ECE 510 RFIC Design Study Guide #5 30 April 2014

Quote of the week: “The LM373. I remember that one well. That IC cost me a year of my life.” Merle Cox.

Tasks for this week: RF Subsystems on a Chip. 5M31 mixer design example.

Learn the present guidelines for what to do on chip, what to do off chip, and when separate packages make sense. The one-chip-radio. When it works and when it doesn’t.

Some notes on economics of CMOS.

When and why filters misbehave, and how to feature it.

References (continued from last week):


Passive FET Mixer Study, class web page
Rcx1 Receive Converter instructions, class web page