanics and Quantum Mechanics Part 1 covers Mechanics Relativity and Electrodynamics Praise for A Guide to Physics Problems Part 2 Thermodynamics Statistical Physics and Quantum Mechanics A Guide to Physics Problems Part 2 not only serves an important function but is a pleasure to read By selecting problems from different universities and even different scientific cultures the authors have effectively avoided a one sided approach to physics All the problems are good some are very interesting some positively intriguing a few are crazy but all of them stimulate the reader to think about physics not merely to train you to pass an exam I personally received considerable pleasure in working the problems and I would guess that anyone who wants to be a professional physicist would experience similar enjoyment This book will be a great help to students and professors as well as a source of pleasure and enjoyment From Foreword by Max Dresden An excellent resource for graduate students in physics and one expects also for their teachers Daniel Kleppner Lester Wolfe Professor of Physics Emeritus MIT A nice selection of problems Thought provoking entertaining and just plain fun to solve Giovanni Vignale Department of Physics and Astronomy University of Missouri at Columbia Interesting indeed and enjoyable The problems are ingenious and their solutions very informative I would certainly recommend it to all graduate students and physicists in general Particularly useful for teachers who would like to think about problems to present in their course Joel Lebowitz

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Solved Problems in Thermodynamics and Statistical Physics Gregor Skačej, Primož Ziherl, 2019-11-09 This book contains a modern selection of about 200 solved problems and examples arranged in a didactic way for hands on experience with course work in a standard advanced undergraduate first year graduate class in thermodynamics and statistical physics The principles of thermodynamics and equilibrium statistical physics are few and simple but their application often proves more involved than it may seem at first sight This book is a comprehensive complement to any textbook in the field emphasizing the analogies between the different systems and paves the way for an in depth study of solid state physics soft matter physics and field theory Thermodynamics of Reversible Cycles in Gases and Saturated Vapors Michael Pupin, 1894 Applied Thermodynamics Problems for Engineers William John Peck, Alan James Richmond, 1962 Problems in Thermodynamics and Statistical Physics Peter Theodore Landsberg, 1971 Conquering the Physics GRE Yoni Kahn, Adam Anderson, 2018-03-01 The Physics GRE plays a significant role in deciding admissions to nearly all US physics Ph D programs yet few exam prep books focus on the test s actual content and unique structure Recognized as one of the best student resources available this tailored guide has been thoroughly updated for the current Physics GRE It contains carefully selected review material matched to all of the topics covered as well as tips and tricks to help solve problems under time pressure It features three full length practice exams revised to accurately reflect the difficulty of the current test with fully worked solutions so that students can simulate taking the test review their preparedness and identify areas in which further study is needed Written by working physicists who took the Physics GRE for their own graduate admissions to the Massachusetts Institute of Technology this self contained reference guide will help students achieve their best score

Chemical Process Principles: Thermodynamics Olaf Andreas Hougen, 1954 **Worked Problems in Heat, Thermodynamics and Kinetic Theory for Physics Students** L. Pincherle, 2013-10-22 *Worked Problems in Heat Thermodynamics and Kinetic Theory for Physics Students* is a complementary to textbooks in physics This book is a collection of exercise problems that have been part of tutorial classes in heat and thermodynamics at the University of London This collection of exercise problems with answers that are fully worked out deals with various topics This book poses problems

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Applied Thermodynamics William John PECK (and RICHMOND (Sir Alan James)), Sir Alan James RICHMOND, 1949

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