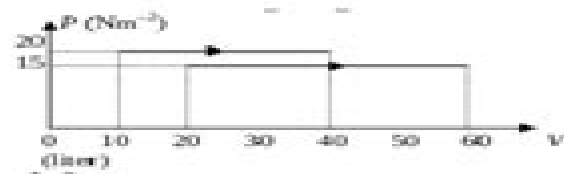


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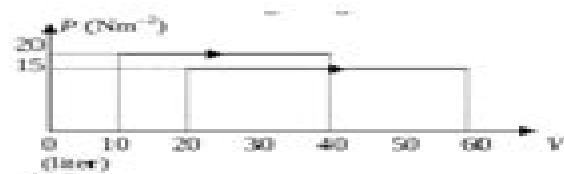


Thermodynamics – problems and solutions

The first law of thermodynamics

1. Based on graph P - V below, what is the ratio of the work done by the gas in the process I, to the work done by the gas in the process II?

Known :



Process 1 :

Pressure (P) = 20 N/m^2

Initial volume (V_1) = $10 \text{ liter} = 10 \text{ dm}^3 = 10 \times 10^{-3} \text{ m}^3$

Final volume (V_2) = $40 \text{ liter} = 40 \text{ dm}^3 = 40 \times 10^{-3} \text{ m}^3$

Process 2 :

Process (P) = 15 N/m^2

Initial volume (V_1) = $20 \text{ liter} = 20 \text{ dm}^3 = 20 \times 10^{-3} \text{ m}^3$

Final volume (V_2) = $60 \text{ liter} = 60 \text{ dm}^3 = 60 \times 10^{-3} \text{ m}^3$

Wanted : The ratio of the work done by gas

Solution :

Problems And Solutions In Thermodynamics

Ryogo Kubo



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Michael J. Moran, Howard N. Shapiro, Daisie D. Boettner, Margaret B. Bailey, 2010-12-07 This leading text in the field maintains its engaging readable style while presenting a broader range of applications that motivate engineers to learn the core thermodynamics concepts Two new coauthors help update the material and integrate engaging new problems Throughout the chapters they focus on the relevance of thermodynamics to modern engineering problems Many relevant engineering based situations are also presented to help engineers model and solve these problems Problems on Statistical Mechanics D.A.R Dalvit, J Frastai, Ian Lawrie, 1999-01-01 A thorough understanding of statistical mechanics depends strongly on the insights and manipulative skills that are acquired through the solving of problems Problems on Statistical Mechanics provides over 120 problems with model solutions illustrating both basic principles and applications that range from solid state physics to cosmology An introductory chapter provides a summary of the basic concepts and results that are needed to tackle the problems and also serves to establish the notation that is used throughout the book The problems themselves occupy five chapters progressing from the simpler aspects of thermodynamics and equilibrium statistical ensembles to the more challenging ideas associated with strongly interacting systems and nonequilibrium processes Comprehensive solutions to all of the problems are designed to illustrate efficient and elegant problem solving techniques Where appropriate the authors incorporate extended discussions of the points of principle that arise in the course of the solutions The appendix provides useful mathematical formulae **Thermodynamics** Ryogo Kubo, 1976

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

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