

# *University of Portland*

## *School of Engineering*

EE 261  
Fall 2011  
A. Inan

### Homework # 7

(Assigned on November 14, 2011; Due date: Monday, November 21, 2011)

These problems are assigned from *Introduction to Electric Circuits* by Dorf/Svoboda (John Wiley, 8<sup>th</sup> edition, 2010, ISBN# 978-0-470-52157-1, pages 353-367):

**P 8.6-2. Step source excitation of a first-order *RC* circuit.**

**P 8.6-3. Step source excitation of a first-order *RL* circuit.**

**P 8.6-9. Step source excitation of a first-order *RC* circuit.**

**P 8.6-10\*. Step source excitation of a first-order *RC* circuit.**

**P 8.6-14. Step source excitation of a first-order *RL* circuit.**

**P 8.6-22\*. Step source excitation of an *RC* circuit.**

**P 8.6-26. Step source excitation of a first-order *RL* circuit.**

\*Optional.

Please follow these guidelines for providing your homework solutions:

- 1) On the first sheet, at the top, indicate in the middle that this is EE 261/Fall 2011/HW #7 Solutions and provide your full name on the right upper corner of the sheet.
- 2) Solve each problem on a separate sheet unless there is a solution which is very short.
- 3) Do not use the back of the sheets unless you have to.
- 4) Staple your solutions in the above order before you turn them in.

Please turn in your homework on time. The solutions for each homework assignment will be provided as a separate handout on the due date.