

# *University of Portland*

## *School of Engineering*

EE 261  
Fall 2013  
A. Inan

### **Homework # 5—Operational Amplifiers**

(Assigned on October 23, 2013; Due date: October 28, 2013, 1:35p.m.)

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 242-256):

**P 6.3-1. Ideal operational amplifier.**

**P 6.3-3. Ideal operational amplifier.**

**P 6.3-7. Two-stage operational amplifier.**

**P 6.3-14. Two-stage operational amplifier.**

**P 6.4-8. An op amp circuit.**

**P 6.4-11. Another op amp circuit.**

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 2013/HW #5 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.