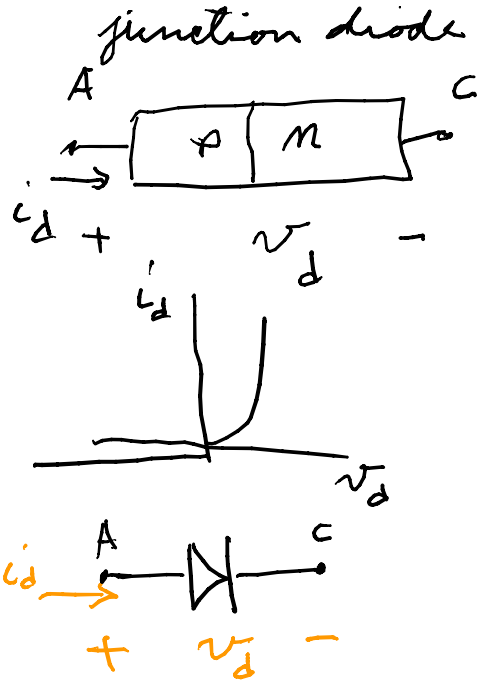
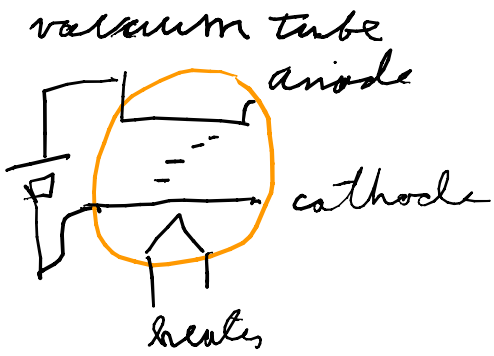
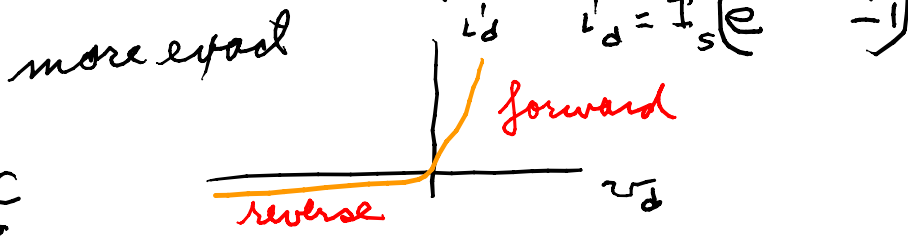
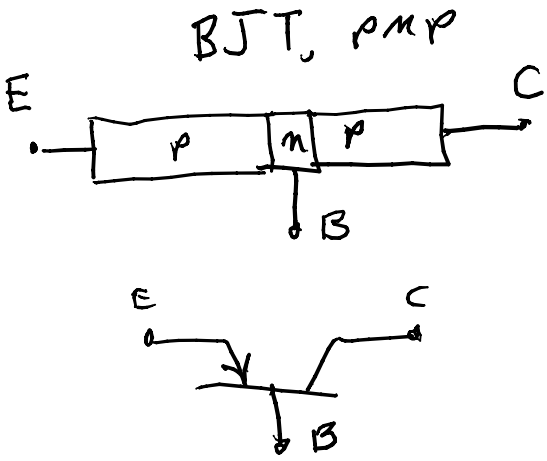
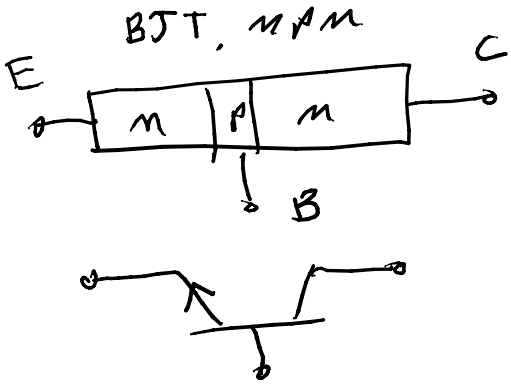
EE 303
01/27/06

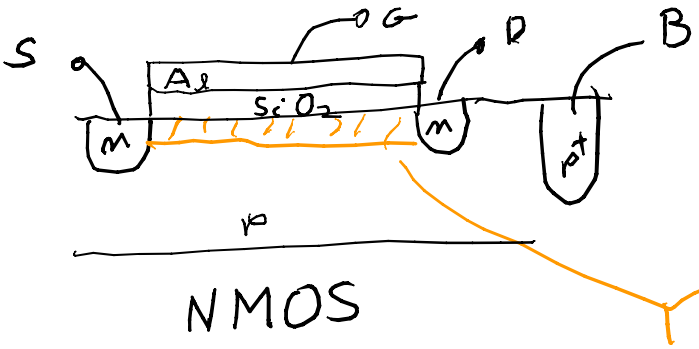




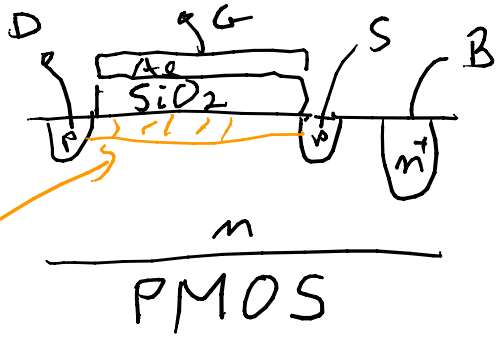








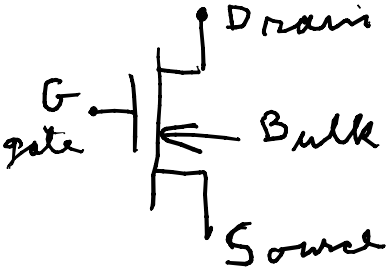
NMOS

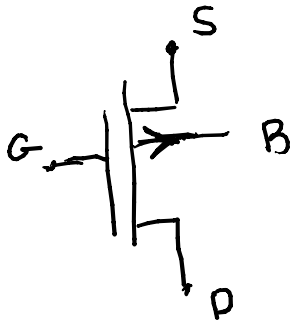


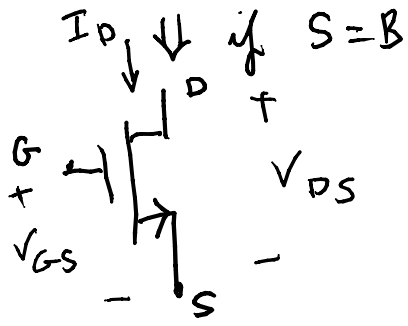
PMOS

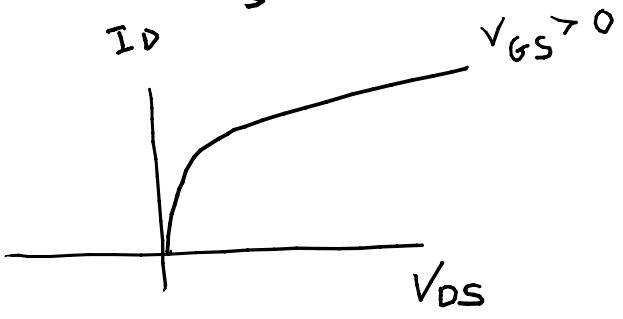
channels

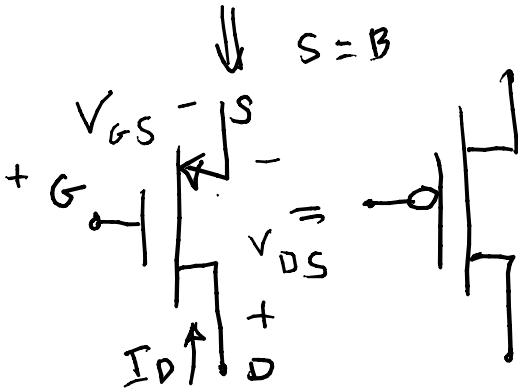
= channel

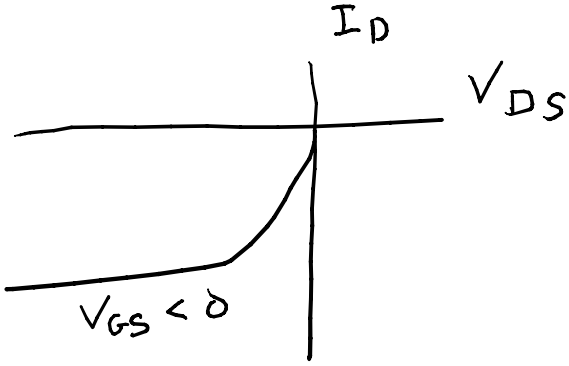




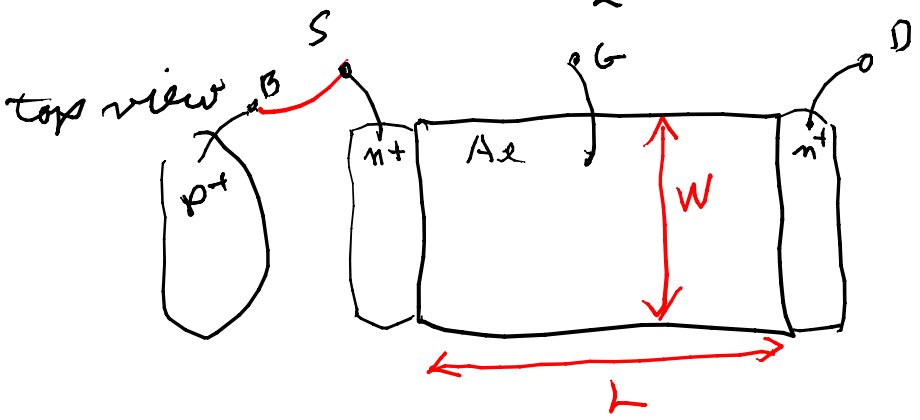


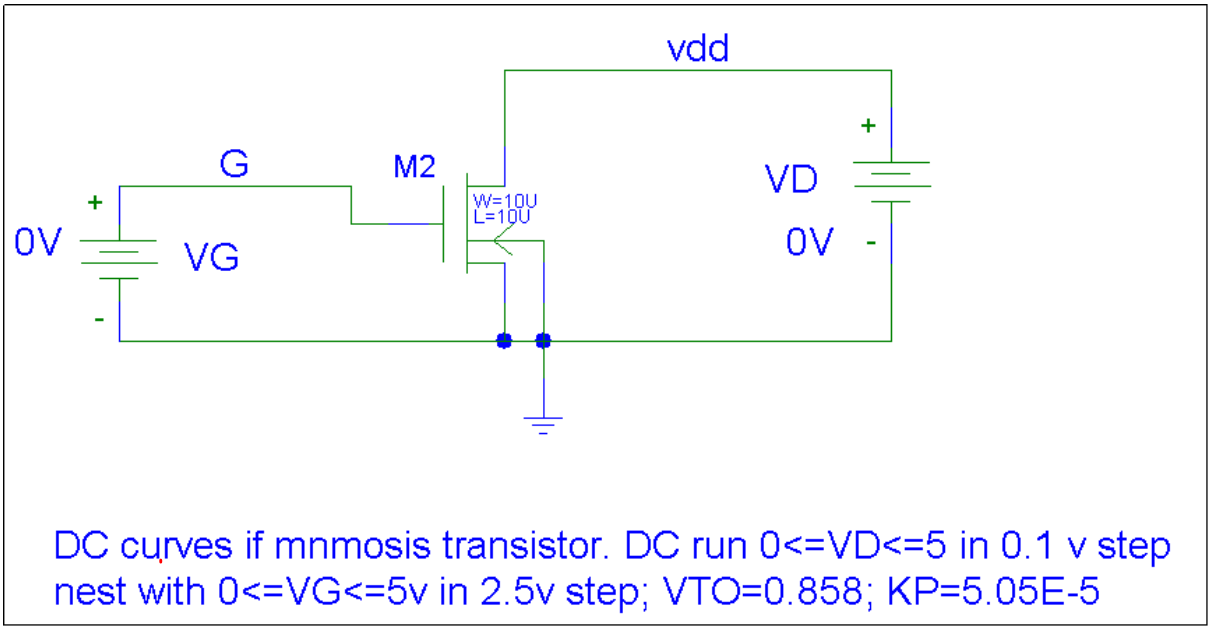




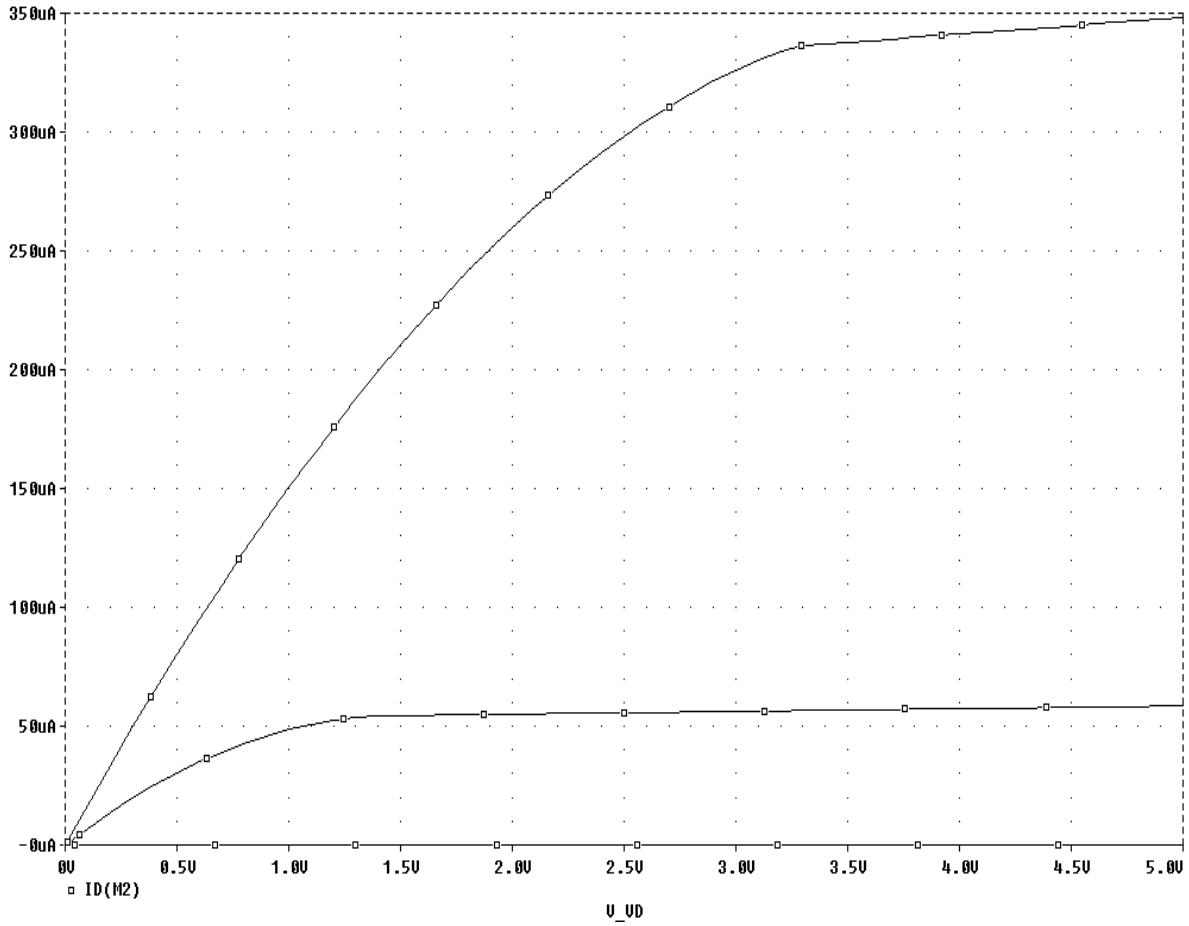


Saturation $I_D = \frac{KP}{2} \times \frac{W}{L} (V_{GS} - VTO)^2 \; ; \; V_{GS} > VTO$





DC curves if mnmosis transistor. DC run 0<=VD<=5 in 0.1 v step nest with 0<=VG<=5v in 2.5v step; VTO=0.858; KP=5.05E-5


350uA
300uA
250uA
200uA
150uA
100uA
50uA
-0uA
0V
0.5V
1.0V
1.5V
2.0V
2.5V
3.0V
3.5V
4.0V
4.5V
5.0V
ID(M2)
V_VD