

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 Chemical Thermodynamics With Solutions

Maka Aleksishvili, Shota Sidamonidze



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Chemical Thermodynamics M L McGlashan, 2007-10-31 Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research Written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry For over 80 years the Royal Society of Chemistry and its predecessor the Chemical Society have been publishing reports charting developments in chemistry which originally took the form of Annual Reports However by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic Organic and Physical Chemistry For more general coverage of the highlights in chemistry they remain a must Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry Some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued

Thermodynamics Problem Solving in Physical Chemistry Kathleen E. Murphy, 2020-03-23 Thermodynamics Problem Solving in Physical Chemistry Study Guide and Map is an innovative and unique workbook that guides physical chemistry students through the decision making process to assess a problem situation create appropriate solutions and gain confidence through practice solving physical chemistry problems The workbook includes six major sections with 20 30 solved problems in each section that span from easy single objective questions to difficult multistep analysis problems Each section of the workbook contains key points that highlight major features of the topic to remind students of what they need to apply to solve problems in the topic area Key Features Provides instructor access to a visual map depicting how all equations used in thermodynamics are connected and how they are derived from the three major energy laws Acts as a guide in deriving the correct solution to a

problem Illustrates the questions students should ask themselves about the critical features of the concepts to solve problems in physical chemistry Can be used as a stand alone product for review of Thermodynamics questions for major tests

Physical Chemistry Student Solutions Manual Charles Trapp, Peter Atkins, Marshall Cady, 2006-08-11 Change 21

Chemical Thermodynamics for Industry Trevor M Letcher, 2007-10-31 Chemical Thermodynamics for Industry presents the latest developments in applied thermodynamics and highlights the role of thermodynamics in the chemical industry Written by leading experts in the field Chemical Thermodynamics for Industry covers the latest developments in traditional areas such as calorimetry microcalorimetry transport properties crystallization adsorption electrolyte systems and transport fuels It highlights newly established areas such as multiphase modeling reactive distillation non equilibrium thermodynamics and spectro calorimetry It also explores new ways of treating old technologies as well as new and potentially important areas such as ionic liquids new materials ab initia quantum chemistry nano particles polymer recycling clathrates and the economic value of applied thermodynamics This book is aimed not only at those working in a specific area of chemical thermodynamics but also at the general chemist the prospective researcher and those involved in funding chemical research *Chemistry* James N. Spencer, George M. Bodner, Lyman H. Rickard, 2010-12-28 Chemistry Structure and Dynamics 5th Edition emphasises deep understanding rather than comprehensive coverage along with a focus on the development of inquiry and reasoning skills While most mainstream General Chemistry texts offer a breadth of content coverage the Spencer author team in contrast focuses on depth and student preparation for future studies The fifth edition is revised in keeping with our commitment to the chemical education community and specifically the POGIL Process Oriented Guided Inquiry Learning Project This text reflects two core principles first that the concepts that are covered are fundamental building blocks for understanding chemistry and second that the concepts should be perceived by the students as being directly applicable to their interests and careers The authors further provide this core coverage using 1 of 3 models data driven chemical theories and student understanding which allows for a more concrete foundation on which students build conceptual understanding Chemistry for Degree Students B.Sc. (Honours) Semester II, 1/e (As per CBCS) Madan R.L., 2022 This textbook has been designed to meet the needs of B Sc Honours Second Semester students of Chemistry as per the UGC Choice Based Credit System CBCS Maintaining the traditional approach to the subject this textbook lucidly explains the basics of Organic and Physical Chemistry Important topics such as alkanes alkenes alkynes stereochemistry aliphatic hydrocarbons thermochemistry chemical thermodynamics and chemical equilibrium are aptly discussed to give an overview of organic and physical chemistry Laboratory work has also been included to help students achieve solid conceptual understanding and learn experimental procedures *Trace Metals in Aquatic Systems* Robert P. Mason, 2013-02-20 This book provides a detailed examination of the concentration form and cycling of trace metals and metalloids through the aquatic biosphere and has sections dealing with the atmosphere the ocean lakes and rivers It discusses exchanges at the

water interface air water and sediment water and the major drivers of the cycling concentration and form of trace metals in aquatic systems The initial chapters focus on the fundamental principles and modelling approaches needed to understand metal concentration speciation and fate in the aquatic environment while the later chapters focus on specific environments with case studies and research highlights Specific examples deal with metals that are of particular scientific interest such as mercury iron arsenic and zinc and the book deals with both pollutant and required nutrient metals and metalloids The underlying chemical principles controlling toxicity and bioavailability of these elements to microorganisms and to the aquatic food chain are also discussed Readership Graduate students studying environmental chemistry and related topics as well as scientists and managers interested in the cycling of trace substances in aqueous systems Additional resources for this book can be found at www.wiley.com/go/mason/tracemetals

Understanding Advanced Chemistry Through Problem Solving: The Learner's Approach - Volume 1 (Revised Edition) Kim Seng Chan, Jeanne Tan, 2023-11-02 Written for students taking either the University of Cambridge Advanced Level examinations or the International Baccalaureate examinations this guidebook covers essential topics and concepts under both stipulated chemistry syllabi The book is written in such a way as to guide the reader through the understanding and applications of essential chemical concepts using the problem solving approach The authors have also retained the popular discourse feature from their previous two books Understanding Advanced Physical Inorganic Chemistry and Understanding Advanced Organic and Analytical Chemistry to help the learners better understand and see for themselves how the concepts should be applied during solving problems Based on the Socratic Method questions are implanted throughout the book to help facilitate the reader's development in forming logical conclusions of the concepts and the way they are being applied to explain the problems In addition the authors have also included important summaries and concept maps to help the learners to recall remember reinforce and apply the fundamental chemical concepts in a simple way

Trends in the Historiography of Science K. Gavroglu, Y. Christianidis, Efthymios Nicolaidis, 2013-04-18 The articles in this volume have been first presented during an international Conference organised by the Greek Society for the History of Science and Technology in June 1990 at Corfu The Society was founded in 1989 and planned to hold a series of meetings to impress upon an audience comprised mainly by Greek students and scholars the point that history of science is an autonomous discipline with its own plurality of approaches developed over the years as a result of long discussions and disputes within the community of historians of science The Conference took place at a time when more and more people came to realise that the future of the Greek Universities and Research Centres depends not only on the progress of the institutional reforms but also very crucially on the establishment of new and modern subject areas Though there have been significant steps towards such a direction in the physical sciences mathematics and engineering the situation in the so called humanities has been at best confusing Political expediencies of the post war years and ideological commitments to a glorious yet very distant past paralysed the development of the humanities and constrained

them within a framework which could not allow much more than a philological approach

Bulletin of Chemical Thermodynamics, 1987

Basic Chemical Thermodynamics Eric Brian Smith, 2004 This widely acclaimed text now in its fifth edition and translated into many languages continues to present a clear simple and concise introduction to chemical thermodynamics An examination of equilibrium in the everyday world of mechanical objects provides the starting point for an accessible account of the factors that determine equilibrium in chemical systems This straightforward approach leads students to a thorough understanding of the basic principles of thermodynamics which are then applied to a wide range of physico chemical systems The book also discusses the problems of non ideal solutions and the concept of activity and provides an introduction to the molecular basis of thermodynamics Over five editions the views of teachers of the subject and their students have been incorporated The result is a little more rigour in specifying the dimensions within logarithmic expressions the addition of more worked examples and the inclusion of a simple treatment of the molecular basis of thermodynamics Students on courses in thermodynamics will continue to find this popular book an excellent introductory text

Practical Chemical Thermodynamics for Geoscientists Bruce Fegley, Rose Osborne, 2013 Presents brief historical summaries and biographies of key thermodynamics scientists alongside the fundamentals they were responsible for

Concepts And Problems In Physical Chemistry P.S. Raghavan, 1997 Contents Introduction Atoms Molecules and Formulas Chemical Equations and Stoichiometry Aqueous Reactions and Solution Stoichiometry Gases Intermolecular Forces Liquids and Solids Atoms Structure and the Periodic Table Chemical Bonding Chemical Thermodynamics Solutions Chemical Kinetics Chemical Equilibrium Acids and Bases Ionic Equilibria I Ionic Equilibria II Redox Reactions Electrochemistry Nuclear Chemistry

Elementary Chemical Thermodynamics Bruce H. Mahan, 2013-02-13 This straightforward presentation emphasizes chemical applications of thermodynamics as well as physical interpretations offering students an introduction that is both interesting and coherent It considers chemical behavior in terms of energy and entropy and it explains the ways in which the magnitude of energy and entropy changes are dictated by atomic properties All concepts are presented in a simplified mathematical context making this an ideal text for a beginning course in thermodynamics The author considers the first and second laws of thermodynamics in turn after which he proceeds to applications of thermodynamic principles He devotes considerable attention to the concept of entropy emphasizing the interpretation of entropy changes and chemical behavior in terms of qualitative molecular properties Students gain a familiarity with the entropy concept that will form a solid foundation for later courses and more formal thermodynamic treatments

Aquatic Chemistry Werner Stumm, James J. Morgan, 2013-09-23 The authoritative introduction to natural water chemistry THIRD EDITION Now in its updated and expanded Third Edition Aquatic Chemistry remains the classic resource on the essential concepts of natural water chemistry Designed for both self study and classroom use this book builds a solid foundation in the general principles of natural water chemistry and then proceeds to a thorough treatment of more advanced topics Key

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