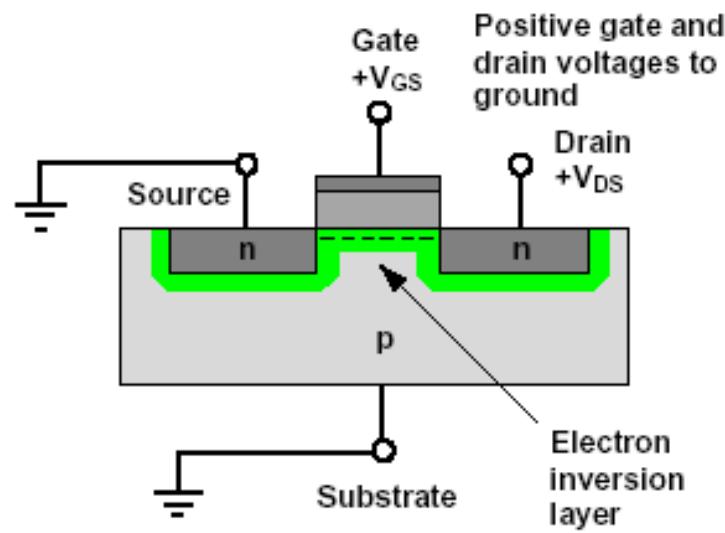


BJT transistors



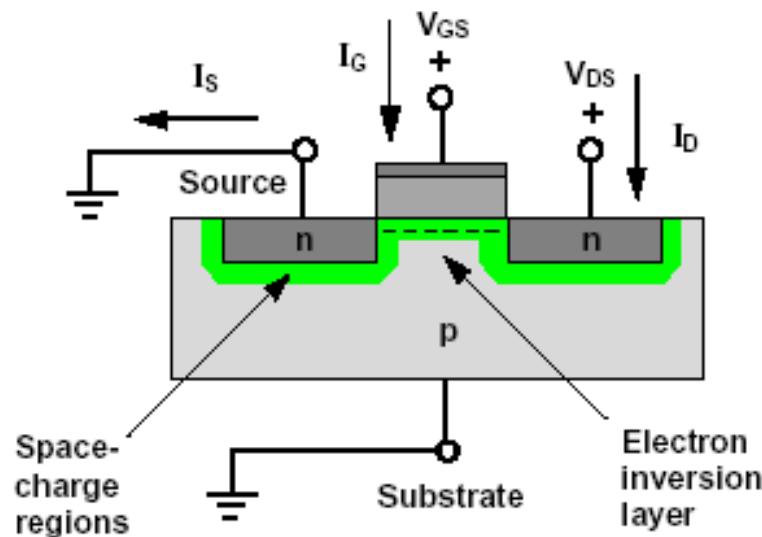
N-Channel MOSFET

- Enhancement mode — voltage must be applied to gate to “turn-on” the transistor



N-Channel MOSFET

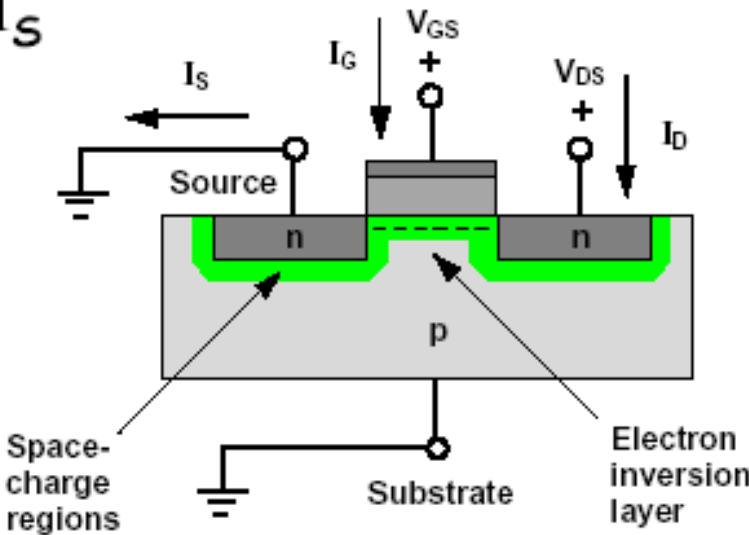
- Threshold (V_{TN}) – The gate voltage required to “turn-on” the transistor



- Minority carriers (electrons) concentrated – connect **n** drain to **n** source

N-Channel MOSFET Currents

- Gate-to-substrate resistance approaches infinite
- Gate current: $I_G = 0$
- $I_D = I_S$



N-Channel MOSFET Characteristics

