

# *University of Portland*

## *School of Engineering*

EE 261  
Summer 2012  
A. Inan

### **Homework # 2**

(Assigned: Thursday, May 24, 2012)  
(Due Tuesday, June 5, 2012, 12:40p.m.)

These problems are assigned from Introduction to Electric Circuits by Dorf/Svoboda (8<sup>th</sup> edition):

- P 4.2-2. Node voltage analysis.**
  - P 4.2-6. Node voltage analysis.**
  - P 4.3-1. Node voltage measurement.**
  - P 4.3-4. A circuit with a super-node.**
  - P 4.3-6. Node voltage measurement.**
  - P 4.3-10. Should you trade your lab partner? ☺**
  - P 4.3-12. Node voltage analysis.**
  - P 5.2-5. Source transformation.**
  - P 5.2-6. Source transformation.**
  - P 5.3-5. Superposition principle.**
  - P 5.3-7. Superposition principle.**
  - P 5.3-16. Determine the current and resistance.**
  - P 5.4-2. Thévenin equivalent circuit.**
  - P 5.4-4\*. Thévenin equivalent circuit.**
  - P 5.5-3. Norton equivalent circuit.**
  - P 5.6-3. Maximum power transfer theorem.**
  - P 5.6-6. Maximum power transfer theorem.**
  - P 5.8-3. Thévenin equivalent 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/Summer 2012/HW #2 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.