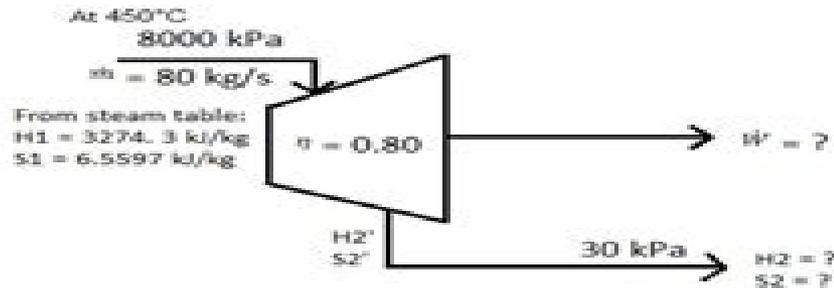


Introduction to Chemical Engineering Thermodynamics  
Problem Set

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:  $S_2^L = S_1 = 6.5597 \frac{\text{kJ}}{\text{kg} \cdot \text{K}}$ . Steam with this entropy at 10 kPa is wet, yielding the equation:

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

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  $H_2^L$  is also given by the equation:

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

Thus,

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**Stanley I. Sandler**



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**Chemical Engineering Thermodynamics Through Solved Problems** G. L. Pandey, J. L. Chaudhri, 1988 Chemical Engineering Thermodynamics G. N. Pande, J. L. Chaudhri, 2008 Chemical and Engineering Thermodynamics Stanley I. Sandler, 1989 A revised edition of the well received thermodynamics text this work retains the thorough coverage and excellent organization that made the first edition so popular Now incorporates industrially relevant microcomputer programs with which readers can perform sophisticated thermodynamic calculations including calculations of the type they will encounter in the lab and in industry Also provides a unified treatment of phase equilibria Emphasis is on analysis and prediction of liquid liquid and vapor liquid equilibria solubility of gases and solids in liquids solubility of liquids and solids in gases and supercritical fluids freezing point depressions and osmotic equilibria as well as traditional vapor liquid and chemical reaction equilibria Contains many new illustrations and exercises

**Fundamentals of Chemical Engineering Thermodynamics** Themis Matsoukas, 2013 Fundamentals of Chemical Engineering Thermodynamics is the clearest and most well organized introduction to thermodynamics theory and calculations for all chemical engineering undergraduates This brand new text makes thermodynamics far easier to teach and learn Drawing on his award winning courses at Penn State Dr Themis Matsoukas organizes the text for more effective learning focuses on why as well as how offers imagery that helps students conceptualize the equations and illuminates thermodynamics with relevant examples from within and beyond the chemical engineering discipline Matsoukas presents solved problems in every chapter ranging from basic calculations to realistic safety and environmental applications

**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

**Engineering and Chemical Thermodynamics** Milo D. Koretsky, 2004 Designed to support the way you learn Whether you learn best by applying knowledge assimilating information through visuals working equations or reading explanations of concepts Milo Koretsky s Engineering and Chemical Thermodynamics provides the support you need to develop a deeper and more complete understanding of thermodynamics and its application to real world problems Highlights An integrated presentation of molecular concepts with thermodynamic principles provides greater access to the material than mathematical derivations alone Learning objectives and chapter summaries are organized from the most significant concepts down Schematic presentations of key concepts help visual learners End of chapter problems promote real synthesis and conceptual understanding Questions about key points and examples provide opportunities for reflection Coverage of equilibrium in the solid phase brings you up to speed on this increasingly important topic ThermoSolver software solve complex problems quickly and easily Improve your ability to solve problems and understand key

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Chemical, Biochemical, and Engineering Thermodynamics Stanley I. Sandler, 2017-04-24 In this newly revised 5th Edition of *Chemical and Engineering Thermodynamics* Sandler presents a modern applied approach to chemical thermodynamics and provides sufficient detail to develop a solid understanding of the key principles in the field The text confronts current information on environmental and safety issues and how chemical engineering principles apply in biochemical engineering bio technology polymers and solid state processing This book is appropriate for the undergraduate and graduate level courses 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

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**Numerical Problems in Thermodynamics and Kinetics of Chemical Engineering Processes** Dr. Stanisław Wroński, Ryszard Pohorecki, Jacek Siwiński, 1998-01-01 This book was prepared in conjunction with the forthcoming book by the same authors Thermodynamics and Kinetics of Chemical Engineering Processes Both books were conceived as links between basic subjects such as mathematics physics physical chemistry and fluid mechanics and process calculations forming the final stage of chemical engineering education An understanding of the underlying principles and methods of solution is emphasized rather than purely computational skills

*A Text Book of Engineering Thermodynamics* John Joseph Flather, 1915

**Catalogue for the Academic Year** Naval Postgraduate School (U.S.), 1955

**Chemical Engineering Thermodynamics** Thomas E. Daubert, 1985

Introduction to Chemical Engineering Thermodynamics Joseph Mauk Smith, Hendrick C. Van Ness, Michael M. Abbott, 1996 Introduction to Chemical Engineering Thermodynamics Fifth Edition presents a thorough exposition of the principles of thermodynamics and details their application to chemical processes Newly revised and completely up to date this best selling book also equips the reader with an adequate foundation for subsequent self instruction Learner friendly the fifth edition of Introduction to Chemical Engineering Thermodynamics includes over 115 worked examples as well as 8 helpful appendices This classic textbook is written not only for students but also for practicing engineers

**Thermodynamics for the Practicing Engineer** Louis Theodore, Francesco Ricci, Timothy Vanvliet, 2011-11-30 Enables you to easily advance from thermodynamics principles to applications Thermodynamics for the Practicing Engineer as the title suggests is written for all practicing engineers and anyone studying to become one Its focus therefore is on applications of thermodynamics addressing both technical and pragmatic problems in the field Readers are provided a solid base in thermodynamics theory however the text is mostly dedicated to demonstrating how theory is applied to solve real world problems This text s four parts enable readers to easily gain a foundation in basic principles and then learn how to apply them in practice Part One Introduction Sets forth the basic principles of thermodynamics reviewing such topics as units and dimensions conservation laws gas laws and the second law of thermodynamics Part Two Enthalpy Effects Examines sensible

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**Announcement of the Course in Chemical Engineering, and of the Graduate Fellowships in Gas Engineering, Metallurgy, Paint and Varnish Manufacture, Pulp and Paper Manufacture**

University of Michigan. Department of Chemical Engineering,1916

**General Catalogue** Massachusetts Institute of Technology,1930

**Thermodynamics and Heat Power, Ninth Edition** Irving Granet,Jorge Alvarado,Maurice

Bluestein,2020-11-05 The ninth edition of Thermodynamics and Heat Power contains a revised sequence of thermodynamics concepts including physical properties processes and energy systems to enable the attainment of learning outcomes by Engineering and Engineering Technology students taking an introductory course in thermodynamics Built around an easily understandable approach this updated text focuses on thermodynamics fundamentals and explores renewable energy generation IC engines power plants HVAC and applied heat transfer Energy heat and work are examined in relation to thermodynamics cycles and the effects of fluid properties on system performance are explained Numerous step by step examples and problems make this text ideal for undergraduate students This new edition Introduces physics based mathematical formulations and examples in a way that enables problem solving Contains extensive learning features within each chapter and basic computational exercises for in class and laboratory activities Includes a straightforward review of applicable calculus concepts Uses everyday examples to foster a better understanding of thermal science and engineering concepts This book is suitable for undergraduate students in engineering and engineering technology

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