

File: h:\coursesS11\303\FinalStudy303S11.doc RWN 05/08/11; check for updates

Study Points for ENEE 303 Final, Spring 2011

In class portion scheduled for Tu 05/17/11, 08:00 – 10:00; open book open notes but not open computers.

Possible circuits from papers of Alyahya, Garmestani, Holub/Tekle, Kong, Son, Uddin along with probable topics of :

1. Biasing and load lines
2. Current sources/mirrors
3. Oscillation conditions.
4. Small signal equivalent circuits for BJTs and MOS
5. MOS as a switch
6. Ideal voltage controlled voltage sources (VCVS) and VCCS
7. OTAs,
8. Linear and nonlinear circuit behavior (gates, inverters, hysteresis, oscillators)
9. Voltage gain transfer functions in s, poles & zeros.
10. Spice parameters for BJTs and MOS