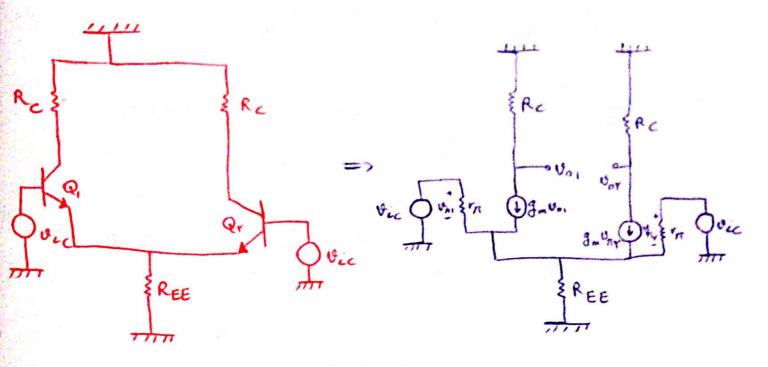
EP Se13

Dr. Fakhar Zadeh





$$v_{\pi i} = v_{\pi Y}$$
 $V(g_m + \frac{1}{r_{\pi}})v_{\pi} = \frac{v_{ic} - v_{\pi}}{R_{EE}}$ $v_{oi} = -g_m v_{\pi} R_c$

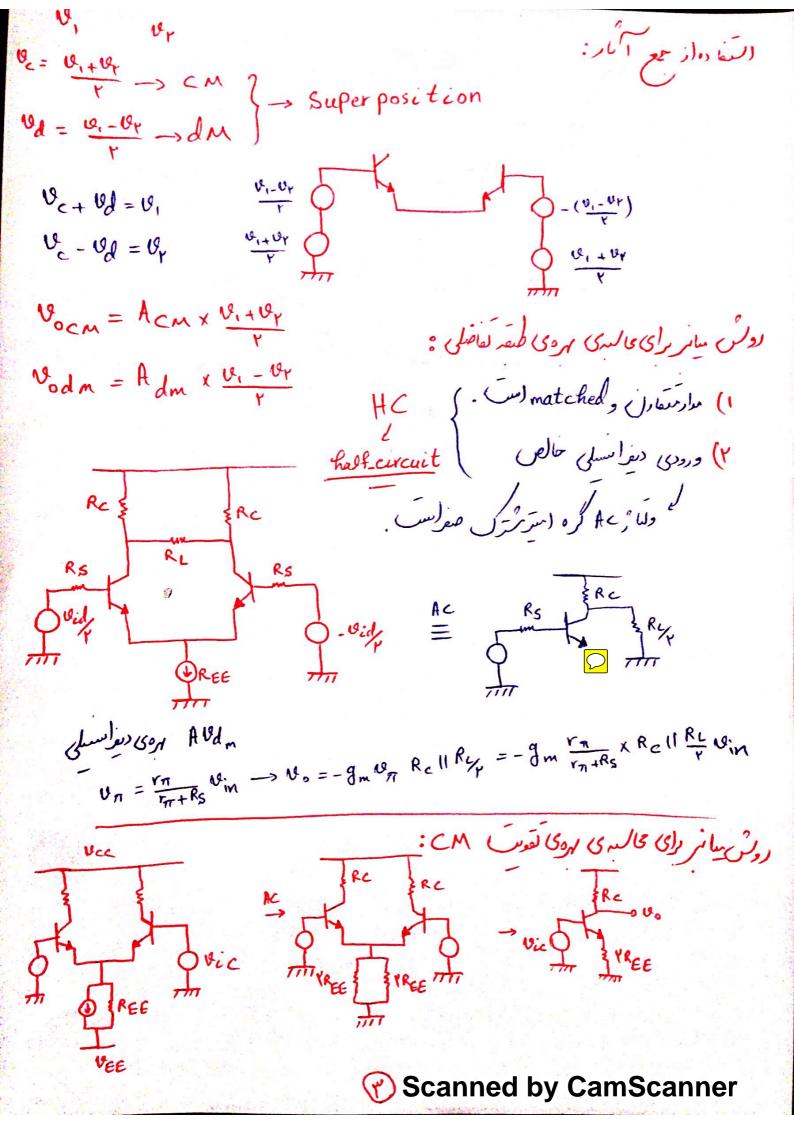
$$\Rightarrow V_0 = -g_m R_C \left(\frac{V_{iC/R_{EE}}}{Y(g_m + \frac{1}{r_N} + \frac{1}{r_N})} \right) \Rightarrow A V_{cn} = \left| \frac{-g_m R_C}{Y(g_m + \frac{1}{r_N}) R_{EE} + 1} \right| <<1$$

مل فض کسد ورودهای دندانسلی ملی و این و را مراراعال کسم.

ادام موی بعد!

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$$V_{i_1} = V_{i_1} \rightarrow V_{o_1} = V_{o_1}$$

$$V_{i_1} = V_{i_1} \rightarrow V_{o_1} = V_{o_1}$$

$$A_{C_i} V_E = (ie_1 + ie_1) R_{EE}$$

$$V_E = Y_{EE} = ie_1$$

$$V_{T_1} = \frac{V_{i_1} \times V_{T_1}}{V_{T_1} + (\beta_{+1}) Y_{EE}} \rightarrow V_0 = -g_m R_C V_{T_1}$$

$$A_{IJ} = \frac{-g_m R_C Y_{T_1}}{V_{T_1} + Y_{T_1} + Y_{T_2}} = \frac{-R_C}{Y_{EE} + Y_{G_m}}$$

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