

Thermodynamics - Example Problems

Problems and Solutions

1 Examining a Power Plant

Consider a power plant. At point 1 the working gas has a temperature of $T = 25^\circ\text{C}$. The pressure is 1bar and the mass flow is $\dot{m} = 2\text{kg/s}$. After point 1, the air enters a compressor, at which the pressure is increased to 6 bar. (This is point 2.) After this, the flow is heated to $T_3 = 700^\circ\text{C}$. (This is stage 3.) Afterwards, the flow goes through a turbine, at which the pressure is decreased to 1bar again. (This is stage 4.) The flow is then cooled to $T_1 = 25^\circ\text{C}$. We're now back in stage 1.

We assume that:

1. air behaves like a thermally and calorically perfect gas with $C_p = 1004\text{J/kg K}$, $R = 287\text{J/kg K}$ and $\gamma = 1.4$.
2. the isentropic efficiency of the compressor is 0.88.
3. the polytropic efficiency of the turbine is 0.85.

Answer the following questions.

1. Depict the evolution of the cycle in the $T - s$ plane.
2. Determine the net power.
3. Determine the heat received from the hot source.
4. Determine the thermal efficiency of the power plant.
5. Determine the Carnot efficiency associated with the present power plant and compare it with the previous result.
6. Verify the first principle.

1 Solution

1. Let's draw the $T - s$ graph. We start by drawing two lines of constant pressure. (This can be seen in the graph below.)

We now start at point 1. At this point the pressure and temperature are low. When we go to point 2, we don't go straight up, since the process is not isentropic. Instead, we go up and slightly right as well, until we reach the line $p = 6\text{bar}$. We then have found point 2.

The heating takes place under constant pressure. So from point 2 to point 3 we stay on the isobaric line $p = 6\text{bar}$. This goes on until we reach $T = 973\text{K}$. This is the position of point 3.

The turbine isn't isentropic either. So from point 3 we don't go straight down. Instead, we go down and a bit to the right as well, until we reach the line $p = 1\text{bar}$. This is point 4.

From point 4 we return to point 1. Since the cooling occurs at constant pressure, we do this without leaving the line $p = 1\text{bar}$.

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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

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

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