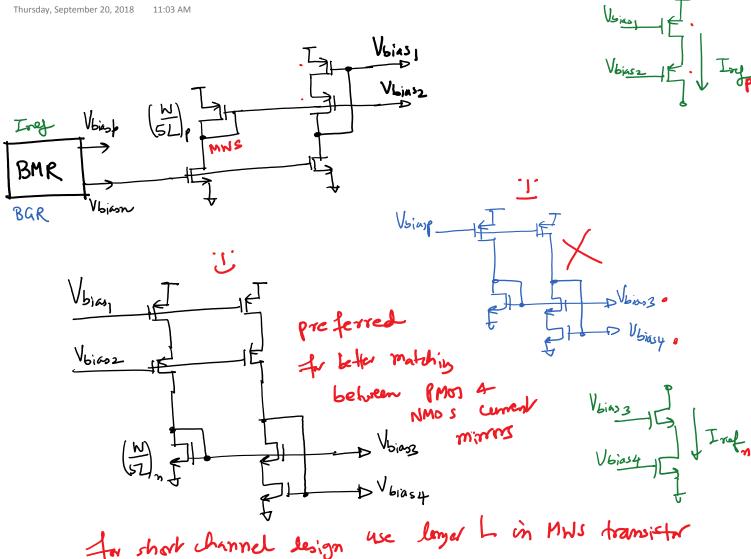
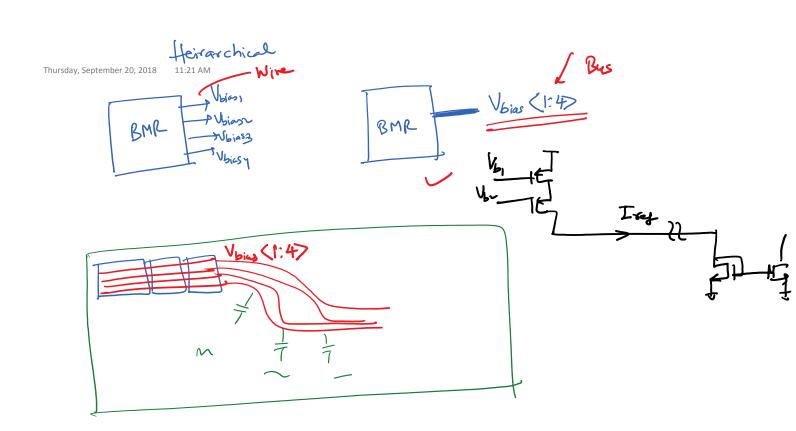
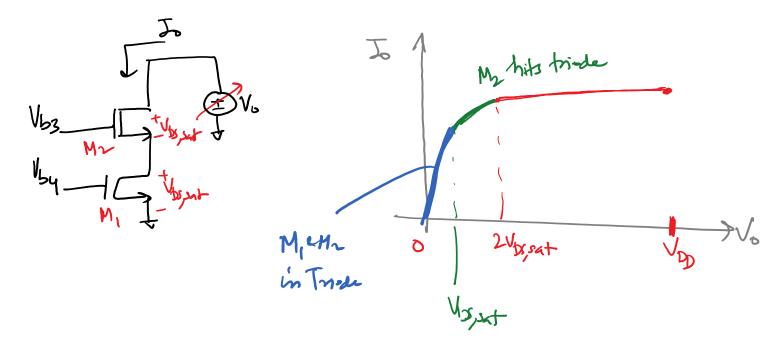
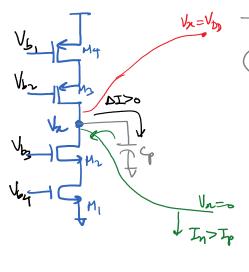
ECE 515- Lecture 9







Ipa In organ to Israf



Vx=? √7 ≠ √2.

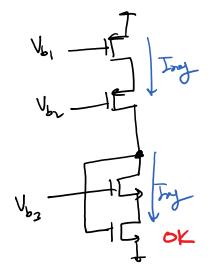
耳>5元 DI= 〒元

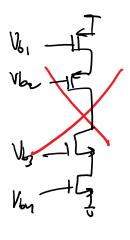
x small current mismatch

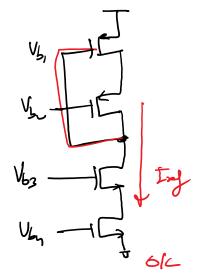
Va is not well-defined.

* Can never have two independent current source "fight" with each other.

one source dependent on the other.







Thursday, September 20, 2018 12-43 AM Short-charmed

teanishin featuring

the shift the colisish that the colisish that the colisish the colisish the colisish the colisish the colisish that the colisish the colisish that the colisis that the

Long-channe CMOS

The He was in silican mos are slower than NAMOS

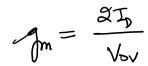
Short- channel CMES

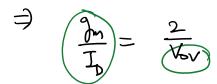
to Set 4 1

Propose 2x slower than

of Really need to check the lataskeet /sims for form or below - FINFET (CITAM)

Vous sets the speed of BN of the design god speed Vous 50% of Von





Im design metholology.

Etter fix Vov for a design or fix (2m)

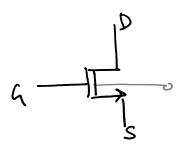
Rower Sind Variations

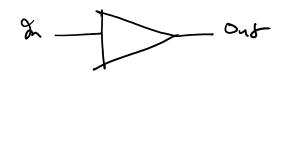
Position

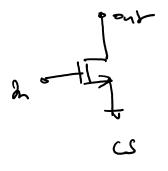
Tophy

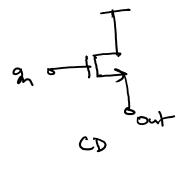
Output

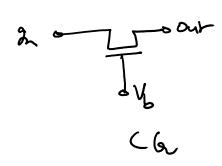
Impodance Speed Soiry

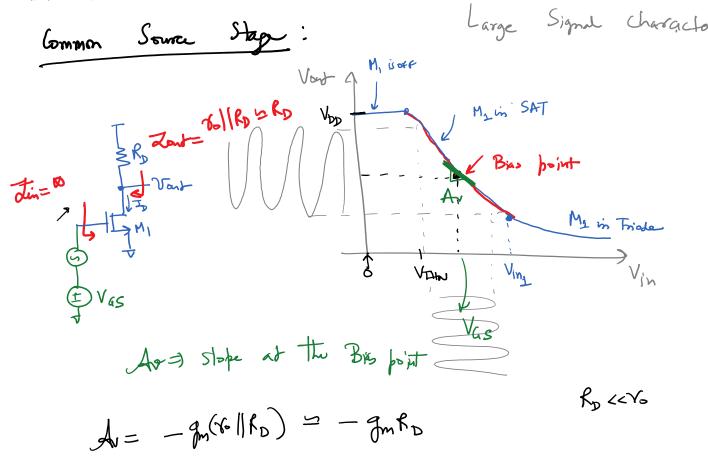


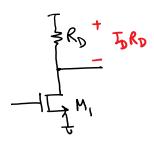












JAVE gmRD

J =>

R_DP

Current Mirror

Load

20 3 3 T

Vbinsp + Vsp, sat-

- John Son