

ECE 2C Mid-term review topics:

- Two-port network parameters: Z/Y/h/ABCD-parameters
- PMOS and NMOS IV characteristics and DC analysis, channel length modulation, body effect
- NMOS and PMOS based amplifiers: basic gain stages (CS, CG and CD), bias point selection, mid-band calculations, input/output impedance calculation.
- Parasitic capacitances in high-frequency models, Miller theorem, LF & HF response of CS stage using Short-Circuit Time Constant method and Open-Circuit Time Constant method, Bode plots, cascading stages
- Cascade of amplifier stages