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of system and thermodynamic cycles. Below is complete outline of the subject as taught in mechanical engineering undergraduate course. It is compulsory for all mechanical engineers to revise basics of thermodynamics and other courses to stay updated with knowledge of the

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subjects and for a better performance  
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Basic Definitions Thermodynamic  
Property: Any observable or  
measurable characteristic of a system.

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Any mathematical combination of the measurable characteristics of a system Intensive Properties:

Properties which are independent of the size (or mass) of the system • they are not additive ?  $X_{A+B} = X_A + X_B$

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study of and practical application of the successful conversion of heat energy into work energy, a transformation fundamental to the existence of our modern industrial society. The thermodynamic conversion process lies behind the operation of the internal combustion

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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

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conservation of energy (the first law of thermodynamics) is very useful here: 1  
 $Q_2 - W_2 = m [ (u_2 - u_1) + V_2^2 - V_1^2 + g(Z_2 - Z_1) ]$   
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Define thermodynamic system. A thermodynamic system is defined as a quantity of matter or a region in space, on which the analysis of the problem is concentrated. 2. Name the different types of system. 1. Closed system (only energy transfer and no mass transfer) 2. Open system (Both energy

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