Physics 14 Thermal Physics Spring 2005

Assignment #4 - Due Tuesday 2/15/05

Problem sessions : Sunday afternoon at 3:00PM in Science Center 113

Lecture Notes : Boccio --- pages 116-138

Textbook readings: Schroeder - chapter 3 pages 108-121

Schroeder - chapter 4 pages 122-137

Textbook problems:

- 3.28 entropy change at constant pressure
- 3.32 sudden movement of a piston
- 3.37 chemical potential versus altitude
- 3.39 things in "flatland"
- 4.01 "rectangular" cycle as a heat engine
- 4.03 power plant
- 4.06 Carnot cycle
- 4.08 leaving the refrigerator door open
- 4.12 "rectangular" cycle as a refrigerator
- 4.14 a heat pump