

*University of Portland*  
*School of Engineering*

EE 262  
Spring 2014  
A. Inan

**Homework # 7-Fourier Analysis Techniques**

(Assigned: Monday, April 7, 2014)

(Due: Monday, April 14, 2014, 9:15a.m.)

These problems are assigned from Engineering Signals and Systems by Ulaby/Yeagle (2013) (pages 237-244):

**5.6. Fourier series of a periodic waveform.**

**5.8. Fourier series of a periodic waveform.**

**5.13\*. Fourier series of a periodic waveform.**

**5.21. Fourier series of a periodic waveform.**

**5.22. Fourier series applied to electric circuits.**

**5.24. Fourier series applied to electric circuits.**

**5.28\*. Fourier series applied to electric circuits.**

\*Optional.

Please use the following guidelines for your homework solutions:

- 1) On the first sheet, at the top center, write: Homework #7-Solutions.
- 2) Provide your full name on the upper right corner of the first sheet.
- 3) Also write: EE 262/Spring 2014 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.

**An important reminder:**

EE 262-Final Exam is on Tuesday, April 29, 2014, 13:30-15:30.  
Closed book exam, formula sheets are allowed.

*Side note: Don't forget to celebrate the upcoming palindrome day this Thursday!*

