

***University of Portland***  
***School of Engineering***

EE 301  
Spring 2017  
A. Inan

**Homework # 5**

(Assigned: Friday, March 10, 2017)  
(Due: Friday, March 24, 2017, 11:25a.m.)

These problems are assigned from Engineering Electromagnetics and Waves (Second Edition, 2015) by Inan<sup>2</sup> Said (pages 197-209):

- 3.1. Transmission line capacitor.**
- 3.4. Terminated transmission line.**
- 3.6. Source- and load-end voltages.**
- 3.7. Capacitive termination.**
- 3.11. Cascaded transmission lines.**
- 3.15. Input impedance.**

Please use the following guidelines for your homework solutions:

- 1) On the first sheet, at the top center, write: Homework #5-Solutions.
- 2) Provide your full name on the upper right corner of the first sheet.
- 3) Also write: EE 301/Spring 2017 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-Midterm Exam # 2 is on Friday, April 7, 2017, 11:25-12:20 noon.  
Closed book exam, only 2 formula sheets are allowed.