

Hence, FIRST LAW of THERMODYNAMICS (applied to a closed system)

- The change in internal energy of a closed system is the energy that enters or leaves the system through boundaries as heat or work. i.e.
- $\Delta U = q + w$
 - $\Delta U = U_f - U_i$
 - q – heat applied to system
 - W – work done on system
 - When energy leaves the system, $\Delta U = -ve$ i.e. decrease internal energy
- When energy enter the system, $\Delta U = +ve$ i.e. added to internal energy

Elements Of Applied Thermodynamics

Niranjan D. Chatterjee



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