Physics 14 Thermal Physics Spring 2005

## Assignment #2 - Due Tuesday 2/01/05

Problem sessions : Sunday afternoon at 3:00PM in Science Center 113
Lecture Notes : Boccio --- pages 45-84
Textbook readings : Schroeder - chapter 1 pages 33-48
Schroeder - chapter 2 pages 49-74
Textbook problems :

## Textbook problems :

1.54 - climb the mountain 1.57 - R values 1.69 - Fick's second law 2.02 - flipping 20 coins 2.04 - five-card poker hands 2.08 - two Einstein solids 2.11 - two interacting two-state paramagnets 2.18 - Stirling's formula; multiplicity of Einstein solid 2.19 - Stirling's formula; multiplicity of two-state paramagnet 2.22 - peak of multiplicity function; two Einstein solids 2.3 - two-state paramagnet with 10<sup>23</sup> elementary dipoles 2.26 - multiplicity of ideal monatomic gas in "flatland" 2.27 - two-sided box