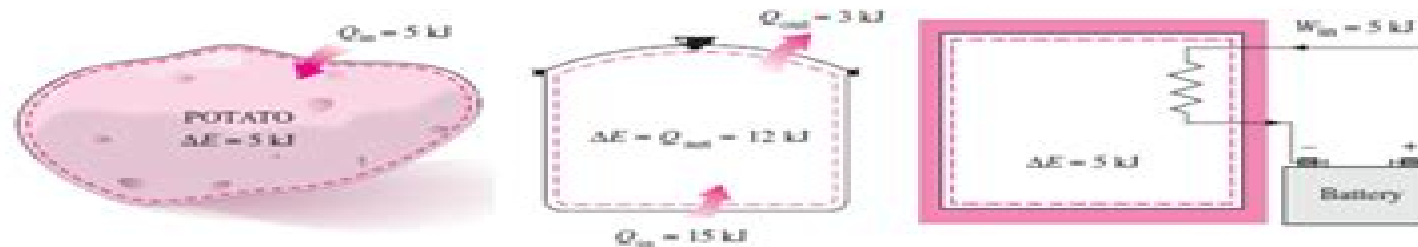


FIRST LAW OF THERMODYNAMICS

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 (ΔE_{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

Turgay Ertekin, Luis F. Ayala



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Physical Chemistry of Polymer Solutions K. Kamide, T. Dobashi, 2000-10-16 This book is mainly concerned with building a narrow but secure ladder which polymer chemists or engineers can climb from the primary level to an advanced level without great difficulty but by no means easily either This book describes some fundamentally important topics carefully chosen covering subjects from thermodynamics to molecular weight and its distribution effects For help in self education the book adopts a Questions and Answers format The mathematical derivation of each equation is shown in detail For further reading some original references are also given Numerous physical properties of polymer solutions are known to be significantly different from those of low molecular weight solutions The most probable explanation of this obvious discrepancy is the large molar volume ratio of solute to solvent together with the large number of consecutive segments that constitute each single molecule of the polymer chains present as solute Thorough understanding of the physical chemistry of polymer solutions requires some prior mathematical background in its students In the original literature detailed mathematical derivations of the equations are universally omitted for the sake of space saving and simplicity In textbooks of polymer science only extremely rough schemes of the theories and then the final equations are shown As a consequence the student cannot learn unaided the details of the theory in which he or she is interested from the existing textbooks however without a full understanding of the theory one cannot analyze actual experimental data to obtain more basic and realistic physical quantities In particular if one intends to apply the theories in industry accurate understanding and ability to modify the theory are essential

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Handbook of Polymer Solution Thermodynamics Ronald P.

Danner, Martin S. High, 2010-09-14 Created for engineers and students working with pure polymers and polymer solutions this handbook provides up to date easy to use methods to obtain specific volumes and phase equilibrium data A comprehensive database for the phase equilibria of a wide range of polymer solvent systems and PVT behavior of pure polymers are given as are accurate predictive techniques using group contributions and readily available pure component data Two computer programs on diskettes are included POLYPROG implements procedures given for prediction and correlation for specific volume of pure polymer liquids and calculation of vapor liquid equilibria VLE of polymer solutions POLYDATA provides an easy method of accessing the data contained in the many databases in the book Both disks require a computer with a math coprocessor This handbook is a valuable resource in the design and operation of many polymer processes such as polymerization devolatilization drying extrusion and heat exchange Special Details Hardcover with Disks Special offer Purchase this book along with X 131 Handbook of Diffusion and Thermal Properties of Polymers and Polymer Solutions and receive a 20 percent discount off the list or member price *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 *Princeton Review MCAT Biochemistry Review, 3rd Edition* The Princeton Review, 2025-11-04 Everything students need to know to succeed on the Biochemistry portions of the MCAT exam Medical College Admission Test including access to 3 full length practice tests With in depth coverage of MCAT biochemistry topics The Princeton Review MCAT Biochemistry Review helps you practice your way to excellence featuring everything you need for a high score In depth content review of MCAT biochemistry topics 3 full length online practice tests with detailed answer explanations and score reports Test taking strategies geared toward biochemistry mastery Bulleted chapter summaries for quick review Full color illustrations diagrams and tables End of chapter drills and explanations plus MCAT style passages and questions 3 scholarly journal articles with exercises to strengthen your critical analysis Extensive reference glossary The Princeton Review MCAT Biochemistry Review covers Biochemistry Strategy Thermodynamics and Kinetics Acid Base Chemistry Amino Acids and Proteins Carbohydrates Carbohydrate Metabolism Lipids Nucleic Acids , *Chemistry (CUET PG NOTES)* Mocktime Publication, Chemistry CUET PG NOTES CUET PG Books PDFs Chapters Topics Study Material Guide Notes CUET PG CUET PG Previous Papers Question Papers Practice Sets Question Bank CUET PG CUET PG Syllabus Exam Pattern Preparation How to Prepare Revision CUET PG **Heat Storage Systems for Buildings** Ibrahim Dincer, Dogan Erdemir, 2021-08-04 Heat Storage Systems for Buildings provides a unique resource for researchers

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