

carnot cycle problems and pdf

Carnot Cycle Quiz Solution 1. Solution $P_1 = 100 \text{ kPa}$, $T_1 = 25 \text{ }^\circ\text{C}$, $V_1 = 0.01 \text{ m}^3$, The process 1-2 is an isothermal process. $T_1 = T_2 = 25 \text{ }^\circ\text{C}$ $V_1 = 0.002 \text{ m}^3 = = = \tilde{A} - . . = \tilde{\delta}'$, The process 2-3 is a polytropic process. $T_3 = T_4$ (Isotherm) $T_2 = T_1$

Carnot Cycle Quiz Solution - Old Dominion University

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Because of these difficulties, a steady-flow Carnot gas cycle is not practical. The Carnot gas cycle could also be achieved in a cylinder-piston apparatus (a reciprocating engine) as shown in Fig. 4.2(b). The Carnot cycle on the p-v diagram is as shown in Fig. 4.2(a), in which processes 1-2 and 3-4 are isothermal while processes 2-3 and 4-1 are ...

4.1 Carnot Cycle - NPTEL

called a Carnot engine. A Carnot engine is a perfectly reversible engine; it has the maximum possible thermal efficiency $\hat{I}\text{-max}$ and, if operated as a refrigerator, the maximum possible coefficient of performance K_{max} .

Chapter 19. Heat Engines and Refrigerators

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1 Solutions to sample quiz problems and assigned problems Sample Quiz Problems Quiz Problem 1. Prove the expression for the Carnot efficiency for a perfectly reversible Carnot cycle using an

Solutions to sample quiz problems and assigned problems

Problems. You are now operating a Carnot engine at 40% efficiency, which exhausts heat into a heat sink at 298 K. If you want to increase the efficiency of the engine to 65%, to what temperature would you have to raise the heat reservoir? A Carnot engine absorbed 1.0 kJ of heat at 300 K, and exhausted 400 J of heat at the end of the cycle.

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