

**Homework 6**  
**EE382 Applied Electromagnetics (Spring 2018)**  
**Wednesday, February 21, 2018**

- 1) 11.27
  - 2) 11.28 Find reflection coefficients at both load and input.
  - 3) 11.37 Hint:  $u = c/\sqrt{\epsilon_r}$
  - 4) 11.38
  - 5) 11.39 a) Find load reflection coefficient. One of text answers incorrect.
  - 6) 11.42
  - 7) 11.43
  - 8) 11.46
- Unless otherwise specified, use **Smith charts** to solve problems (one Smith chart per problem). Clearly label all work on Smith charts (e.g., label all points, arcs, problem number, distances, ...). Write all complex quantities in phasor form (e.g.,  $A/\theta^\circ$ ) except admittances, impedances and propagation constants which should be in rectangular form.

**Due Wednesday, February 28, 2018.**