Phys 404 Spring 2010

Homework 4, CHAPTER 4 Due Thursday, March 11, 2010 @ 12:30 PM

Chapter 4 assignment:

Read chapter 4, then do

- 1. K+K, Chapter 4, Problem 1
- 2. K+K, Chapter 4, Problem 2
- 3. K+K, Chapter 4, Problem 5
- **4**. K+K, Chapter 4, Problem 7
- 5. K+K, Chapter 4, Problem 8
- **6**. K+K, Chapter 4, Problem 11 (Calculate the high temperature limit of C_V only)
- 7. K+K, Chapter 4, Problem 12 (Hint: use Eqs. (25) and (26) to find U/V for photons, and from that the heat capacity per unit volume C_V/V)
- **8**. K+K, Chapter 4, Problem 18