

Chapter 12
Thermodynamics

1 Marks Questions

1. If a air in a cylinder is suddenly compressed by a piston. What happens to the pressure of air?

Ans. Since the sudden compression causes heating and rise in temperature and if the piston is maintained at same position then the pressure falls as temperature decreases.

2. What is the ratio of final volume to initial volume if the gas is compressed adiabatically till its temperature is doubled?

Ans. Since for an adiabatic process,

$$PV^\gamma = \text{constant}$$

Since $PV = RT$

$$P = \frac{RT}{V}$$

$$\text{So, } \frac{RT}{V} V^\gamma = \text{constant}$$

Or $TV^{\gamma-1} = \text{constant}$ T_1, V_1 = Initial temperature and Initial Volume

$\therefore T_1 V_1^{\gamma-1} = T_2 V_2^{\gamma-1}$ T_2, V_2 = Final temperature and Final volume.

$$\frac{V_2}{V_1} = \left(\frac{T_1}{T_2} \right)^{\frac{1}{\gamma-1}}$$

Since $T_2 = 2 T_1$ (Given)

$$\frac{V_2}{V_1} = \frac{1}{2}$$

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Comprehensive Physics for AIEEE Prof Narinder Kumar, 2019

Physical Chemistry of Polymer Solutions K.

Kamide, T. Dobashi, 2000-10-16 This book is mainly concerned with building a narrow but secure ladder which polymer chemists or engineers can climb from the primary level to an advanced level without great difficulty but by no means easily either This book describes some fundamentally important topics carefully chosen covering subjects from thermodynamics to molecular weight and its distribution effects For help in self education the book adopts a Questions and Answers format The mathematical derivation of each equation is shown in detail For further reading some original references are also given Numerous physical properties of polymer solutions are known to be significantly different from those of low molecular weight solutions The most probable explanation of this obvious discrepancy is the large molar volume ratio of solute to solvent together with the large number of consecutive segments that constitute each single molecule of the polymer chains present as solute Thorough understanding of the physical chemistry of polymer solutions requires some prior mathematical background in its students In the original literature detailed mathematical derivations of the equations are universally omitted for the sake of space saving and simplicity In textbooks of polymer science only extremely rough schemes of the theories and then the final equations are shown As a consequence the student cannot learn unaided the details of the theory in which he or she is interested from the existing textbooks however without a full understanding of the theory one cannot analyze actual experimental data to obtain more basic and realistic physical quantities In particular if one intends to apply the theories in industry accurate understanding and ability to modify the theory are essential

Fundamental Solutions for Differential Operators and Applications Prem Kythe, 2012-12-06 Overview Many problems in mathematical physics and applied mathematics can be reduced to boundary value problems for differential and in some cases integrodifferential equations These equations are solved by using methods from the theory of ordinary and partial differential equations variational calculus operational calculus function theory functional analysis probability theory numerical analysis and computational techniques Mathematical models of quantum physics require new areas such as generalized functions theory of distributions functions of several complex variables and topological and algebraic methods The main purpose of this book is to provide a self contained and systematic introduction to just one aspect of analysis which deals with the theory of fundamental solutions for differential operators and their applications to boundary value problems of mathematical physics applied mathematics and engineering with the related applicable and computational features The subject matter of this book has its own deep rooted theoretical importance since it is related to Green's functions which are associated with most boundary value problems The application of fundamental solutions to a recently developed area of boundary element methods has provided a distinct advantage in that an integral equation representation of a boundary value problem is often more easily solved by numerical methods than a differential equation with specified boundary and initial conditions

This situation makes the subject more attractive to those whose interest is primarily in numerical methods

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