

Fall 2004

EE369, Power Systems Engineering, 15975, concurrent with
EE394J-2, Power System Engineering II, 16240

Time and Room: MWF 10-11, ENS302

Professor: Dr. W. Mack Grady, ENS348, 471-5231, grady@mail.utexas.edu,
www.ece.utexas.edu/~grady

Office Hours: MW 1-2, 3-4; F 9-10, 1-2.

Textbook and Other Notes: A. R. Bergen and V. Vittal, *Power System Analysis*, 2nd Edition, Prentice Hall, 2000. See also my power system notes on the class web page www.ece.utexas.edu/~grady/EE369_Fall04.html.

Prerequisites: EE438 (or 338) or 331 or 331K with a grade of at least C.

Schedule and Topics

Chapter	Topic	Approx. Weeks
2	Basic Principles	2
3	Transmission Line Parameters	1
5	Transformer Modeling and the Per Unit System	2
9	Network Matrices	1
10	Power Flow Analysis	2
12	Unbalanced System Operation	2
6	Generator Modeling I	1
7	Generator Modeling II	1
8	Voltage Control System	1
14	Power System Stability	1

Guest Lectures: Several during the semester, by a practicing power engineer.

Homework: Weekly homework, due on Fridays.

Grading:

Weekly in-class tests, 15-20 minutes on most Fridays, one sheet of notes permitted (the lowest grade will be dropped) =	60%
Weekly homework =	10%
Classroom participation and attendance =	10%
Comprehensive final exam =	20%
Total	100%

Final Examination: Comprehensive. Given during the official UT scheduled time. One sheet of notes permitted.

Other: The MEC common evaluation form will be used. U. T. provides, upon request, appropriate academic adjustments for qualified students with disabilities. An engineering student must have the Dean's approval to add or drop a course after the fourth class day of the semester. Applications for approval to drop a course after the fourth class day should be made in the Office of Student Affairs, ECJ2.200.