

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

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

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

Thermodynamics Practice Problems And Solutions Chemistry

**William Crookes, James H.
Gardiner, Gerald Druce, H. W. Blood-
Ryan**

Thermodynamics Practice Problems And Solutions Chemistry:

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

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

(Free Sample) GO TO Objective NEET Chemistry Guide with DPP & CPP Sheets 9th Edition Disha Experts, 2021-10-07 The thoroughly revised updated 9th Edition of Go To Objective NEET Chemistry is developed on the objective pattern following the chapter plan as per the NCERT books of class 11 and 12 The book has been rebranded as GO TO keeping the spirit with which this edition has been designed The complete book has contains 31 Chapters In the new structure the book is completely revamped with every chapter divided into 2 4 Topics Each Topic contains Study Notes along with a DPP Daily Practice Problem of 15 20 MCQs This is followed by a Revision Concept Map at the end of each chapter The theory is followed by a set of 2 Exercises for practice The first exercise is based on Concepts Application It also covers NCERT based questions This is followed by Exemplar past 8 year NEET 2013 2021 questions In the end of the chapter a CPP Chapter Practice Problem Sheet of 45 Quality MCQs is provided The solutions to all the questions have been provided immediately at the end of each chapter

GO TO Objective NEET 2021 Chemistry Guide 8th Edition Disha Experts,

Cracking the GRE Chemistry Subject Test Princeton Review (Firm), 2005 The GRE subject tests are among the most difficult standardized exams Rather than testing general problem solving skills they require highly specialized knowledge The experts at The Princeton Review have thoroughly research each subject test to provide students with the most thorough up to date information available Students don t need to relearn the entire histories of their fields just what they need to know to earn high scores on the exams Each guide includes one full length practice exam complete with comprehensive explanations for every solution

Survival Guide to General Chemistry Patrick E. McMahon, Rosemary McMahon, Bohdan Khomtchouk, 2019-02-13 This work evolved over thirty combined years of teaching general chemistry to a variety of student

demographics The focus is not to recap or review the theoretical concepts well described in the available texts Instead the topics and descriptions in this book make available specific detailed step by step methods and procedures for solving the major types of problems in general chemistry Explanations instructional process sequences solved examples and completely solved practice problems are greatly expanded containing significantly more detail than can usually be devoted to in a comprehensive text Many chapters also provide alternative viewpoints as an aid to understanding Key Features The authors have included every major topic in the first semester of general chemistry and most major topics from the second semester Each is written in a specific and detailed step by step process for problem solving whether mathematical or conceptual Each topic has greatly expanded examples and solved practice problems containing significantly more detail than found in comprehensive texts Includes a chapter designed to eliminate confusion concerning acid base reactions which often persists through working with acid base equilibrium Many chapters provide alternative viewpoints as an aid to understanding This book addresses a very real need for a large number of incoming freshman in STEM fields

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

Chemical News and Journal of Industrial Science, 1908 *The Chemical News and Journal of Physical Science*, 1911 *The Chemical News and Journal of Industrial Science*, 1912

Oswaal JEE (Main) Question

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Board, 2024-02-28 Description of the Product 100% Updated with 2 latest solved papers of 27th January Shift 1 29th January Shift 2 2024 Extensive Practice with more than 1500 fully solved questions of 2019 to 2023 Concept Clarity with Chapter wise Topic wise Concept based videos Mind Maps Mnemonics Valuable Exam Insights with Tips to crack JEE Main Exam in first Attempt Examination Analysis with last 5 Years Chapter wise Trend Analysis

Physical Chemistry for the Life

Sciences Peter Atkins, Julio de Paula, 2011 Peter Atkins and Julio de Paula offer a fully integrated approach to the study of physical chemistry and biology Rapid Review of Chemistry for the Life Sciences and Engineering Armen S.

Casparian, Gergely Sirokman, Ann Omollo, 2021-12-07 Designed to demystify chemistry for the non chemist Rapid Review of Chemistry for the Life Sciences and Engineering is a useful reference manual for life scientists and engineers who may have forgotten a formula principle or concept in the college chemistry taken a few years ago With over 100 solved examples from balancing chemical reactions doing stoichiometry and understanding nomenclature rules in both organic and inorganic chemistry to calculating half lives in kinetics or radioactive decay schemes understanding colligative properties of solutions and interpreting toxicities of hazardous materials this book is intended to make reviewing and understanding chemistry much clearer and easier Relevant diagrams are in color and solved examples are organized by subject topic and cross referenced by page and chapter number It may also serve as a concise go to sidekick for students who are not chemistry majors taking chemistry at the college level and having difficulty understanding the scope focus language or equations in their chemistry textbook Armed with select contemporary applications it is written in the hope to bridge a gap between chemists and non chemists so that they may communicate with and understand each other Chapters 1-10 are designed to contain the standard material in an introductory college chemistry course Chapters 11-15 present applications of chemistry that should interest and appeal to scientists and engineers engaged in a variety of fields Additional features More than 100 solved examples clearly illustrated and explained with SI units and conversion to other units using conversion tables included Assists the reader to understand organic and inorganic compounds along with their structures including isomers enantiomers and congeners of organic compounds Provides a quick and easy access to basic chemical concepts and specific examples of solved problems Ideal sidekick for students who are non chemistry majors taking intro college chemistry needing clear concise explanations This concise user friendly review of general and organic chemistry with environmental applications will be of interest to all disciplines and backgrounds *The Chemical News and Journal of Industrial Science* William Crookes, James H. Gardiner, Gerald Druce, H. W. Blood-Ryan, 1896 [The Journal of Industrial and Engineering Chemistry](#), 1914 **Oswaal CBSE Sample Question Papers Physics, Chemistry, Mathematics, English Core Class 11 (Set of 4 Books) For 2025 Exam** Oswaal Editorial Board, 2024-08-27 Description of the product This product covers the following Fresh Relevant with the Latest Typologies of Questions Score Boosting Insight with 450 Questions 250 Concepts approx Insider Tips Techniques with On Tips Notes Mind Maps Mnemonics Exam Ready to Practice with 5 Solved 5 Self Assessment Papers [Physical Chemistry](#) Peter Atkins, Julio de Paula, 2002 New edition of the overwhelmingly favorite text for the physical chemistry course **The Electrical Journal**, 1911 *Professional Engineer*, 1985 **The Chemical Trade Journal and Chemical Engineer**, 1911

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