Portland State University Electrical and Computer Engineering

ECE 418/518: Linear System Analysis I (4 Credits) Fall 07

• Class schedule: T Th: 4:00 - 5:50 PM, FAB 150

• 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

Text:

• 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!