University of Portland
School of Engineering

EE 261/Fall 2011/A. Inan

Homework # 4

(Assigned on October 5, 2011; Due date: Thursday, October 13, 2011, noon.)

These problems are assigned from *Introduction to Electric Circuits* by Dorf/Svoboda (John Wiley, 8th edition, 2010, ISBN# 978-0-470-52157-1, pages 192-207):

P 5.2-3. Source transformation.
P 5.2-5. Source transformation.
P 5.3-4. Superposition principle.
P 5.3-6. Superposition principle.
P 5.3-16. Determine i_a and R.
P 5.4-2. Thévenin equivalent circuit.
P 5.4-4. Thévenin equivalent circuit.
P 5.5-4. Norton equivalent circuit.
P 5.6-3. Maximum power transfer theorem.
P 5.6-6. Thévenin equivalent circuit.
P 5.9-3. Checking prelab calculations.

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 #4 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.