Threshold Veltage and Body was Effect

If source and Body we not shorted!

not at same potential, then it will

increase Threshold voltage. This is known

as Bodybias Effect

Resistances:

Non b

Point a:-

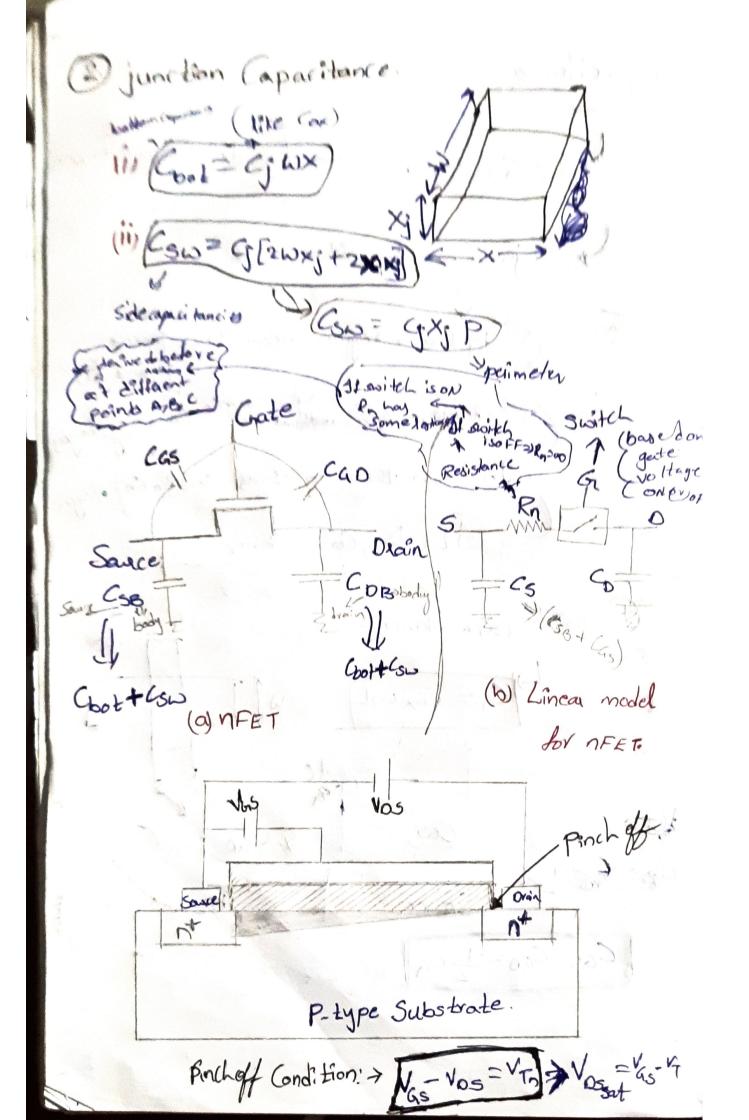
Fo = μη cox ω [2(K-VT) Vbs-VDS]
= μη cox ω [(Vas-V+) Vos - Vos]

here Vos is Small,

at point A) vps is small, Nos is very small So, 20 ≈0 Io > un cox = [Vas-VT] Vos WHT, [I=V/R]

=) Rhinear - Luss - Vtn] Iolin = My Cox @ [2CVas-V+) Vos-Vos] here vos islange to Torin = mocox to [2 (as - v) - vos] R11n = 2 B[-2(45-VT)-VBS Point -c! I osat = un Cox 10 (Vas-VT)

Capacitance 1 (1) Gate capacitance/oxide Capacitance. (2) junction Capacitance depletion region occur blu por In blue them acts as insulating layer + 9t is Capacitance 1 oxide Capacitance:-Ca = Cox WL = Cgo = 1 Cg



Pinch off 1 (at apinch off) at prain; there is pr junction and ile is geverse biased (tis Connected to & kigh voltage). Due to severse brased there will be depletion region; as Vo increases (1) deple tion region increases (1) so, electrons will stop flowing into ntregion This is known as pinch off.

But the Received will flow, because of (at constant rate)
high electric hield. This is known as Hot
Carrier Effect.

Even though vo is very high so current flows constantly after pinch of andition.

