ECE446/546

Power Electronic System Design II

Class: Mon. and Wed. 2:00-3:40

Instructor: R. Tymerski, FAB160-18, O.H. TBA


Notes: A set of notes and other materials used by the instructor is available on the web at:
http://web.cecs.pdx.edu/~tymerski/

Grading:

Quizzes (3): 70%
Projects: 30%

Quizzes: Each quiz will be on Wednesday of the following weeks of the term:
- Quiz #1 (20%): week 4
- Quiz #2 (20%): week 7
- Quiz #3 (30%): week 10

Be aware of the dates of the quizzes. No make-up for quizzes will be given.

In this second term of this two course sequence, we will examine issues related to incorporating feedback control in power converter systems. All theory necessary will be presented in class and will culminate in a hardware project in which a closed loop regulating dc-to-dc converter system will be designed, built and demonstrated.

Course outline of ECE446/546:

- AC small signal modeling
- Bode plots
- Feedback design
- Circuit Modeling
- Droop control design