

Engineering Thermodynamics Problems And Solutions

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contents: thermodynamics . chapter 01: thermodynamic properties and state of pure substances. chapter 02: work and heat. chapter 03: energy and the first law of thermodynamics. chapter 04: entropy and the second law of thermodynamics. chapter 05: irreversibility and availability

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Engineering Thermodynamics: Chapter-10 Examples. A Carnot vapor refrigeration cycle is used to maintain a cold region at 0 o F where the ambient temperature is 75 o F. Refrigerant R-134a enters the condenser as saturated vapor at 100 lbf/in² and leaves as saturated liquid at the same pressure. The evaporator pressure is 20 lbf/in². The mass flow rate of refrigerant is 12 lbm/s.

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Chapter-10

Engineering Thermodynamics: Chapter-5 Problems. A rigid tank of volume 10 m^3 contains superheated steam at 1 MPa and 400°C . Due to heat loss to the outside atmosphere, the tank gradually cools down to the atmospheric temperature of 25°C . Determine (a) the heat transfer and (b) the entropy generated in the system's universe during this cooling process.

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1. INTRODUCTION Problem 1.3 Solution a) The mean velocity is $v_{ND} = 8k_B T / m$ where $k_B = 1.38 \times 10^{-23} \text{ J/K}$, $T = 273.16 \text{ K}$. The mass of the water molecule is $m = 18 \times 10^{-27} \text{ kg}$. $v_{ND} = 6.022 \times 10^{23} \text{ mol}^{-1} \times 1.38 \times 10^{-23} \text{ J/K} \times 273.16 \text{ K} / 18 \times 10^{-27} \text{ kg} = 1026 \text{ m/s}$. The mean velocity is

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