

ECE311

Feedback and Control

Instructor: R. Tymerski, FAB 160-18. (503) 725-5424
Office Hours: MW 4:00 – 5:00
Web site: www.ece.pdx.edu/~tymerski

TAs:

Course TA:

Rajeev Naim. Email: rknaim@ece.pdx.edu off. hrs: Check with TA

Lab TA:

Kiran Dablee. Email: dablee@cecs.pdx.edu off. hrs: Check with TA

Course Learning Objectives:

- 1) To apply classical control theory principles to the design of control systems.
- 2) Demonstrate proficiency with software that aids in the design process.

Text: “Design of Feedback Control Systems”, by Stefani, Savant, Shahian and Hostetter, Oxford University Press, Fourth Edition

Grading: Quizzes (3): 80%
Labs: 20%

Quizzes: Quiz #1 (25%): Week 5 (Wednesday)
Quiz #2 (25%): Week 8 (Wednesday)
Quiz #3 (30%): Week 11 (Wednesday)

No make-up exams will be given. All quizzes are comprehensive.

Content: This course introduces classical control theory for the feedback design of continuous time SISO systems. The material covered is in Chapters 1 to 7 of the text. Not all material in these chapters will be covered.

Notes:

- 1) A set of notes is available at the course website: www.ece.pdx.edu/~tymerski
- 2) Recommended exercise problems will be given which students are expected to do, *as a minimum*. The solutions to all problems in the form of the solutions’ manual for the text is available at the ECE311 section of the instructors web site.