

*University of Portland*  
*School of Engineering*

EE 301  
Spring 2016  
A. Inan

**Homework # 4**

(Assigned: Wednesday, February 10, 2016)  
(Due: Monday, February 15, 2016, 11:25a.m.)

These problems are assigned from Engineering Electromagnetics and Waves (Second Edition, 2015) by Inan<sup>2</sup> Said (pages 80-98):

- 2.31. Unknown lumped element.**
- 2.32. Source-end TDR waveform.**
- 2.35. Reactive element at the junction.**
- 2.38. Transient response.**

Please use the following guidelines for your homework solutions:

- 1) On the first sheet, at the top center, write: Homework #4-Solutions.
- 2) Provide your full name on the upper right corner of the first sheet.
- 3) Also write: EE 301/Spring 2016 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 # 1 is on Monday, February 22, 2016, 11:25-12:20 noon.  
Closed book exam, only 1 formula sheet is allowed.