Physics 108 Assignment#5 (due on 5/4/15)

Reading materials:

Pedrotti 3rd Edition: **Chapter 11:** 11-1 through 11-4
Lecture Notes: pp. 49 - 62

Homework: (Pedrotti 3rd Edition)

1. 11-1
2. 11-3
3. 11-4
4. 11-5
5. 11-10
6. 11-11
7. 11-13
8. Show explicitly that the spatial resolution of a small object y_0 viewed by a microscope with an objective of focal length f_0 and an effective diameter d (determined by the Entrance pupil E_nP, remember that?) is given by $\delta y_0 = 1.22 * (f_0 / d) * \lambda$.