

Homework Chem 342 - 2001, Keiderling
Due: Friday August 31, 2001

From Levine 5th Ed.:

Ch 1: 1.1 simple exercise, but useful to get a feel for numbers, b) recalculate # photons/sec for a projector lamp that is approximately a black body of 2500°K , assume you can detect all photons from 0.2μ to 10μ and that the ~~size~~^{size} is equivalent to a 10 mm long cylinder 1 mm in diameter.

1.2 plus recalculate (a) and (b) for Cs which is $\sim 20\%$ easier to ionize than Na

1.4

1.7

1.8

Ch 3: 3.7, 3.16, 3.12 (and state why), 3.23
3.27, 3.38

- Note: early #1-20 are simple exercises to confirm understanding of basic

Ch 7: 7.5, 7.10, 7.55, 7.56