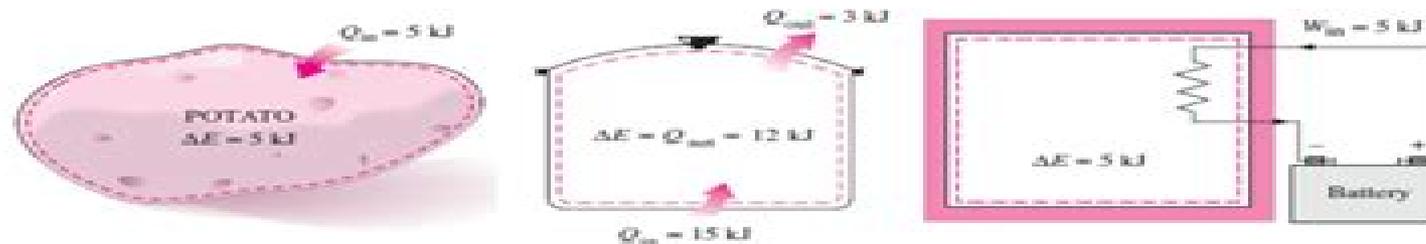


## FIRST LAW OF THERMODYNAMICS

1. Energy can neither be created nor be destroyed; it can only change its form.
2. It is also called "The conservation of energy principle".



## ENERGY BALANCE

The net change (increase or decrease) in the total energy of the system during a process is equal to the difference between the total energy entering and the total energy leaving the system during that process.

$$\left( \begin{array}{c} \text{Total energy} \\ \text{entering the system} \end{array} \right) - \left( \begin{array}{c} \text{Total energy} \\ \text{leaving the system} \end{array} \right) = \left( \begin{array}{c} \text{Change in the total} \\ \text{energy of the system} \end{array} \right)$$

$$E_{in} - E_{out} = \Delta E_{system}$$

The above relation is called "Energy balance".

### Energy change ( $\Delta E_{system}$ )

For a simple compressible system,

$$E = U + KE + PE$$

$$\Delta E = \Delta U + \Delta KE + \Delta PE$$

$$\Delta E = m(u_2 - u_1) + \frac{1}{2} m (V_2^2 - V_1^2) + mg(z_2 - z_1)$$

For a simple compressible stationary system:

$$\Delta KE = \Delta PE = 0$$

$$\Delta E = \Delta U = m(u_2 - u_1)$$

For steady flow process,

$$\Delta E = 0$$

# Fundamentals Of Thermodynamics Solution Chapter 4

**R Bogdan**



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**Student Solutions Manual for Physical Chemistry** C. A. Trapp, Peter Atkins, Julio dePaula, 2009-12-18 With its modern emphasis on the molecular view of physical chemistry its wealth of contemporary applications vivid full color presentation and dynamic new media tools the thoroughly revised new edition is again the most modern most effective full length textbook available for the physical chemistry classroom Available in Split Volumes For maximum flexibility in your physical chemistry course this text is now offered as a traditional text or in two volumes Volume 1 Thermodynamics and Kinetics ISBN 1 4292 3127 0 Volume 2 Quantum Chemistry Spectroscopy and Statistical Thermodynamics ISBN 1 4292 3126 2

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**Principles of Thermodynamics** Jui Sheng Hsieh,1975 For a second course in classical thermodynamics at the senior or first year graduate level

**Physical Chemistry for the Life Sciences Solutions Manual** Maria Bohorquez,2005-07-26 The Solutions Manual is a powerful study aid that contains the complete answers to all the exercises in the text These worked out solutions guide you through each step and help you refine your problem solving skills Used in conjunction with the text the Solutions Manual is one of the best ways to develop a fuller appreciation of chemical principles It can also be used to review material identify problem areas where more study is needed and test yourself before an exam Book jacket

**The Fundamentals of Chemical Thermodynamics** John Alfred Valentine Butler,1928

**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 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

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**Refrigerating Engineering** ,1926 Vols 1 17 include Proceedings of the 10th 24th 1914 28 annual meeting of the society

**Classical Thermodynamics of Nonelectrolyte Solutions** Hendrick C. Van Ness,Michael M. Abbott,1982

**Handbook of Diffusion and Thermal Properties of Polymers and Polymer Solutions** James M. Caruthers,1998 Accompanying computer disk contains procedures needed in order to navigate the various screens for implementation of the different correlative or predictive methods and how to access the experimental base

**Polymer Chemistry and Advanced Materials** Dr. G. Mallikarjun ,Dr. Jakeer Ahemed,2025-09-19 In the final section the book examines biofuels detailing the Polymer Chemistry and Advanced Materials presents a detailed exploration of the principles processes and applications that define modern polymer science The book begins with the fundamentals of polymerization mechanisms including addition condensation and coordination polymerization before moving into the molecular structure configuration and properties that determine polymer behavior Key topics include molecular weight distribution glass transition crystallinity mechanical performance and thermal behavior along with advanced techniques in polymer characterization such as spectroscopy chromatography and microscopy The text also delves into copolymers polymer blends composites and nanostructured materials emphasizing how their tailored architectures lead to

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**Reservoir Engineering Models: Analytical and Numerical Approaches** Turgay Ertekin, Luis F. Ayala, 2018-11-21 Develop build and deploy accurate mathematical models for hydrocarbon reservoirs This practical resource discusses the construction of reservoir models and the implementation of these models in both forward and inverse modes using numerical analytical empirical and artificial intelligence techniques Written by a pair of experts in the field Reservoir Engineering Models Analytical and Numerical Approaches clearly explains the complicated building processes of mathematical models and lays out cutting edge solution protocols Advanced chapters teach the assembly of complex physical processes using principles of physics thermodynamics and mathematics You will learn to optimize decision making processes applicable to the management of field development and extraction activities Coverage includes An introduction to reservoir engineering models Mathematics of reservoir engineering Reservoir engineering fundamentals Hydrocarbon fluid models and thermodynamics Reservoir engineering transport equations Analytical and numerical reservoir engineering solutions Proxy and hybrid models in reservoir engineering

Physics, a Refresher Course Boris Mikhaïlovich I[A]vorskii, 1979

Design Institute for Physical Property Data Theodore B. Selover, 1990 Papers presented at the Session 40 symposium of the 1989 AIChE Annual Meeting in San Francisco and the Session 58 symposium of the 1990 Spring National Meeting in Orlando Session 40 includes an historical overview of how DIPPR came to be Session 58 presents a paper on DIPPR data use in reactive ch

*Semiconductor and Metal Binary Systems* V.M. Glazov, L.M. Pavlova, 1989-06-30 This book is devoted to the fundamentals of the theoretical analysis of phase equilibrium diagrams Phase diagrams are known to play an important role in metallurgy and materials science chemical engineering petroleum refining etc A study of phase diagrams can help in choosing the optimal composition of mixtures and alloys and in determining the appropriate conditions for their thermal treatment as well as in determining the efficiency of such processes as distillation rectification zone refining and controlled crystallization for the separation and purification of materials In spite of this the extensive thermodynamic information which can be extracted from phase diagrams has scarcely been utilized until recently due to the of the analysis of phase equilibria comparatively poorly developed foundations We have attempted to present a general picture of the thermodynamic analysis of phase diagrams and to demonstrate the broad possibilities of this approach in elucidating the nature of the interaction of the components and the structure of the phases This book summarizes research carried out at the Moscow Institute of

Electronic Engineering over the past decade Extensive summaries of published data are also included In the course of our work we have made extensive use of modern computing methods which allowed solutions to be obtained to many problems

*Chemical Engineering Thermodynamics* Jack Winnick,1996-11-29 The aim of this contemporary textbook is to show students that thermodynamics is a useful tool not just a series of theoretical exercises Written in a conversational style the text presents the second law in a totally new manner there is no reliance on statistical arguments instead it is developed as a natural consequence of physical experience Students are not required to write complex iterative computer programs to solve phase equilibrium problems techniques are presented which enable use of readily available math packages The book also explores electrochemical systems such as batteries and fuel cells Included in the extensive amount of examples are those which demonstrate the use of thermodynamics in practical design situations

### **Essentials of Engineering**

**Thermodynamics** Clement Kleinstreuer,2021-03-10 Explore the theories applications and core concepts of thermodynamics This hands on guide lays out the critical thermodynamics concepts rules and governing equations for engineering students and professionals Developed by an experienced academic to reduce information overload in his classroom Essentials of Engineering Thermodynamics Principles and Applications reinforces each topic through concept questions and representative problems with detailed worked out solutions Figures and illustrations throughout tie each subject to the real world You will gain a clear understanding of the laws of thermodynamics that drive our understanding of energy systems and their daily applications Coverage includes Basic thermodynamics concepts Energy transfer modes The first law of thermodynamics Macroscale mass and energy balances Transient closed systems Steady open uniform flow devices The second law of thermodynamics The T s diagram and entropy calculations Exergy or minimizing energy waste Open and closed power cycles Reversed closed cycles

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