

University of Portland
School of Engineering

EE 262
Spring 2015
A. Inan

Homework # 7-Fourier Analysis Techniques

(Assigned: Wednesday, April 1, 2015)

(Due: Monday, April 20, 2015, 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 2015 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-Midterm # 2 is on Friday, April 10, 2015, 9:15-10:10a.m.

Closed book exam, formula sheets are allowed.