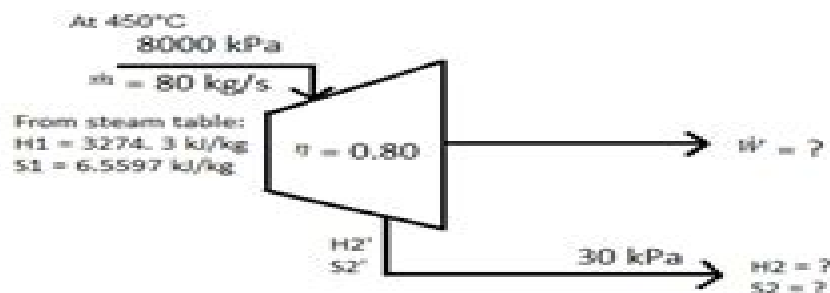


Introduction to Chemical Engineering Thermodynamics  
Problem Set

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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**Problems and Solutions** Dilip K. Das, Rajaram K. Prabhudesai, 2003-09-18 This is a review book for people planning to take the PE exam in Chemical Engineering Prepared specifically for the exam used in all 50 states It features 188 new PE problems with detailed step by step solutions The book covers all topics on the exam and includes easy to use tables charts and formulas It is an ideal desk Companion to DAS s Chemical Engineer License Review It includes sixteen chapters and a short PE sample exam as well as complete references and an index Chapters include the following topical areas material and energy balances fluid dynamics heat transfer evaporation distillation absorption leaching liq liq extraction psychrometry and humidification drying filtration thermodynamics chemical kinetics process control mass transfer and plant safety The ideal study guide this book brings all elements of professional problem solving together in one BIG BOOK Ideal desk reference Answers hundreds of the most frequently asked questions The first truly practical no nonsense problems and solution book for the difficult PE exam Full step by step solutions are included *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

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A TEXTBOOK OF CHEMICAL ENGINEERING THERMODYNAMICS, SECOND EDITION NARAYANAN, K. V.,2013-01-11 Designed as an undergraduate level textbook in Chemical Engineering this student friendly thoroughly class room tested book now in its second edition continues to provide an in depth analysis of chemical engineering thermodynamics The book has been so organized that it gives comprehensive coverage of basic concepts and applications of the laws of thermodynamics in the initial chapters while the later chapters focus at length on important areas of study falling under the realm of chemical thermodynamics The reader is thus introduced to a thorough analysis of the fundamental laws of thermodynamics as well as their applications to practical situations This is followed by a detailed discussion on relationships among thermodynamic properties and an exhaustive treatment on the thermodynamic properties of solutions The role of phase equilibrium thermodynamics in design analysis and operation of chemical separation methods is also deftly dealt with Finally the chemical reaction equilibria are skillfully explained Besides numerous illustrations the book contains over 200 worked examples over 400 exercise problems all with answers and several objective type questions which enable students to gain an in depth understanding of the concepts and theory discussed The book will also be a useful text for students pursuing courses in chemical engineering related branches such as polymer engineering petroleum engineering and safety and environmental engineering New to This Edition More Example Problems and Exercise Questions in each chapter Updated section on Vapour Liquid Equilibrium in

Chapter 8 to highlight the significance of equations of state approach GATE Questions up to 2012 with answers

*Introductory Chemical Engineering Thermodynamics* J. Richard Elliott, Carl T. Lira, 2011-11 A Practical Up to Date Introduction to Applied Thermodynamics Including Coverage of Process Simulation Models and an Introduction to Biological Systems Introductory Chemical Engineering Thermodynamics Second Edition helps readers master the fundamentals of applied thermodynamics as practiced today with extensive development of molecular perspectives that enables adaptation to fields including biological systems environmental applications and nanotechnology This text is distinctive in making molecular perspectives accessible at the introductory level and connecting properties with practical implications Features of the second edition include Hierarchical instruction with increasing levels of detail Content requiring deeper levels of theory is clearly delineated in separate sections and chapters Early introduction to the overall perspective of composite systems like distillation columns reactive processes and biological systems Learning objectives problem solving strategies for energy balances and phase equilibria chapter summaries and important equations for every chapter Extensive practical examples especially coverage of non ideal mixtures which include water contamination via hydrocarbons polymer blending recycling oxygenated fuels hydrogen bonding osmotic pressure electrolyte solutions zwitterions and biological molecules and other contemporary issues Supporting software in formats for both MATLAB and spreadsheets Online supplemental sections and resources including instructor slides ConcepTests coursecast videos and other useful resources

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

**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

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

**Answers to Problems, Introduction to Chemical Engineering Thermodynamics, Second Edition** Joe Mauk Smith, H. C. Van Ness, 1959

**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

*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

Catalogue for the Academic Year Naval Postgraduate School (U.S.), 1958

**Chemical Engineering Thermodynamics** Barnett Fred Dodge, 1944

**FUNDAMENTALS OF CHEMISTRY - Volume II** Sergio Carrà, 2009-05-05

Fundamentals of Chemistry theme in two volumes is a component of Encyclopedia of Chemical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme is organized into six different topics which represent the main scientific areas History and Fundamentals of Chemistry Chemical Experimentation and Instrumentation Theoretical Approach to Chemistry Chemical Thermodynamics Rates of Chemical Reactions Chemical Synthesis of Substances These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

**Introductory Chemical Engineering Thermodynamics** J. Richard Elliott, Carl T. Lira, 2012 In this book two leading experts and long time instructors thoroughly explain thermodynamics taking the molecular perspective that working engineers require This edition contains extensive new coverage of today's fast growing biochemical engineering applications notably biomass conversion to fuels and chemicals It also presents many new MATLAB examples and tools to complement its previous usage of Excel and other software

*Applied Chemical Engineering Thermodynamics* Dimitrios P. Tassios, 2013-12-19 Applied Chemical Engineering Thermodynamics provides the undergraduate and graduate student of chemical engineering with the basic knowledge the methodology and the references he needs to apply it in industrial practice Thus in addition to the classical topics of the laws of thermodynamics pure component and mixture thermodynamic properties as well as phase and chemical equilibria the reader will find history of thermodynamics energy conservation intermolecular forces and molecular thermodynamics cubic equations of state statistical mechanics A great number of calculated problems with solutions and an appendix with

numerous tables of numbers of practical importance are extremely helpful for applied calculations The computer programs on the included disk help the student to become familiar with the typical methods used in industry for volumetric and vapor liquid equilibria calculations      Chemical Engineering Thermodynamics Stephen A. Newman, 1983

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