ECE SIS- Lecture 3

Thursday, August 30, 2018 11:02 AM

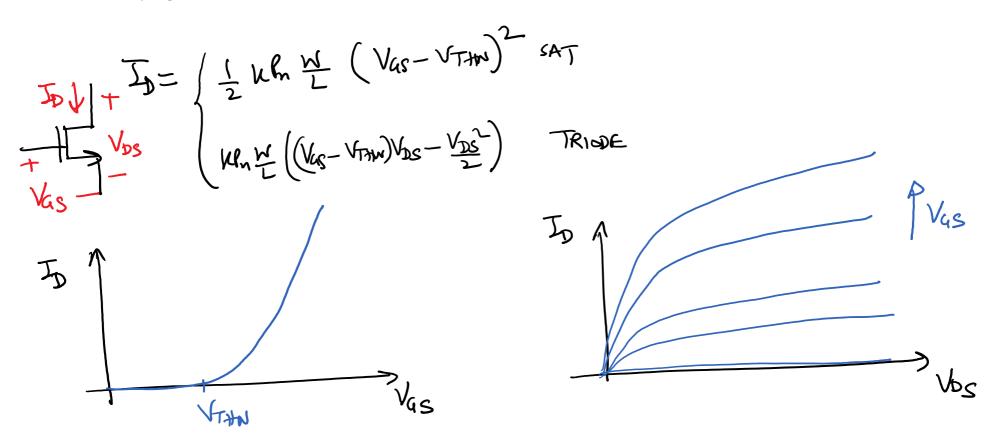
gm, gmb, To

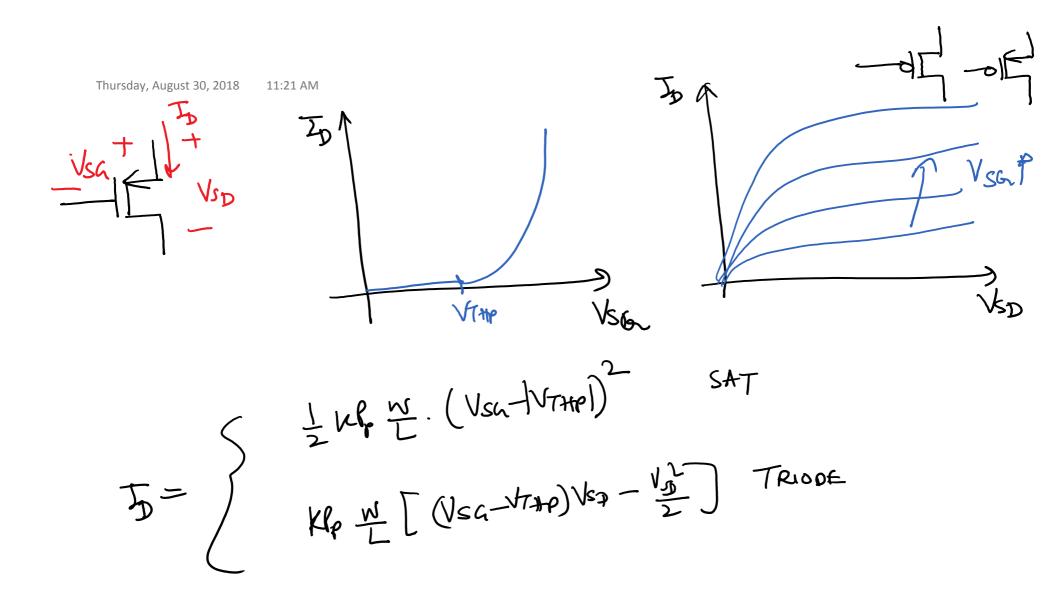
Ar Analypis D Draw the DC faicture > shard ac sources > open ac current Find Bias points for all devices Using De values from Dy find small-signal farameters (gm, vo, etc) for all "Linearization step" Ac analysis 3 Doard de ficture -> seplace devices by Small Degrid models -> Shord all De vottages sources So Solve to

New Section 4 Page 1

L's spen all DC current cources Ar values

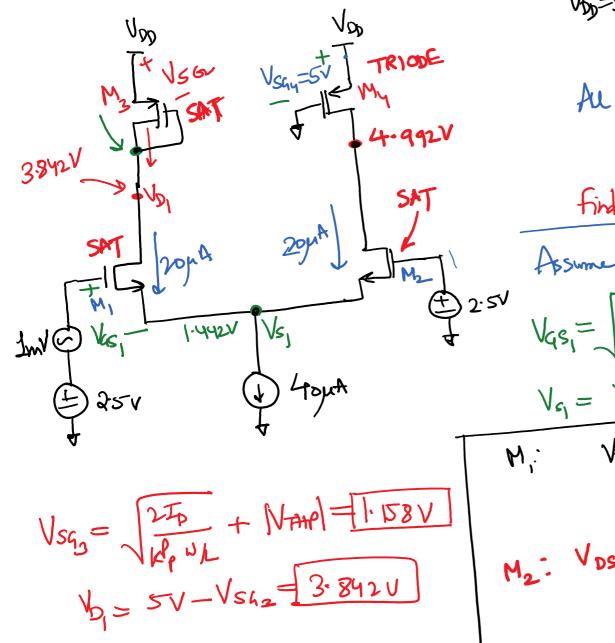
Thursday, August 30, 2018 11:19 AM





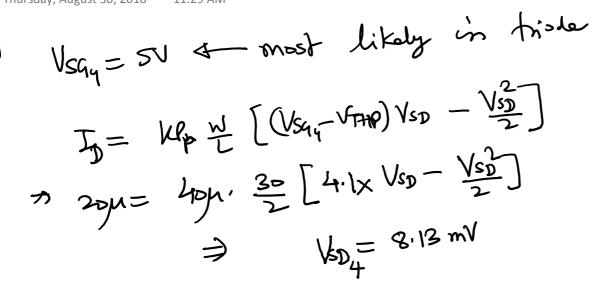


11:12 AM

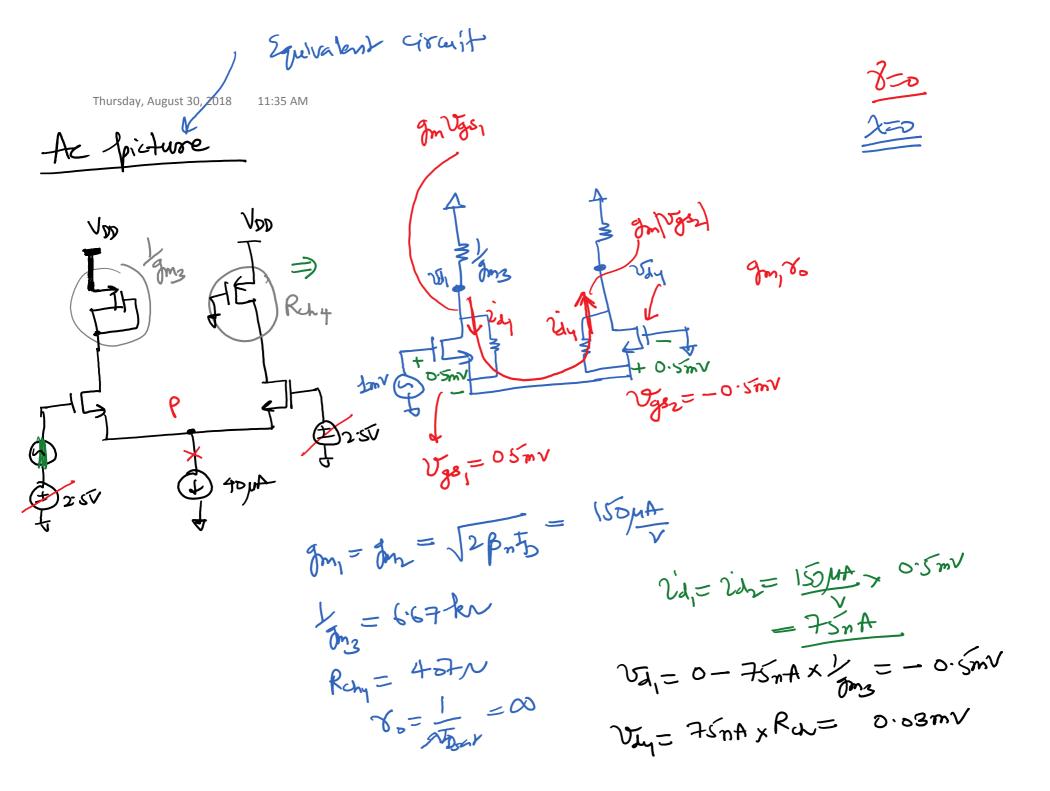


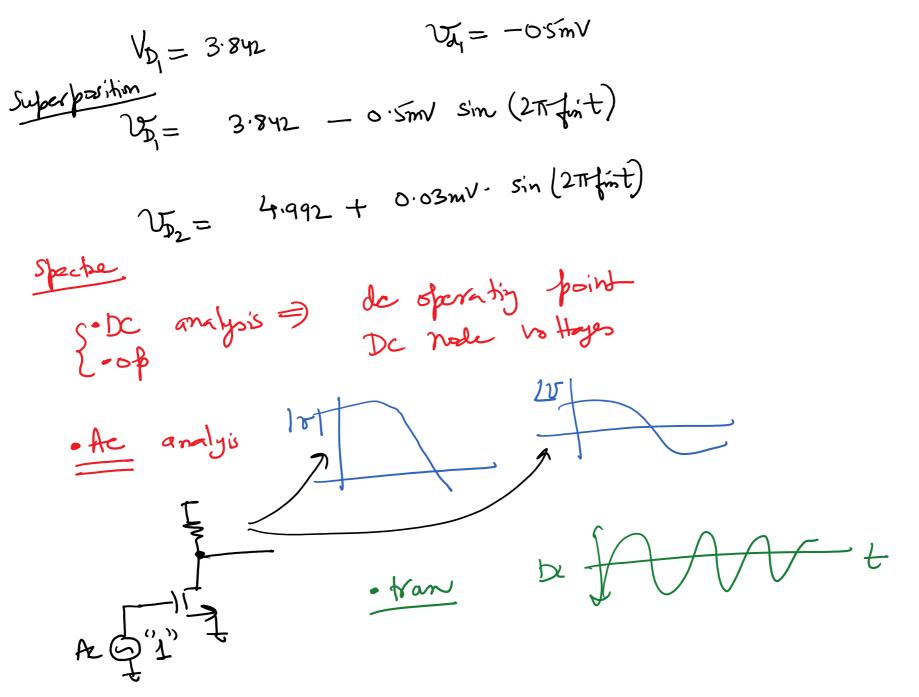
$$\begin{split} & V_{05} = SV \quad & V_{01} = 120\mu^{A} \quad & V_{01} = 40\mu^{A} \\ & V_{01NV} = 8000 \text{ mV}, \quad & V_{01P} = 900 \text{ mV} \\ & AU \quad NMDS \rightarrow 10 \\ & 100 \text{ MDS} \rightarrow 10 \\ & 100 \text{ MDS} \rightarrow 20 \\ & 100 \text{ MOS} \rightarrow 20 \\$$

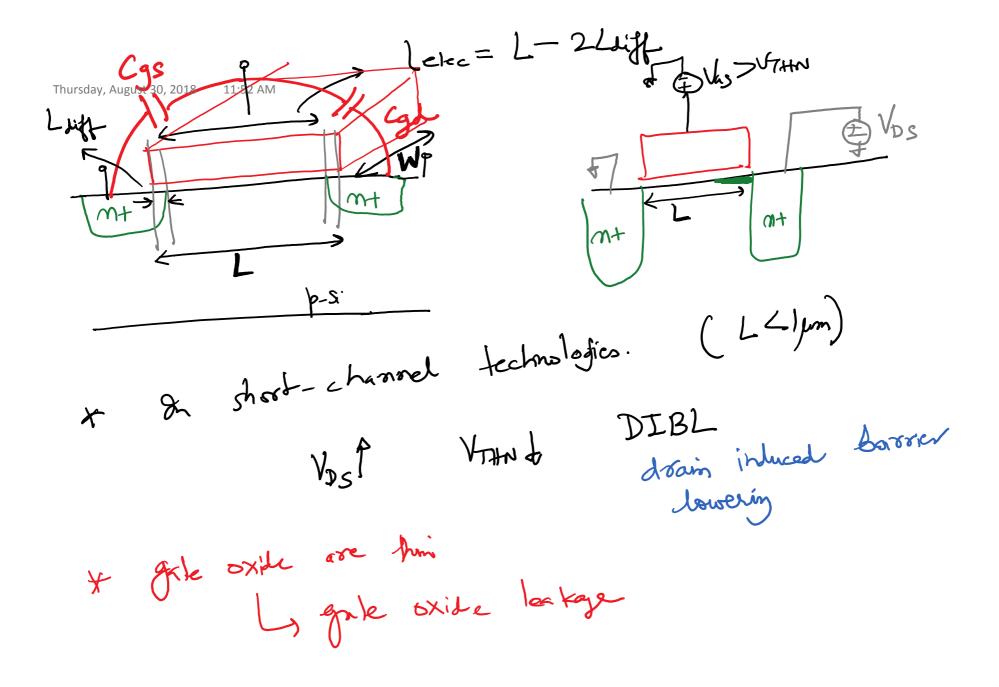
Thursday, August 30, 2018 11:29 AM

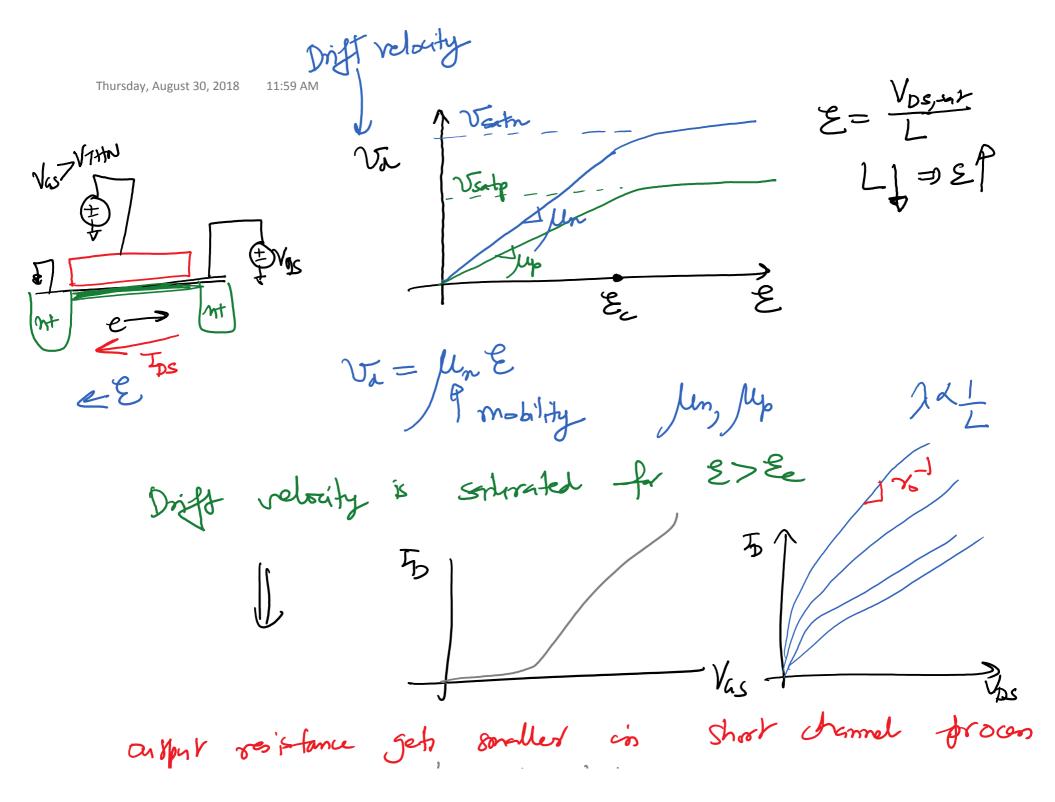


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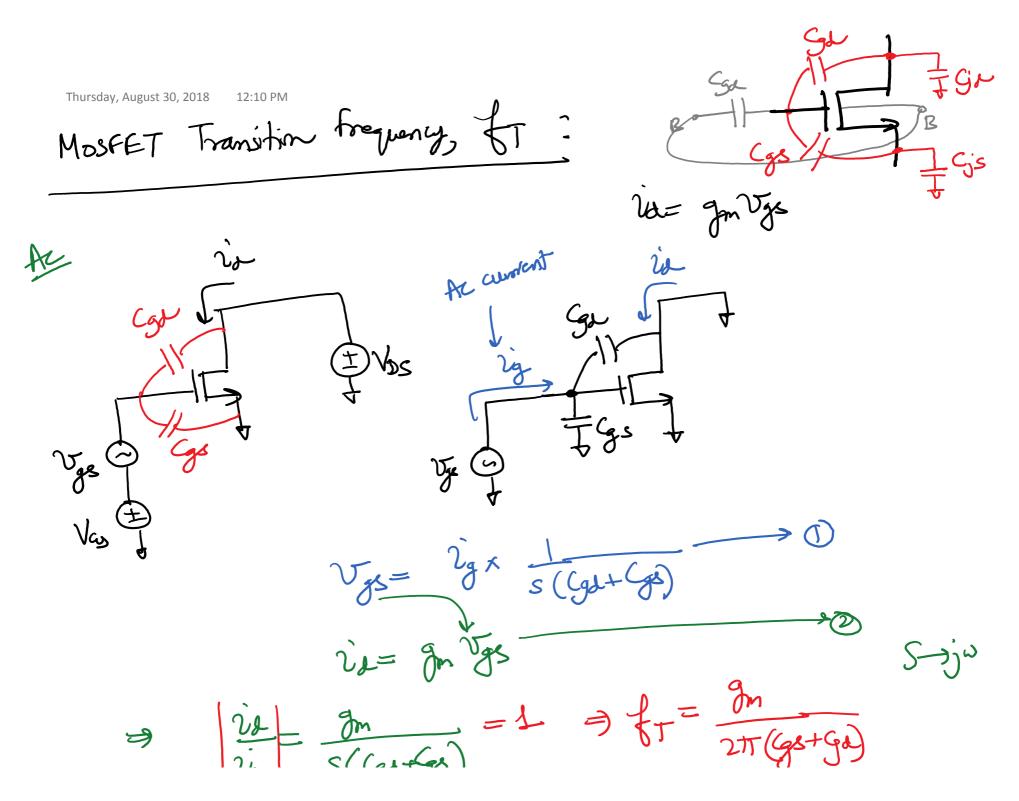






New Section 4 Page 10

good with Lt



New Section 4 Page 12

24 S(CgarGgs) = 5 5 5T 2TT (GetGa) 24 S(CgarGgs) Transition former IJ