

Homework 8
PH462 EM Waves and Optical Physics

due 29 Oct. 2006 by 5pm
posted: 22 Oct. 2006

- 1) HM problem 8-16. Use the standard Larmor formula (eqn 8.89) for the radiated power.
- 2) HM problem 9.4
- 3) HM problem 9-12.
- 4) HM problem 9-16. This impedance-matching problem is not specific to antennas – it works for any load resistance.
- 5) HM problem 9-17: You can consider the rotating dipole as a superposition of two linear dipoles oriented along the x and y axes.
- 6) HM problem 9-18. This problem is related to Young's double-slit.