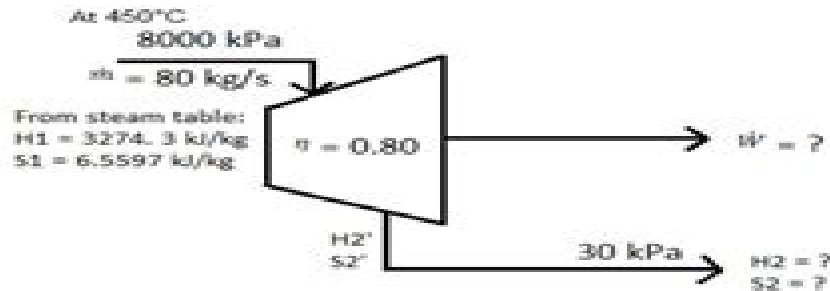


Introduction to Chemical Engineering Thermodynamics
Problem Set

1. A turbine operates adiabatically with superheated steam entering at 450°C and 8,000 kPa with a mass flowrate of 80 kg/s. The exhaust pressure is 30 kPa and the turbine efficiency is 0.80. Determine the power output of the turbine and the enthalpy and entropy of the exhaust steam.

Given:



Required:

- \dot{W} , power output of the turbine
- H_2 , enthalpy of exhaust stream
- S_2 , entropy of exhaust stream

Solution:

From steam table under superheated steam, Table F.2, for inlet conditions:

$$H_1 = 3274.3 \frac{\text{kJ}}{\text{kg}}$$

$$S_1 = 6.5597 \frac{\text{kJ}}{\text{kg} \cdot \text{K}}$$

For discharge conditions:

$$H_2^L = 289.302 \frac{\text{kJ}}{\text{kg}}, H_2^V = 2625.4 \frac{\text{kJ}}{\text{kg}}$$

$$S_2^L = 0.9441 \frac{\text{kJ}}{\text{kg} \cdot \text{K}}, S_2^V = 7.7695 \frac{\text{kJ}}{\text{kg} \cdot \text{K}}$$

If the expansion at 30 kPa is isentropic, then: $S_2' = S_1 = 6.5597 \frac{\text{kJ}}{\text{kg} \cdot \text{K}}$. Steam with this entropy at 10 kPa is wet, yielding the equation:

$$S_2' = S_2^L + x_2'(S_2^V - S_2^L)$$

Substituting the values:

$$6.5597 \frac{\text{kJ}}{\text{kg} \cdot \text{K}} = 0.9441 \frac{\text{kJ}}{\text{kg} \cdot \text{K}} + x_2' \left(7.7695 \frac{\text{kJ}}{\text{kg} \cdot \text{K}} - 0.9441 \frac{\text{kJ}}{\text{kg} \cdot \text{K}} \right)$$

$$x_2' = 0.8228$$

This is the quality (fraction vapor) of the discharge stream at point 2'. The enthalpy H_2' is also given by the equation:

$$H_2' = H_2^L + x_2'(H_2^V - H_2^L)$$

Thus,

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Robert S. Brodkey, Harry C. Hershey



Chemical Engineering Thermodynamics Solved Problems Manual:

Solutions Manual For Chemical Engineering Thermodynamics Y. V. C. Rao, 1998 This book is a very useful reference that contains worked out solutions for all the exercise problems in the book *Chemical Engineering Thermodynamics* by the same author Step by step solutions to all exercise problems are provided and solutions are explained with detailed and extensive illustrations It will come in handy for all teachers and users of *Chemical Engineering Thermodynamics* *Chemical Engineering Thermodynamics* AHUJA, PRADEEP, 2008-12 This book offers a full account of thermodynamic systems in chemical engineering It provides a solid understanding of the basic concepts of the laws of thermodynamics as well as their applications with a thorough discussion of phase and chemical reaction equilibria At the outset the text explains the various key terms of thermodynamics with suitable examples and then thoroughly deals with the virial and cubic equations of state by showing the P V T pressure molar volume and temperature relation of fluids It elaborates on the first and second laws of thermodynamics and their applications with the help of numerous engineering examples The text further discusses the concepts of exergy standard property changes of chemical reactions thermodynamic property relations and fugacity The book also includes detailed discussions on residual and excess properties of mixtures various activity coefficient models local composition models and group contribution methods In addition the text focuses on vapour liquid and other phase equilibrium calculations and analyzes chemical reaction equilibria and adiabatic reaction temperature for systems with complete and incomplete conversion of reactants Key Features Includes a large number of fully worked out examples to help students master the concepts discussed Provides well graded problems with answers at the end of each chapter to test and foster students conceptual understanding of the subject The total number of solved examples and end chapter exercises in the book are over 600 Contains chapter summaries that review the major concepts covered The book is primarily designed for the undergraduate students of chemical engineering and its related disciplines such as petroleum engineering and polymer engineering It can also be useful to professionals The Solution Manual containing the complete worked out solutions to chapter end exercises and problems is available for instructors *Introduction to Chemical Engineering Thermodynamics* H. C. Van Ness, 1987 *Introduction to Chemical Engineering Thermodynamics* 6 e presents comprehensive coverage of the subject of thermodynamics from a chemical engineering viewpoint The text provides a thorough exposition of the principles of thermodynamics and details their application to chemical processes The chapters are written in a clear logically organized manner and contain an abundance of realistic problems examples and illustrations to help students understand complex concepts New ideas terms and symbols constantly challenge the readers to think and encourage them to apply this fundamental body of knowledge to the solution of practical problems The comprehensive nature of this book makes it a useful reference both in graduate courses and for professional practice The sixth edition continues to be an excellent tool for teaching the subject of chemical engineering thermodynamics to undergraduate students *Solutions manual* Richard E.

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