
Due Wednesday, February 23 by 5PM.

1. Fill in the steps to go from Jackson (9.40) to (9.44).

2. Jackson, problem 9.2

3. A wire loop of radius $a$, carrying current $I$ is rotated about a diameter with constant angular velocity $\omega$. Calculate the time-averaged radiated power per unit solid angle in the small-loop approximation ($\omega a/c \ll 1$). What is the polarization of the radiated wave?