# Portland State University Electrical and Computer Engineering ECE 418/518: Linear System Analysis I (4 Credits) Fall 10

- $\bullet\,$  Class schedule: T Th: 4:40 6:30 PM
- Instructor: Prof. F. Li
- Office hours: T Th: 2:30 3:30 PM, or by appt.
- 160-10 FAB, 5-3824 or fli@ee.pdx.edu
- Web URL: http://www.ece.pdx.edu/ ~ fli
- TA: TBA

## <u>Text:</u>

• Signals and Systems, Second Edition, by Alexander D. Poularikas and Samuel Seely, Krieger Publishing, 1994, at Library Reserve.

#### Notes:

• Lecture notes (with home assignments and solutions), Clean Copy.

Other References:

- Contemporary Linear Systems, Using Matlab, by Robert D. Strum and Donald E. Kirk, PWS-Kent Publishing, 1993.
- Signals and Systems: Continuous and Discrete, Third Edition, by Rodger E. Ziemer, William H. Tranter, and D. Ronald Fannin, MacMillan, 1993.

#### Course descriptions

• Advanced concepts of continuous-time signals, systems, and transformations. Signals: periodicity, orthogonality, basis function; System: Linearity, superposition, time-invariance, causality, stability, and convolution integral; Transforms: Fourier series and Fourier Fourier transform, Hilbert and Hartley transforms, Laplace transform.

## Prerequisite:

• EE 222: Signals and Systems, or equivalent.

#### Grading policy:

- Final grade will be based upon: two quizzes 25% each (50 minutes each) and final exam 50%.
- The homework is assigned to each chapter and the solutions to the assigned homework problems will be available at the Clean Copy. The homwqork will not be graded.
- Attendence is required for 418. However it is the student responsibility to follow all class assignments and announcements.

## Have fun!