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~~Understanding Second Law of Thermodynamics !The Laws of Thermodynamics, Entropy, and Gibbs Free Energy Basic Concepts of Thermodynamics [Year - 1]~~

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~~The 0th and 1st Laws of Thermodynamics | Doc PhysicsMechanical Engineering Thermodynamics - Lec 10, pt 1 of 2: Entropy Balance 1. Thermodynamics Part 1 Lec 01 Part 1 Introduction To Thermodynamics~~

~~Lec-1 Introduction and Fundamental Concepts~~

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Solution: The pump exit pressure must balance the top pressure plus the column ΔP . The pump inlet pressure provides part of the absolute pressure. Pafter pump = $P_{top} + \Delta P$
 $1 \text{ lbf/s}^2 \Delta P = \rho gh = 62.2 \text{ lbf/ft}^3 \times 32.174 \text{ ft/s}^2 \times (450 + 16) \text{ ft} \times 32.174 \text{ lbf ft E}$

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Solution: We see hot high pressure steam flowing in at state 1 from the steam drum through a flow control (not shown). The steam leaves at a lower pressure to the condenser (heat exchanger) at state 2. A rotating shaft gives a rate of energy (power) to the electric generator set.

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Solution: C.V. Compressor out to ambient. Minimum work in is the reversible work. SSSF, 1 inlet and 2 exit energy Eq.: $w_c = h_1 - h_2 + q_{rev}$ Entropy Eq.: $s_2 = s_1 + \int_1^2 \frac{dq}{T} + s_{gen} = s_1 + q_{rev}/T_0 + 0 \Rightarrow q_{rev} = T_0 (s_2 - s_1)$ $w_{c,min} = h_1 - h_2 + T_0 (s_2 - s_1) = 387.22 - 420.25 + 293.15 \cdot (1.7148 - 1.7665) = -48.19 \text{ kJ/kg}$
Page 4 10-1 CHAPTER 10 The correspondence between the new problem set and the previous 4th edition chapter 8 problem set.

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In Chapter 2, tables of thermodynamic properties are introduced, but only in regard to these measurable properties. Internal energy and enthalpy are introduced in connection with the energy equation and the first law, entropy with the second law, and the Helmholtz and Gibbs functions in the chapter on thermodynamic relations.

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If the total car and driver mass is 1075 kg. Find the necessary force. Solution: Acceleration is the time rate of change of velocity. $ma = \sum F$; $a = dV / dt = (60 \times 1000) / (3600 \times 5) = 3.33 \text{ m/s}^2$ $F_{net} = ma = 1075 \times 3.333 = 3583 \text{ N}$ 2.4 A washing machine has 2 kg of clothes spinning at a rate that generates an acceleration of 24 m/s².

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Solution: $m = \rho V = 110 \text{ kg/m}^3 \times 100\,000 \text{ m}^3 = 11 \times 10^6 \text{ kg}$ Just to put this in perspective a power plant that generates 2000 MW by burning coal would make about 20 million tons of carbon-dioxide a year. That is 2000 times the above mass so it is nearly impossible to store all the carbon-dioxide being produced.

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