

*University of Portland*  
*School of Engineering*

EE 262  
Spring 2013  
A. Inan

**Homework # 6-Laplace Transform & its Applications**

(Assigned: Wednesday, April 17, 2013)

(Due: Friday, April 26, 2013, 9:15a.m.)

These problems are assigned from Engineering Signals and Systems by Ulaby/Yeagle (2013) (pages 179-186):

- 4.3. Laplace transform applied to electric circuits.**
  - 4.6. Laplace transform applied to electric circuits.**
  - 4.7. Laplace transform applied to electric circuits.**
  - 4.8\*. Laplace transform applied to electric circuits.**
  - 4.10. Laplace transform applied to electric circuits.**
  - 4.19. Laplace transform applied to electric circuits.**
  - 4.21. Laplace transform applied to electric circuits.**
  - 4.31. Transfer function of an op-amp circuit.**
  - 4.33. Transfer function of an op-amp circuit.**
- \*Optional.

Please use the following guidelines for your homework solutions:

- 1) On the first sheet, at the top center, write: Homework #6-Solutions.
- 2) Provide your full name on the upper right corner of the first sheet.
- 3) Also write: EE 262/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 262-Final Exam is on Thursday, May 2, 2013, 10:30-12:30.

Closed book exam, formula sheets are allowed.