

Physics 450: Problem Set #7

Department of Physics and Astronomy
Sonoma State University

Due Wednesday, Oct. 20, 2010, 12:00 pm (in class)

- All problems are from the text: Daniel V. Schroeder, An Introduction to Thermal Physics, Addison Wesley Longman, 1999;
 - Please read 3.1-3.3;
1. Problem 3.10;
 2. Problem 3.11;
 3. Problem 3.14;
 4. Problem 3.23; Hint: What is N_{\uparrow} or N_{\downarrow} in terms of energy U ? Use eqs. (3.25) and (3.31).