

Physics 14 Thermal Physics Spring 2005

Assignment #3 - Due Tuesday 2/08/05

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

Lecture Notes : Boccio --- pages 85-115

Textbook readings : Schroeder - chapter 2 pages 75-84
Schroeder - chapter 3 pages 85-108

Textbook problems :

- 2.30 - entropy and two vary large Einstein solids
- 2.32 - entropy of "flatland" ideal gas
- 3.02 - prove zeroth law of thermodynamics
- 3.03 - what happens at thermal contact
- 3.10 - melting ice
- 3.13 - sunlight, entropy and growing grass
- 3.20 - magnetization in two-state electronic paramagnet
- 3.23 - entropy in two-state electronic paramagnet
- 3.24 - computer study of Einstein solid
- 3.25 - entropy of Einstein solid