

Solution

Most students did fine on this. The biggest problem was the chart, where the relative positions of the two states (relative to the critical point as well as each other) were often mis-identified.

For part a), we turn to Table B.1.2 and find that at 300 kPa, $v_f = 0.001073 \text{ m}^3/\text{kg}$ and $v_g = 0.60582 \text{ m}^3/\text{kg}$. Thus $v_f < v < v_g$, and the water is in a two-phase mixture state, with

$$T = \boxed{133.55^\circ\text{C}}$$

For part b), we turn to Table B.1.3. Unfortunately, there are no values at the precise values of T and P , so we must do a double interpolation. There is more than one way to do this, but we will focus here on one way. First, let us estimate v at $T = 410^\circ\text{C}$ and 500°C at two nearby pressures. At $P = 1400 \text{ kPa}$, we get

$$v = \left(0.21780 \frac{\text{m}^3}{\text{kg}} \right) + \frac{\left(0.25215 \frac{\text{m}^3}{\text{kg}} - 0.21780 \frac{\text{m}^3}{\text{kg}} \right) (410^\circ\text{C} - 400^\circ\text{C})}{500^\circ\text{C} - 400^\circ\text{C}} = 0.221235 \frac{\text{m}^3}{\text{kg}}.$$

At $P = 1600 \text{ kPa}$, we get

$$v = \left(0.19005 \frac{\text{m}^3}{\text{kg}} \right) + \frac{\left(0.22029 \frac{\text{m}^3}{\text{kg}} - 0.19005 \frac{\text{m}^3}{\text{kg}} \right) (410^\circ\text{C} - 400^\circ\text{C})}{500^\circ\text{C} - 400^\circ\text{C}} = 0.193074 \frac{\text{m}^3}{\text{kg}}.$$

Then at our actual pressure of $P = 1500 \text{ kPa}$, we can simply average, which amounts to a linear interpolation, to get

$$v = \frac{0.221235 \frac{\text{m}^3}{\text{kg}} + 0.193074 \frac{\text{m}^3}{\text{kg}}}{2} = \boxed{0.207155 \frac{\text{m}^3}{\text{kg}}}$$

A plot is given in Fig. 1

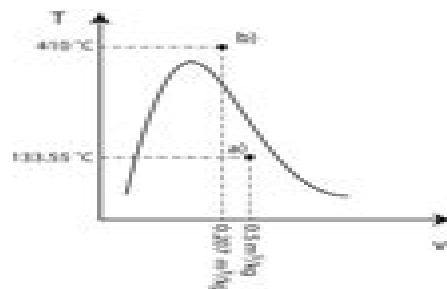


Figure 1: $T - v$ diagram with two appropriate points labeled.

3. (40) A cylinder/piston assembly, see Fig. 2, contains 0.5 kg of air, modeled as an ideal gas, at 100 kPa and volume 0.48 m³. It is heated so that its volume doubles. Atmospheric pressure is 100 kPa, and the cylinder cross sectional area is 0.06 m². The piston has a mass of 184 kg. Gravitational acceleration is 9.8 m/s².

Thermodynamics Exam Solutions

S C. Singhal



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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

Problems and Solutions in Engineering Thermodynamics S C. Singhal, 2009-02-01

Fundamentals of Engineering

Thermodynamics 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

Thermodynamics

Sanford Klein, Gregory Nellis, 2011-10-10 This book differs from other thermodynamics texts in its objective which is to provide engineers with the concepts tools and experience needed to solve practical real world energy problems The presentation integrates computer tools such as EES with thermodynamic concepts to allow engineering students and practising engineers to solve problems they would otherwise not be able to solve The use of examples solved and explained in detail and supported with property diagrams that are drawn to scale is ubiquitous in this textbook The examples are not trivial drill problems but rather complex and timely real world problems that are of interest by themselves As with the presentation the solutions to these examples are complete and do not skip steps Similarly the book includes numerous end of chapter problems both typeset and online Most of these problems are more detailed than those found in other thermodynamics textbooks The supplements include complete solutions to all exercises software downloads and additional content on selected topics These are available on the book's website www.cambridge.org/KleinandNellis

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

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300 Creative Physics Problems with Solutions Laszlo Holics, 2011 This collection of exercises compiled for talented high school students encourages creativity and a deeper understanding of ideas when solving physics problems Described as far beyond high school level this book grew out of the idea that teaching should not aim for the merely routine but challenge pupils and stretch their ability through creativity and thorough comprehension of ideas

Thermodynamics in Earth and Planetary Sciences Jibamitra Ganguly, 2009-06-29 Based on a university course this book provides an exposition of a large spectrum of geological geochemical and geophysical problems that are amenable to thermodynamic analysis It also includes selected problems in planetary sciences relationships between thermodynamics and microscopic properties particle size effects methods of approximation of thermodynamic properties of minerals and some kinetic ramifications of entropy production The textbook will enable graduate students and researchers alike to develop an appreciation of the fundamental principles of thermodynamics and their wide ranging applications to natural processes and systems

Boundary and Eigenvalue Problems in Mathematical Physics Hans Sagan, 2012-04-26 Well known text uses a few basic concepts to solve such problems as the vibrating string vibrating membrane and heat conduction Problems and solutions 31 illustrations

Extended Irreversible Thermodynamics David Jou, Georgy Lebon, José Casas-Vázquez, 2010-09-16 The fast progress in many areas of research related to non equilibrium thermodynamics has prompted us to write a fourth edition of this book Like in the previous editions our main concern is to open the subject to the widest audience including students teachers and researchers in physics chemistry engineering biology and materials sciences Our objective is to present a general view on several open problems arising in non equilibrium situations and to afford a wide perspective of applications illustrating their practical outcomes and consequences A better comprehension of the foundations is generally correlated to an increase of the range of applications implying mutual feedback and cross fertilization Truly

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Thermodynamics William C. Reynolds, Piero Colonna, 2018-04-30 This concise text provides an essential treatment of thermodynamics and a discussion of the basic principles built on an intuitive description of the microscopic behavior of matter. Aimed at a range of courses in mechanical and aerospace engineering, the presentation explains the foundations valid at the macroscopic level in relation to what happens at the microscopic level relying on intuitive and visual explanations which are presented with engaging cases. With ad hoc real word examples related also to current and future renewable energy conversion technologies and two well known programs used for thermodynamic calculations FluidProp and StanJan, this text provides students with a rich and engaging learning experience.

Introduction to Chemical Engineering & Thermodynamics Mr. Rohit Manglik, 2023-07-23 Introduces chemical engineering basics, thermodynamic laws and applications in process design.

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