

## EP440: ENGINEERING ELECTROMAGNETICS

Fall 2014, J. B. Snively

**Homework #8:** Due 11/7/2014 at 5:00!

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**For this assignment... Work out the following problems on separate sheets. Staple all, including this front page, for your submission.**

- 1) Cheng Problem P.7-2.
- 2) Cheng Problem P.7-5.
- 3) Cheng Problem P.7-17.
- 4) Cheng Problem P.7-20.
- 5) Cheng Problem P.7-30. Also, compare your result for copper with that for Teflon.  
(Assume that the relative permittivity = 2.1 and conductivity =  $3 \times 10^{-8}$  S/m.)