

CH301 Random Musings, November 20, 2008--A Brief Musings as we prepare for Quiz 6

1. I wasn't pleased with the quiz 5 performance, but not surprised. Thermodynamics has a way of seeming like you get it, and then it falls apart. The only solution is consistent practice rather than last minute cramming.
2. Toward that goal, I am preparing three worksheets to help you get ready for quiz 6. They will be posted late this evening. The topics are:
 - Worksheet 13 a: Problems on Statistical Thermodynamics from Lecture 22
 - Worksheet 13b: Problems on Internal Energy from Lecture 23
 - Worksheet 13c: Problems on Thermal Entropy and the Second Law from Lecture 24
3. I don't want to rush the material you are expected to learn for quiz 6 so I am changing the question types to cover just the material on worksheets 13 a-c. The revised question types for quiz 6 are:
 - Statistical thermodynamics theory
 - Statistical thermodynamics internal energy calculation ($E = 0.5kT$)
 - Statistical thermodynamics positional entropy calculation ($S = k \ln W$)
 - Internal Energy theory
 - Internal energy calculation ($\Delta U = q + w$)
 - Ranking system entropies
 - Calculation of ΔS from heat transfer ($\Delta S = q/T$)
 - Calculation involving the second law equation ($\Delta S_{\text{univ}} = \Delta S_{\text{sys}} + \Delta S_{\text{surr}} > 0$)
4. On Tuesday next week we will:
 - take quiz 6
 - eat pie and ice cream
 - take a close look at how to determine your grade and what it takes to get the grade you want on exam 3 or the final
 - explodes hydrogen balloon turkeys