

*University of Portland*  
*School of Engineering*

EE 261  
Spring 2013  
A.Inan

**Homework # 7—Transient Behavior of Second-Order DC Switching Circuits**

(Assigned on April 12, 2013; Due date: April 17, 2013, 1:35p.m.)

These problems are assigned from Introduction to Electric Circuits by Dorf/Svoboda (8<sup>th</sup> edition, pp. 401-414):

**P 9.3-2. Second-order *RLC* circuit.**

**P 9.4-2. Second-order *RLC* circuit.**

**P 9.5-1. Second-order *RLC* circuit.**

**P 9.5-2\*. Second-order *RLC* circuit.**

**P 9.6-2. Second-order *RLC* circuit.**

**P 9.8-7. Second-order *RLC* circuit.**

\*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 261/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 261-Midterm Exam # 3 is on Friday, April 19, 2013, 1:35-2:30p.m.

Closed book exam, only 3 formula sheets are allowed.