

University of Portland
School of Engineering

EE 301
Spring 2013
A. Inan

Homework # 7-Design of Impedance Matching Networks

(Assigned: Wednesday, April 17, 2013)

(Due: Friday, April 26, 2013, 9:15a.m.)

These problems are assigned from Engineering Electromagnetics by Inan/Inan (1999) (pages 226-237):

- 3.24. Matching with a single lumped element.**
 - 3.25. Matching with series stub.**
 - 3.28. Quarter wave transformer.**
 - 3.32. Is a match possible?**
 - 3.33. L-section matching network design.**
 - 3.38*. Quarter-wave matching.**
 - 3.39. Single-stub matching network design.**
- *Optional.

Please use the following guidelines for your homework solutions:

- 1) On the first sheet, at the top center, write: Homework #7-Solutions.
- 2) Provide your full name on the upper right corner of the first sheet.
- 3) Also write: EE 301/Spring 2013 on the upper left corner of the first sheet.
- 4) Solve each problem on a separate sheet unless your solution is very short.
- 5) Box all of your answers.
- 6) Staple your solutions in the above order before you turn them in.

Please turn in your homework on time.

Important reminder:

EE 301-Final Exam is on Tuesday, April 30, 2013, 8:00-10:00a.m.! ☹
Closed book exam, formula sheets are allowed.