

**Subject:- Chemistry**

# **Chemical Thermodynamics and Energetics**

## **Practice Problems-II**

**Q1) Three moles of an ideal gas are expanded isothermally from a volume of 300 cm<sup>3</sup> 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 cm<sup>3</sup> 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

**Rosina Ehmman**



## **Problems In Chemical Thermodynamics:**

Problems in Chemical Thermodynamics with Solutions Maka Aleksishvili, Shota Sidamonidze, 2002 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

**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

## **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 Chemical Thermodynamics: Principles and Applications J. Bevan Ott, Juliana Boerio-Goates, 2000-06-07 Chemical Thermodynamics Principles and Applications presents a thorough development of the principles of thermodynamics an old science to which the authors include the most modern applications along with those of importance in developing the science and those of historical interest The text is written in an informal but rigorous style including anecdotes about some of the great thermodynamicists with some of whom the authors have had a personal relationship and focuses on real systems in the discussion and figures in contrast to the generic examples that are often used in other textbooks The book provides a basic review of thermodynamic principles equations and applications of broad interest It covers the development of thermodynamics as one of the pre eminent examples of an exact science A discussion of the standard state that emphasizes its significance and usefulness is also included as well as a more rigorous and indepth treatment of thermodynamics and discussions of a wider variety of applications than are found in more broadly based physical chemistry undergraduate textbooks Combined with its companion book Chemical Thermodynamics Advanced Applications the practicing scientist will have a complete reference set detailing chemical thermodynamics Outlines the

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**Examples and Problems in Chemical Thermodynamics** M. Kh

Karapetyants, Mikhail Khristoforovich Karapet'iants, 1976

**Chemical Thermodynamics: Advanced Applications** J.

Bevan Ott, Juliana Boerio-Goates, 2000-06-16 This book is an excellent companion to Chemical Thermodynamics Principles and Applications Together they make a complete reference set for the practicing scientist This volume extends the range of topics and applications to ones that are not usually covered in a beginning thermodynamics text In a sense the book covers a middle ground between the basic principles developed in a beginning thermodynamics textbook and the very specialized applications that are a part of an ongoing research project As such it could prove invaluable to the practicing scientist who needs to apply thermodynamic relationships to aid in the understanding of the chemical process under consideration The writing style in this volume remains informal but more technical than in Principles and Applications It starts with Chapter 11 which summarizes the thermodynamic relationships developed in this earlier volume For those who want or need more detail references are given to the sections in Principles and Applications where one could go to learn more about the development limitations and conditions where these equations apply This is the only place where Advanced Applications ties back to the previous volume Chapter 11 can serve as a review of the fundamental thermodynamic equations that are necessary for the more sophisticated applications described in the remainder of this book This may be all that is necessary for the practicing scientist who has been away from the field for some time and needs some review The remainder of this book applies thermodynamics to the description of a variety of problems The topics covered are those that are probably of the most fundamental and broadest interest Throughout the book examples of real systems are used as much as possible This is in contrast to many books where generic examples are used almost exclusively A complete set of references to all sources of data and to supplementary reading sources is included Problems are given at the end of each chapter This makes the book ideally suited for use as a textbook in an advanced topics course in chemical thermodynamics An excellent review of thermodynamic principles and mathematical relationships along with references to the relevant sections in Principles and Applications where these equations are developed Applications of thermodynamics in a wide variety of chemical processes including phase equilibria chemical equilibrium properties of mixtures and surface chemistry Case study approach to demonstrate the application of thermodynamics to biochemical geochemical and industrial processes Applications at the

cutting edge of thermodynamics Examples and problems to assist in learning Includes a complete set of references to all literature sources

**Problems in Chemical Thermodynamics** Richard J. Bearman, Benjamin Chu, 1972

**Chemical Thermodynamics** J. Rouquerol, R. Sabbah, 2013-10-22 Chemical Thermodynamics 4 presents the application of experimental methods of chemical thermodynamics This book discusses the three properties of biological molecules namely colossal dimension exclusive orderliness and capability to be in different states or conformations depending on conditions Organized into eight chapters this book begins with an overview of the trends in thermochemistry that involve complex reaction systems and product mixtures This text then discusses the problems relating to the standard state of solids and illustrates the utilization of enthalpy of mixing data Other chapters consider the available heat capacity results in the liquid gas This book discusses as well the high temperature measurement of thermodynamic data for substances of metallurgical interest The final chapter deals with the important advances in the experimental methods of heat capacity measurements including laser flash calorimetry and the high resolution heat capacity calorimeter This book is a valuable resource for chemists physical chemists thermochemists thermophysicists nuclear engineers and research workers

Examples and Problems in Chemical Thermodynamics Mikhail Khristoforovich Karapet'janc, 1976

**The Chemical Thermodynamics of Organic Compounds** Daniel Richard Stull, Edgar F. Westrum, Gerard Clarence Sinke, 1969

**Chemical thermodynamics and kinetics for life and environmental sciences** Juan Antonio Anta, Sofía Calero, Alejandro Cuetos, 2021-06-17 This book is aimed at undergraduate students of natural applied sciences like biotechnology biochemistry environmental sciences nutrition dietetics and related studies The main idea is to present the basic concepts and tools in a simple didactic but rigorous way focusing on practical aspects of these important disciplines Thus the methodology is problem solving oriented In the text each Chapter is preceded by a very brief theoretical introduction where the main definitions fundamental laws and equations are presented Following the introduction the most important concepts are developed and illustrated via the detailed solution of a number of selected problems Special attention is paid to specific topics with applications in biology applied chemistry environmental science etc The aim of this book is to provide the basic contents and skills required by an undergraduate student of higher education institutions where thermodynamics and kinetics are not the core of the training but are rather meant to be useful tools

**Chemical Thermodynamics** Aleksandr Nikolaevich Krestovnikov, Vilenin Naumovich Vigdorovich, 1964

**Chemical and Engineering Thermodynamics** Stanley I. Sandler, 1977 A More Accessible Approach to Thermodynamics In this third edition you ll find a modern approach to applied thermodynamics The material is presented in sufficient detail to provide a solid understanding of the principles of thermodynamics and its classical applications Also included are the applications of chemical engineering thermodynamics to issues such as the distribution of chemicals in the environment safety polymers and solid state processing To make thermodynamics more accessible several helpful features are included Important concepts are emphasized in marginal notes throughout each chapter Illustrations have also been

added to demonstrate the use of these concepts and to provide a better understanding of the material Boxes are used to highlight equations so that students can easily identify the end results of analyses You can also visit the text s web site to download additional problem sets computer programs to solve thermodynamic and phase behavior problems and Mathcad r worksheets used for problem solving **Bulletin of Chemical Thermodynamics**, 1987 Basic Chemical

Thermodynamics Eric Brian Smith,1982 The major change in this edition is the addition of a new chapter which provides a simple treatment of the molecular basis of thermodynamics Numerical examples have been added but overall emphasis is again placed on a clear explanation of the underlying concepts of thermodynamics the traditional approaches to the subject are modified so that the reader is led from an examination of equilibrium in the everyday world of mechanical objects to a thorough understanding of the factors that determine equilibrium in chemical systems The results are applied to a wide range of physicochemical problems The book also gives a brief introduction to the difficult problems of non ideal solutions and the concept of activity **Bulletin of Thermodynamics and Thermochemistry**, 1974 **Chemical**

**Thermodynamics** Mikhail Khristoforovich Karapet'iants,1978 Basic Chemical Thermodynamics (Fifth Edition) E Brian Smith,2004-04-08 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 a The Chemical Thermodynamics of Actinide Elements and Compounds: The actinide elements F. L. Oetting,1976 **Chemical Thermodynamics** Norman Obed Smith,1967

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