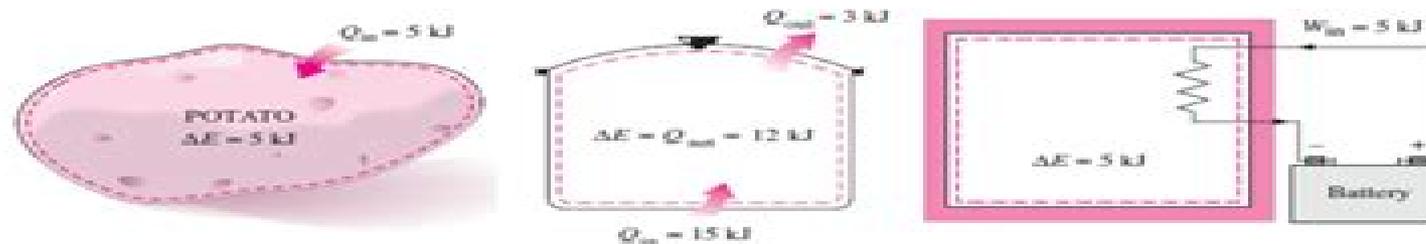


FIRST LAW OF THERMODYNAMICS

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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Turgay Ertekin, Luis F. Ayala



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

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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

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