

Chem. 1410 HW # 1

Assigned: 1/5/2012

Note that the last four problems are from the text.

Due: 1/17/2012

1. A sodium lamp emits yellow light (550 nm). How many photons does it emit in one second if its power is 1 Watt?
2. The work function of Cs is 2.14 eV. What is the kinetic energy and speed of the electrons emitted when the metal is illuminated with 700 nm light?
3. P1.15
4. Q2.4
5. P2.17
6. P2.25