

EE 610 Final Study Guide - Fall 2004

The following are topics which may occur on the open book final exam
(scheduled for Th 12/16/04, 16:00 - 18:00 in CHEM 0128)

1. Hurwitz polynomials and test for in terms of reactance functions
2. Richards' functions and their positive-real properties and degree reduction
3. Synthesis of reactance functions, especially the first Cauer form
4. State variable equations and relation to natural frequencies
5. Equations describing the Colpitts oscillator (two versions were presented in class)
6. Setting up and using the indefinite admittance matrix

Notebooks are due at the end of the final exam.