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Since this is a closed system, the conservation of mass equation yields no useful information, as the mass of the system is constant. However, the conservation of energy (the first law of thermodynamics) is very useful here:  $1 Q 2 ? 1 W$

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$2 = m [ ( u_2^2 - u_1^2 ) + V_2^2 - V_1^2 + g ( Z_2 - Z_1 ) ]$   
system.

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Thermodynamics is considered to be one of the most important parts of our day-to-day life. Whether you are travelling in any vehicle, sitting comfortably in your air-conditioned room, watching television etc, you will notice the applications of thermodynamics almost everywhere directly or indirectly. When Sadi Carnot, the boy considered to be the father of thermodynamics, little did the people ...

*Applications of Thermodynamics Laws. Carnot, Stirling ...*  
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The subject of thermodynamics deals with energy and has long been an essential part of engineering curricula all over the world. Its broad application area ranges from microscopic organisms to common household appliances, transportation

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vehicles, power generation systems, and even philosophy.

*Thermodynamics - Mechanical Engineering - Engineering*  
Thermodynamics is the theoretical foundation for any type of electrochemical concentration (or galvanic) cell. It depicts the fundamental relationship between thermodynamic quantities and electrical quantities; this relationship not only allows determination of thermodynamic properties of materials by accurate electrochemical methods, but also defines the maximum cell voltage of a specific chemical reaction and its dependence on concentration, temperature, and pressure.

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Thermodynamics System: A thermodynamic system is

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defined as a quantity of matter or a region in space upon which attention is concentrated in the analysis of a problem. Before going to move on the definition of Surrounding, Boundary, Universe first considers a system as shown in the figure:

*Thermodynamics system-Closed, Open, Isolated system with*

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Some thermodynamics applications include the design of: air conditioners and refrigerators; turbo chargers and superchargers in automobile engines; steam turbines in power generation plants; jet engines used in aircraft

Zeroth Law of Thermodynamics

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Thermodynamics: Fundamentals and Applications is a 2005 text for a first graduate course in Chemical Engineering. The focus is on macroscopic thermodynamics; discussions of modeling and molecular situations are integrated throughout.

*Thermodynamics: Fundamentals for Applications (Cambridge*

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