Lecture 35 (4/12/2004)
Outline

Chapter 17  MOSFETs – The Essentials

- Qualitative Theory of Operation (assume p-substrate or n-channel)
  - $V_G$
    - Accumulation, depletion, inversion, pinch-off
  - Cutoff
    - $V_G < V_T$
  - $V_D$ when $V_G > V_T$
    - Linear or triode $V_D < V_{Dsat}$
    - Saturation $V_D > V_{Dsat}$
  - Channel length modulation
    - Early Voltage

Reading: Chapter 17.1