

**fundamentals of thermodynamics borgnakke pdf**

In thermodynamics, work performed by a system is the energy transferred by the system to its surroundings, that is fully accounted for solely by macroscopic forces exerted on the system by factors external to it, that is to say, factors in its surroundings. Thermodynamic work is a version of the concept of work in physics.. The external factors may be electromagnetic, gravitational, or ...

**Work (thermodynamics) - Wikipedia**

Background. The second law of thermodynamics states that  $\delta Q_{rev} = T ds$ , where  $\delta Q_{rev}$  is the amount of energy the system gains by heating,  $T$  is the temperature of the system, and  $ds$  is the change in entropy. The equal sign refers to a reversible process, which is an imagined idealized theoretical limit, never actually occurring in physical reality. For an isentropic process, which by definition is reversible, there ...

**Isentropic process - Wikipedia**

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**Coefficiente di prestazione - Wikipedia**

$\dot{Q}_c = \dot{W} + \dot{Q}_h$ .  $\dot{Q}_c$  è l'energia dissipata nel serbatoio a temperatura  $T_c$  per unità di tempo.  $\dot{W}$  è il lavoro prodotto per unità di tempo.  $\dot{Q}_h$  è l'energia estratta dal serbatoio a temperatura  $T_h$  per unità di tempo.  $\eta = \frac{\dot{W}}{\dot{Q}_h}$  è il rendimento.  $\beta = \frac{\dot{Q}_c}{\dot{W}}$  è il coefficiente di prestazione.  $\beta = \frac{T_h}{T_h - T_c}$  per un ciclo di Carnot.

**$\dot{Q}_c = \dot{W} + \dot{Q}_h$  (  $\dot{Q}_c$ ,  $\dot{W}$ ,  $\dot{Q}_h$  ) | [Wikipedia](#)**

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**$\dot{W} = \dot{Q}_h - \dot{Q}_c$   $\eta = \frac{\dot{W}}{\dot{Q}_h} = 1 - \frac{\dot{Q}_c}{\dot{Q}_h}$   $\beta = \frac{\dot{Q}_c}{\dot{W}} = \frac{\dot{Q}_c}{\dot{Q}_h - \dot{Q}_c}$**

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A capacidade calorífica de um corpo é determinada com ajuda de um calorímetro e um termómetro. Um calorímetro simples (veja a figura) consiste num cilindro metálico polido, colocado num outro cilindro metálico sobre cortiça (para isolamento térmico). [5] O cilindro interno é enchido com água ou algum outro líquido de calor específico conhecido.

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