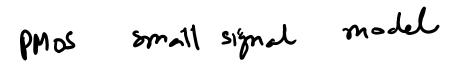
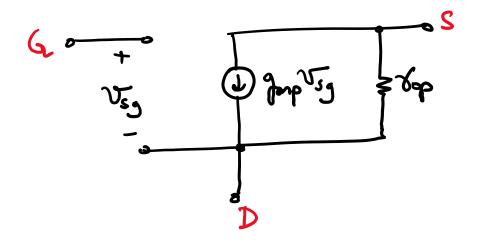
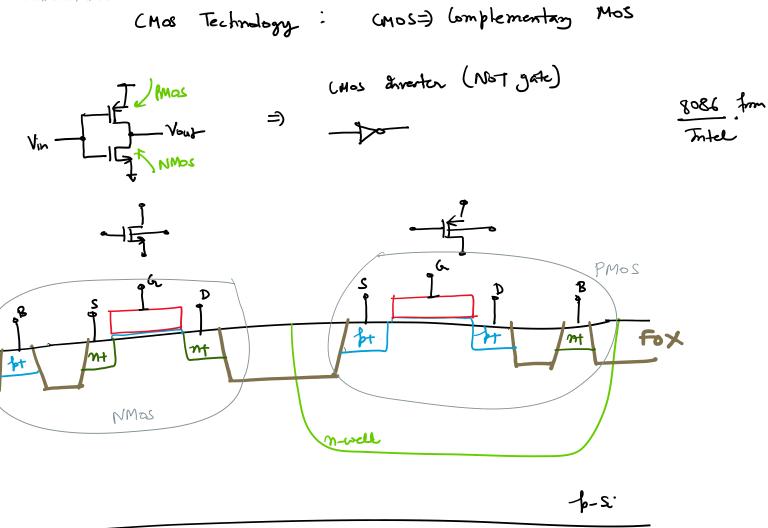


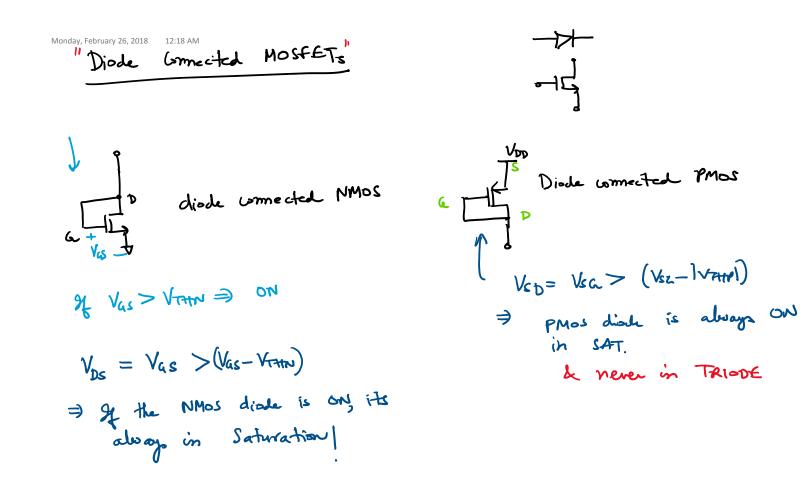
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Salation PMDS



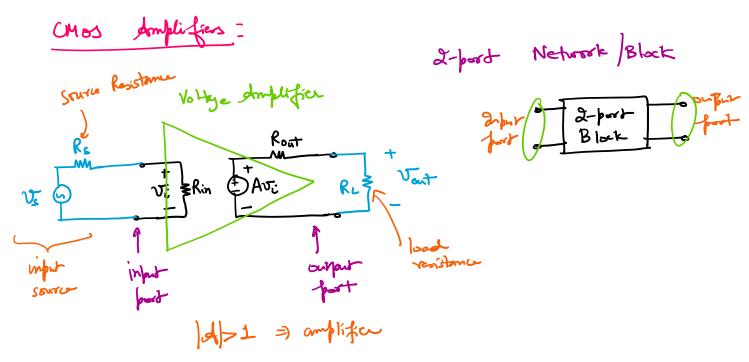






Chapter 16 [clone of chapter 7] of the Textbook

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Gleat voltage struptifier: Ly At the input, the circuit must operate as a nettoneted as cense the input voltage without disturbing the previous stoge (shouldn't back the previous stoge) $V_{\vec{c}} = \frac{R_{in}}{R_{in} + R_s} \cdot V_s \implies R_{in} = ?$ $= \frac{1}{1 + \frac{R_c}{R_{in}}} \cdot V_s \implies V_s = V_s$ if $R_{in} \to \infty$ Ly Similarly for an ideal voltage amplifier, we desire $R_{out} \to \infty$ Gill of the output voltage must oppen

all of the about tottige must be across the load.

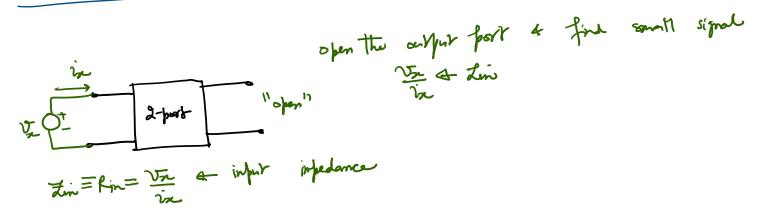
. 0. ____

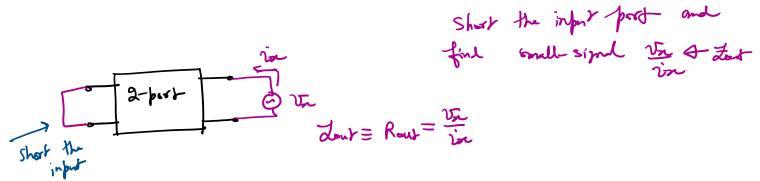
Rin to, Rant -> 0

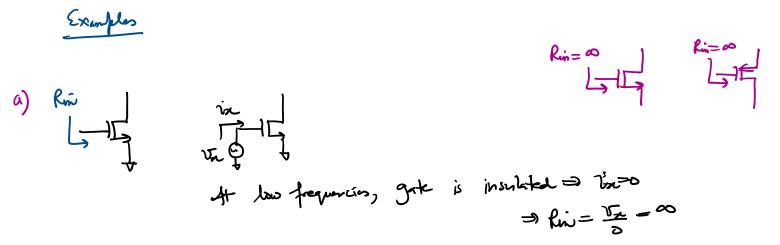
Rin-300, Kart-30

$$V_{out} = A\left(\frac{kin}{R_{s}+R_{in}}\right)\left(\frac{R_{L}}{R_{out}+R_{L}}\right)V_{s} \Longrightarrow Av_{s}$$
 iff $\frac{R_{in}-30}{R_{out}-30} \ll$
 4 Important to estimate) analyze input a actual impedances of
amplifiers

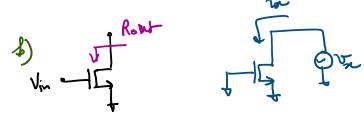
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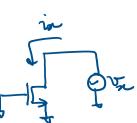






Rout, "looking into" the drain







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