



Example 4.5

Steam at 1 MPa, 600°C, expands in a turbine to 0.01 MPa. If the process is isentropic, find the final temperature, the final enthalpy of the steam, and the turbine work.

Solution:

mass balance: $\dot{m}_1 = \dot{m}_2 = \dot{m}$

energy balance

$$\dot{E}_{in} = \dot{E}_{out}$$

$$\dot{m}_1 h_1 = \dot{m}_2 h_2 + \dot{W}_{out}$$

$$\dot{W}_{out} = \dot{m} (h_1 - h_2)$$

State 1

$$\left. \begin{array}{l} P_1 = 1 \text{ MPa} \\ T_1 = 600^\circ \text{C} \end{array} \right\} \begin{array}{l} \text{sup erheated} \\ h_1 = 3698.6 \frac{\text{kJ}}{\text{kg}} \\ s_1 = 8.0311 \frac{\text{kJ}}{\text{kg}\cdot\text{K}} \end{array}$$

Thermodynamics Problems And Solutions

Robert T. Balmer



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Thermodynamics Problem Solver The Editors of REA, Ralph Pike, 2013-01-01 REA's Thermodynamics Problem Solver Each Problem Solver is an insightful and essential study and solution guide chock full of clear concise problem solving gems Answers to all of your questions can be found in one convenient source from one of the most trusted names in reference solution guides More useful more practical and more informative these study aids are the best review books and textbook companions available They're perfect for undergraduate and graduate studies This highly useful reference provides thorough coverage of pressure work and heat energy entropy first and second laws ideal gas processes vapor refrigeration cycles mixtures and solutions For students in engineering physics and chemistry *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 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 *The Thermodynamics Problem Solver* Max Fogiel, 1984 REA's Thermodynamics Problem Solver Each Problem Solver is an insightful and essential study and solution guide chock full of clear concise problem solving gems Answers to all of your questions can be found in one convenient source from one of the most trusted names in reference solution guides More useful more practical and more informative these study aids are the best review books and textbook companions available They're perfect for undergraduate and graduate studies This highly useful reference provides thorough coverage of pressure work and heat energy entropy first and second laws ideal gas processes vapor refrigeration cycles mixtures and solutions For students in engineering physics and chemistry **Solutions Manual for Quanta, Matter and Change** Peter Atkins, Julio

dePaula, Ron Friedman, 2008-12-15 **Modern Engineering Thermodynamics - Textbook with Tables Booklet** Robert T. Balmer, 2011-01-03 Modern Engineering Thermodynamics Textbook with Tables Booklet offers a problem solving approach to basic and applied engineering thermodynamics with historical vignettes critical thinking boxes and case studies throughout to help relate abstract concepts to actual engineering applications It also contains applications to modern engineering issues This textbook is designed for use in a standard two semester engineering thermodynamics course sequence with the goal of helping students develop engineering problem solving skills through the use of structured problem solving techniques The first half of the text contains material suitable for a basic Thermodynamics course taken by engineers from all majors The second half of the text is suitable for an Applied Thermodynamics course in mechanical engineering programs The Second Law of Thermodynamics is introduced through a basic entropy concept providing students a more intuitive understanding of this key course topic Property Values are discussed before the First Law of Thermodynamics to ensure students have a firm understanding of property data before using them Over 200 worked examples and more than 1 300 end of chapter problems provide an extensive opportunity to practice solving problems For greater instructor flexibility at exam time thermodynamic tables are provided in a separate accompanying booklet University students in mechanical chemical and general engineering taking a thermodynamics course will find this book extremely helpful Provides the reader with clear presentations of the fundamental principles of basic and applied engineering thermodynamics Helps students develop engineering problem solving skills through the use of structured problem solving techniques Introduces the Second Law of Thermodynamics through a basic entropy concept providing students a more intuitive understanding of this key course topic Covers Property Values before the First Law of Thermodynamics to ensure students have a firm understanding of property data before using them Over 200 worked examples and more than 1 300 end of chapter problems offer students extensive opportunity to practice solving problems Historical Vignettes Critical Thinking boxes and Case Studies throughout the book help relate abstract concepts to actual engineering applications For greater instructor flexibility at exam time thermodynamic tables are provided in a separate accompanying booklet Problems in Thermodynamics and Statistical Physics Peter T. Landsberg, 2014-06-10 Well respected widely used volume presents problems and full solutions related to a wide range of topics in thermodynamics statistical physics statistical mechanics Suitable for undergraduates and graduate students self study reference 1989 edition **Schaum's Outline of Theory and Problems of Thermodynamics for Engineers** Merle C. Potter, Craig W. Somerton, 1995 This package develops the analysis of charge carrying systems leading to an understanding of Maxwell's equations Students can experiment with both advanced graphing and numerical techniques Systems requirements are 80386 80486 PC or compatibles Windows 3.1 or higher 3.5 disk drive 4 MB of RAM and 4 MB of disk space **Physical Chemistry Student Solutions Manual** Charles Trapp, Peter Atkins, Marshall Cady, 2006-08-11 Change 21 The Thermodynamics of Electrical Phenomena in Metals, and A Condensed Collection of Thermodynamic

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Solutions Manual for an Introduction to Thermodynamics Y.V.C. Rao,2005-02 This manual contains the complete solution for all the 505 chapter end problems in the textbook An Introduction to Thermodynamics and will serve as a handy reference to teachers as well as students The data presented in the form of tables and charts in the main textbook are made use of in this manual for solving the problems *Problems and Solutions in Engineering Thermodynamics* S C. Singhal,2009-02-01 Thermodynamics Ryōgo Kubo,1968 **Thermodynamics of Materials** John B. Hudson,1996
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