EE 105 Formal Report Grading (total 10 pts+2 pts)

Abstract including results and comments (0.5 pts)……..……..…….._____

Theory (2.5 pts)

- Schematics of amplifiers (0.5 pts)…….….._____
- Derivation of common source amplifier's gain (0.5 pts)…….._____
- Derivation of common source amplifier's Rout (0.5 pts)..……..._____
- Derivation of common drain amplifier's gain (0.5 pts)……..….._____
- Derivation of common drain amplifier's Rout (0.5 pts)..…….…._____

Experimental Results (3 pts)

- Measurement of common source amplifier's gain (1 pt)……...._____
- Measurement of common source amplifier's Rout (0.5 pts)……..._____
- Measurement of common drain amplifier's gain (1 pt)……..._____
- Measurement of common drain amplifier's Rout (0.5 pts)……._____

Analysis and Conclusion (4 pts)

- Explanations of 2-port representation of amplifiers (0.5 pts)..……_____
- Explanations of amplifier's Rout measurement (0.5 pts)……...…._____
- Analysis of CS amplifier's experimental results---
  Rin, Rout and gain (1 pt)……...…...…._____
- Analysis of CD amplifier's experimental results---
  Rin, Rout and gain (1 pt).……...._____
- Common source amplifier SPICE results (0.5 pts)……..…._____
- Common drain amplifier SPICE results (0.5 pts)……..……..…._____

Bonus (2 pts)

- Derivation of common source amplifier with degeneration
  gain and Rout (.5 pt)…...……...……._____
- Measurement of common source amplifier with degeneration
  gain and Rout (.5 pt)……...._____
- Analysis of CS amplifier with degeneration's experimental results
  Rin, Rout and gain (1 pt)…..……...……..…._____