ECE 422/522 Study Guide #8 23 February 2015

Continuing the analog IC design class project. How the piece we’ve been working on fits into a receiver block diagram. Testing using the interface ports to other blocks. An example receiver for 10 MHz.

This week, informal progress reports and discussion of the more complete project report due in class Monday March 2.

Filters, attenuators, drive and load impedance.

Filter practice. Real inductors and capacitors. The importance of picohenries and femtofarads.

Component Q

Autotransformers and tapped capacitors.

Design of a variable frequency oscillator.

Example variable frequency oscillator. How to simulate, how to test, variable frequency oscillator practice.