

ECE 2C Homework #3 Due: Monday 4/21/08 at 5:30 PM

Relevant readings:

S&S 4.1-4.3, 4.5-4.6

S&S 4.7, 6.3.1, 6.3.2, 6.5

4 problems

- (1) [10 pt.] S&S Problem 4.87 from the textbook. {Common-source amplifier, common-gate amplifier and source follower}
- (2) [10 pt.] S&S Problem 4.90 from the textbook. {High-frequency small-signal model parameters of MOSFET}
- (3) [10 pt.] S&S Problem 4.96 from the textbook. {Miller Effect on C_{gd} }
- (4) [10 pt.] S&S Problem 4.97 from the textbook. {High-frequency common-source amplifier}

Mid-term (4/23, Wed, in class) will cover materials in HW#1 through HW#3 and Lab 1a & 1b. You are allowed to bring a one-page equation sheet to the exam.