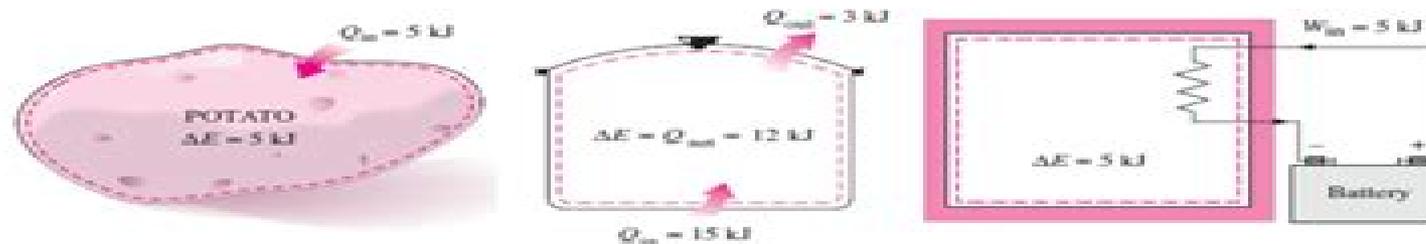


FIRST LAW OF THERMODYNAMICS

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,

$$\Delta E = 0$$

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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

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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 Mikhailovich I[A]vorskii, 1979

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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

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

Engineering Fundamentals for Professional Engineers' Examinations Lloyd M. Polentz, 1979

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