

Physics 215 Thermodynamics And Modern Physics

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Figure 15.28 A simple heat pump has four basic components: (1) condenser, (2) expansion valve, (3) evaporator, and (4) compressor. In the heating mode, heat transfer Q_c occurs to the working fluid in the evaporator (3) from the colder outdoor air, turning it into a gas. The electrically driven compressor (4) increases the temperature and pressure of the ...

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Lecture Notes On Thermodynamics by Mr. Y. Munirathnam. This note explains the following topics: The Zeroth Law of Thermodynamics, Temperature Scales, Ideal and Real Gases, Enthalpy and specific heat, Van der Waals Equation of State, TD First Law Analysis to Non-flow Processes, Second Law of Thermodynamics, Ideal Rankine Cycle, Air standard Otto Cycle.

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nonequilibrium in thermodynamics. Physics Reports 2015; 583: 1-58. [97] Streltsov A, Adesso G, Plenio MB. Colloquium: quantum coherence as a resource. Reviews of Modern Physics 2017; 89 (4): 041003. doi: 10.1103/RevModPhys.89.041003 [98] Misra A, Singh U, Bhattacharya S, Pati AK. Energy cost of creating quantum coherence. Physical Review A

PHYSICS 215 Thermodynamics and Modern Physics

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