

**University of Southern California**  
**Ming Hsieh Department of Electrical Engineering**  
**EE 348L - Electronic Circuits**  
**Spring 2016**

**Homework 4**

**Due Date is Monday, April 4, 2016 at 2pm in class.**

**Assignment:**

1. Read Chapter 5 of Sedra/Smith's *Microelectronic Circuits*, 7th edition.
2. At the end of the chapter complete the following 12 problems: ~~5.6~~, ~~5.10~~, ~~5.15~~, ~~5.17~~, ~~5.19~~, ~~5.24~~ (only do part a), ~~5.27~~, ~~5.28~~, ~~5.40~~, ~~5.44~~, ~~5.55~~, and ~~5.59~~.

**Hint for problem 5.15:** assume  $i_{dlinear} \approx k_n v_{ov} v_{ds}$  for the triode/linear operation when there is a small  $v_{ds}$ .