

University of Portland
School of Engineering

EE 261
Fall 2012
A. Inan

Homework # 7

(Assigned: Monday, November 12, 2012)
(Due Wednesday, November 21, 2012, 1:35p.m.)

These problems are assigned from Introduction to Electric Circuits by Dorf/Svoboda (8th edition, pp. 353-367 and 401-414):

- P 8.6-8. Step response of a first-order RC op-amp circuit.**
 - P 8.6-9. Step response of a first-order RC circuit.**
 - P 8.6-22*. Step response of a first-order RC circuit.**
 - P 8.6-24. Step response of a first-order RL circuit.**
 - P 8.6-26*. Step response of a first-order RL circuit.**
 - 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, indicate that this is EE 261/Fall 2012/HW #7 Solutions and provide your name somewhere on that sheet where the grader can easily see it.
- 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.

An Important Reminder Note:

**EE 261—Midterm Exam # 3 is scheduled for Friday, November 30, 2012!
(It is a closed book exam, however, three formula sheets are allowed.)**