

Physics 3.3 First Law of Thermodynamics Exam Questions with Complete Solutions

First Law of Thermodynamics - ANSWER-energy can be transferred and transformed, but it cannot be created or destroyed

the total internal energy of a system is equal to the amount of heat added minus the work done on the system

First Law of Thermodynamics Equation - ANSWER- $\Delta U = Q - W$

Q = heat energy

W = work done on the system

ΔU = change in the system's internal energy

Change in internal energy (equation) - ANSWER- ΔU

decreasing temp = negative

increasing temp = positive

Heat (equation) - ANSWER-heat flows into the system (positive)

heat is lost from the system (negative)

Work (equation) - ANSWER-work is done by the system (expansion) positive

work is done on the system (compression) negative

Heat can be measured by - ANSWER-calorie (cal), nutritional calorie (Cal), British thermal unit (BTU), joule (J)

1 Cal = 10^3 cal = 4184 J = 3.97 BTU

Heat - ANSWER-process of energy transfer between two objects at different temperatures that occurs until two objects come into thermal equilibrium

Specific Heat - ANSWER-the amount of energy required to raise the temperature of 1 gram of a substance by 1 degree Celsius or 1 Kelvin

Specific Heat of Water - ANSWER-1 cal/g $^{\circ}$ K

4.184 J/gC

Thermodynamics Exam Solutions

Sanford Klein, Gregory Nellis



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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

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

Problems and Solutions in Engineering Thermodynamics S C. Singhal, 2009-02-01

Thermodynamics Sanford Klein, Gregory Nellis, 2011-10-10 This book differs from other thermodynamics texts in its objective which is to provide engineers with the concepts tools and experience needed to solve practical real world energy problems The presentation integrates computer tools such as EES with thermodynamic concepts to allow engineering students and practising engineers to solve problems they would otherwise not be able to solve The use of examples solved and explained in detail and supported with property diagrams that are drawn to scale is ubiquitous in this textbook The examples are not trivial drill problems but rather complex and timely real world problems that are of interest by themselves As with the presentation the solutions to these examples are complete and do not skip steps Similarly the book includes numerous end of chapter problems both typeset and online Most of these problems are more detailed than those found in other thermodynamics textbooks The supplements include complete solutions to all exercises software downloads and additional content on selected topics These are available on the book s website www.cambridge.org/KleinandNellis

Chemical Engineering License 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

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Modern Engineering Thermodynamics Robert Balmer, 2011-01-25 Modern Engineering Thermodynamics is designed for use in a standard two semester engineering thermodynamics course sequence 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 text has numerous features that are unique among engineering textbooks including historical vignettes critical thinking boxes and case studies All are designed to bring real engineering applications into a subject that can be somewhat abstract and mathematical Over 200 worked examples and more than 1 300 end of chapter problems provide opportunities to practice solving problems related to concepts in the text 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 Available online testing and assessment component helps students assess their knowledge of the topics Email textbooks elsevier com for details

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Extended Irreversible Thermodynamics David Jou, Georgy Lebon, José Casas-Vázquez, 2010-09-16 The fast progress in many areas of research related to non equilibrium thermodynamics has prompted us to write a fourth edition of this book Like in the previous editions our main concern is to open the subject to the widest audience including students teachers and researchers in physics chemistry engineering biology and materials sciences Our objective is to present a general view on several open problems arising in non equilibrium situations and to afford a wide perspective of applications illustrating their practical outcomes and consequences A better comprehension of the foundations is generally correlated to an increase of the range of applications implying mutual feedback and cross fertilization Truly thermodynamic methods are widely used in many areas of science but surprisingly the active dynamism of thermodynamics as a field on its own is not sufficiently perceived outside a relatively reduced number of specialized researchers Extended irreversible thermodynamics EIT goes beyond the classical formalisms based on the local equilibrium hypothesis it was also referred to in an earlier publication by the authors Lebon et al 1992 as a thermodynamics of the third type as it provides a bridge between classical irreversible thermodynamics and rational thermodynamics enlarging at the same time their respective range of application The salient feature of the theory is that the fluxes are incorporated into the set of basic variables **Thermodynamics** Stephen R. Turns, Laura L. Pauley, 2020-02-27 Fully revised to match the more traditional sequence of course materials this full color second edition presents the basic principles and methods of thermodynamics using a clear and engaging style and a wealth of end of chapter problems It includes five new chapters on topics such as mixtures psychrometry chemical equilibrium and combustion and discussion of the Second Law of Thermodynamics has been expanded and divided into two chapters allowing instructors to introduce the topic using either the cycle analysis in Chapter 6 or the definition of entropy in Chapter 7 Online ancillaries including new LMS testbanks a password protected solutions manual prepared PowerPoint lecture slides instructional videos and figures in electronic format are available at www.cambridge.org/thermo

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