برای و می و کانی نوب کنده و ما 1Aal S (S), W (5) = 16 dw/ A (S), 5 = 0 () dw/ Willy) (Job) - 100 Wijo je S/ Derre capacitanes nj f By pass & Capa cutur Capa cutur Wi 00 60 00

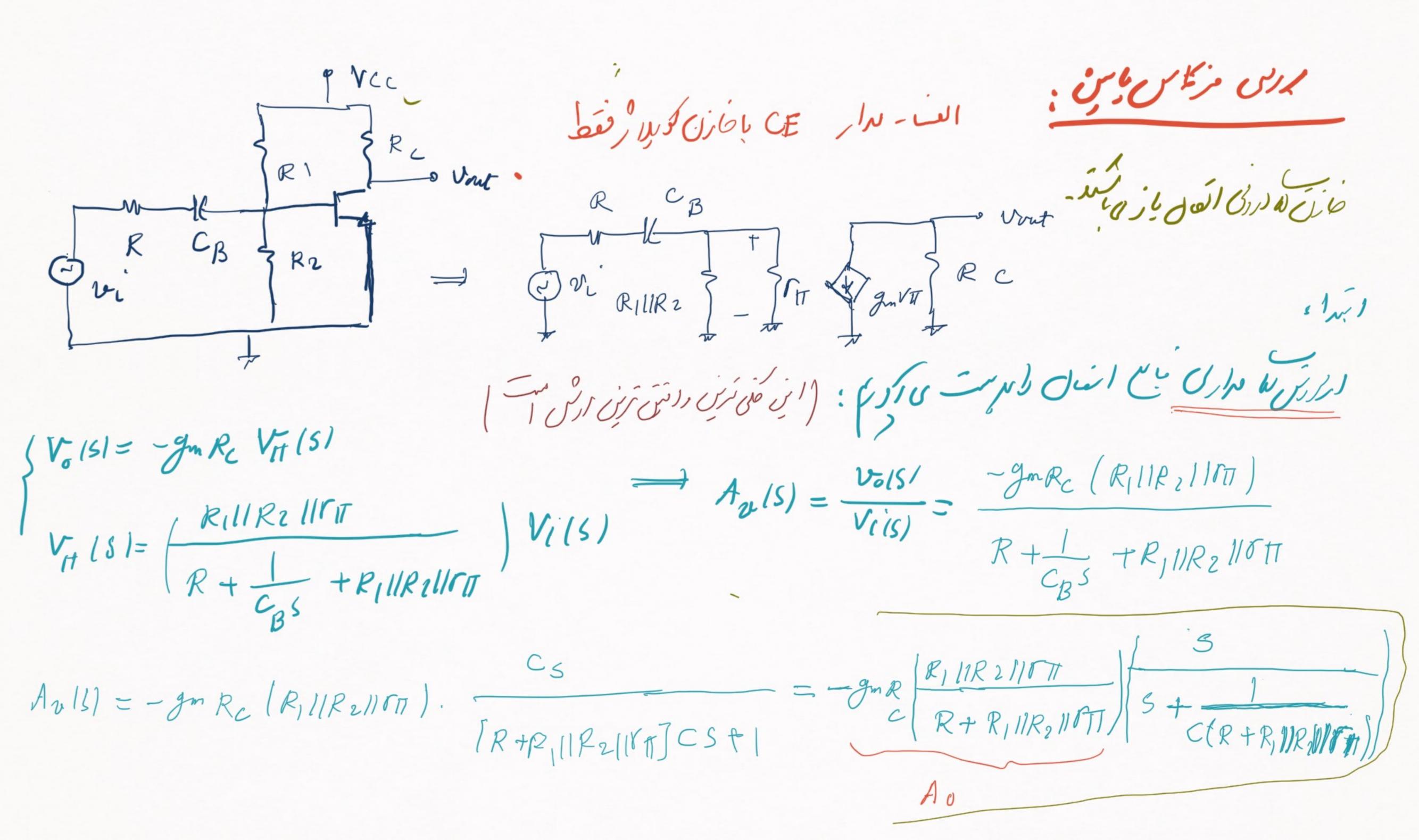
$$A_{L}(S) = A_{0} A_{L}(S) A_{H}(S)$$

$$A_{L}(S) = \frac{(S - 8_{1})(S - 8_{2}) \cdots (S - 8_{2})}{(S - P_{1})(S - P_{2}) \cdots (S - P_{n})} \Rightarrow A_{H}(S) = \frac{(1 - \frac{S}{8_{1}}) \cdots (1 - \frac{S}{8_{n}})}{(1 - \frac{S}{8_{1}}) \cdots (1 - \frac{S}{8_{n}})}$$

$$A_{L}(S) = \frac{(S - 8_{1})(S - 8_{2}) \cdots (S - P_{n})}{(S - P_{1})(S - P_{1})} \Rightarrow A_{H}(S) = \frac{(1 - \frac{S}{8_{1}}) \cdots (1 - \frac{S}{8_{n}})}{(1 - \frac{S}{8_{1}}) \cdots (1 - \frac{S}{8_{n}})}$$

$$A_{L}(S) = \frac{(S - 8_{1})(S - 8_{2}) \cdots (S - 8_{n})}{(S - P_{1})(S - P_{1})} \Rightarrow A_{H}(S) = \frac{(1 - \frac{S}{8_{1}}) \cdots (1 - \frac{S}{8_{n}})}{(1 - \frac{S}{8_{1}}) \cdots (1 - \frac{S}{8_{n}})}$$

$$A_{L}(S) = \frac{(S - 8_{1})(S - 8_{2}) \cdots (S - R_{n})}{(S - P_{1})(S - P_{1})} \Rightarrow A_{H}(S) = \frac{(S - 8_{1})(S - R_{1})}{(S - P_{1})(S - P_{1})} \Rightarrow A_{H}(S) = \frac{(S - 8_{1})(S - R_{1})}{(S - P_{1})(S - P_{1})} \Rightarrow A_{H}(S) = \frac{(S - 8_{1})(S - R_{1})}{(S - P_{1})(S - P_{1})} \Rightarrow A_{H}(S) = \frac{(S - 8_{1})(S - R_{1})}{(S - P_{1})(S - P_{1})} \Rightarrow A_{H}(S) = \frac{(S - 8_{1})(S - R_{1})}{(S - P_{1})(S - P_{1})} \Rightarrow A_{H}(S) = \frac{(S - 8_{1})(S - R_{1})}{(S - P_{1})(S - P_{1})} \Rightarrow A_{H}(S) = \frac{(S - 8_{1})(S - R_{1})}{(S - P_{1})(S - P_{1})} \Rightarrow A_{H}(S) = \frac{(S - 8_{1})(S - R_{1})}{(S - P_{1})(S - R_{1})} \Rightarrow A_{H}(S) = \frac{(S - 8_{1})(S - R_{1})}{(S - P_{1})(S - R_{1})} \Rightarrow A_{H}(S) = \frac{(S - 8_{1})(S - R_{1})}{(S - P_{1})(S - R_{1})} \Rightarrow A_{H}(S) = \frac{(S - 8_{1})(S - R_{1})}{(S - P_{1})(S - R_{1})} \Rightarrow A_{H}(S) = \frac{(S - 8_{1})(S - R_{1})}{(S - P_{1})(S - R_{1})} \Rightarrow A_{H}(S) = \frac{(S - 8_{1})(S - R_{1})}{(S - R_{1})(S - R_{1})} \Rightarrow A_{H}(S) = \frac{(S - 8_{1})(S - R_{1})}{(S - R_{1})(S - R_{1})} \Rightarrow A_{H}(S) = \frac{(S - 8_{1})(S - R_{1})}{(S - R_{1})(S - R_{1})} \Rightarrow A_{H}(S) = \frac{(S - 8_{1})(S - R_{1})}{(S - R_{1})(S - R_{1})} \Rightarrow A_{H}(S) = \frac{(S - 8_{1})(S - R_{1})}{(S - R_{1})(S - R_{1})} \Rightarrow A_{H}(S) = \frac{(S - 8_{1})(S - R_{1})}{(S - R_{1})(S - R_{1})} \Rightarrow A_{H}(S) = \frac{(S - 8_{1})(S - R_{1})}{(S - R_{1})(S - R_{1})} \Rightarrow A_{H}(S) = \frac{(S - 8_{1})(S - R_{1})}{(S - R_{1})(S - R_{1})} \Rightarrow A_{H}(S) = \frac{(S - 8_{1})(S - R_{1})}{(S - R_{1})(S - R_{1})} \Rightarrow A_{H}(S) = \frac{(S - 8_{1})(S - R_{1})}{(S - R_{1})(S - R_{1})} \Rightarrow A_{H}(S) = \frac{(S - 8_$$



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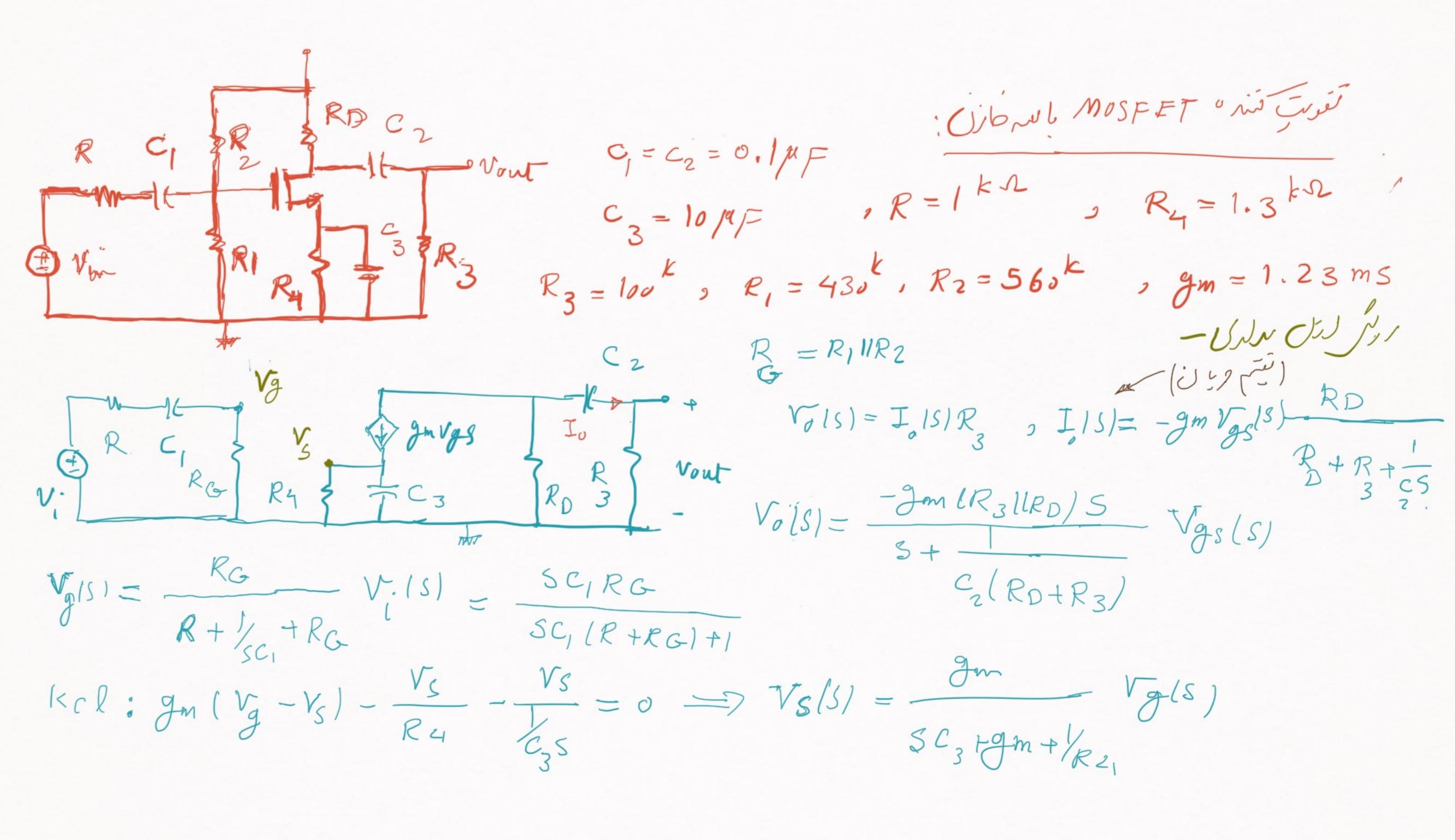
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CLRITRILITRILI $A_{v(s)} = \frac{v_{o(s)}}{v_{i(s)}} = A_{o}\left[\frac{s-z}{s-p}\right], A_{o} = \frac{v_{o(s)}}{s-p}, A_{o} = \frac{v_{o(s)}}{s-p}$: As No A = \frac{V_0}{V_A} \cdot \frac{V_A}{V_1} = -g_m RC \cdot \frac{P_1 || R_2 || V_1|}{P_1 || R_2 || V_1| + R} · P cue vo

 $y = 0 \implies Cs + \frac{1}{2} = 0 \implies Cs + \frac{1}{2} = 0 \implies S = \frac{1}{2}$ $y = 0 \implies Cs + \frac{1}{2} = 0 \implies S = \frac{1}{2}$ $y = 0 \implies Cs + \frac{1}{2} = 0 \implies S = \frac{1}{2}$ $\frac{1}{\sqrt{N}} = \frac{1}{\sqrt{N}} = \frac{1$

(5-6) mé july du doil eizzinon mo ja po = o w de july diffe = o - vier - vier - vier en la (8+6) me o primer de la como d

" De COSO CE 16 - CE RC Vout (--, Ed, HVD) Whole Jij Ap = Vols! Le o o, an In wije - dily. $P^{2} = P^{c} = A_{o} \frac{(\xi - Z)}{(\xi + P)}$ 10/1/2 William is - (in) : Ao Co $P = \frac{-1}{RegC}$ $Reg = RE II \left(\frac{|\Upsilon_T + R_1|/R_2|/R}{1 + \beta_0} \right)$ $Reg = RE II \left(\frac{|\Upsilon_T + R_1|/R_2|/R}{1 + \beta_0} \right)$ $\mathcal{Z} = REII \frac{1}{SC_E} = \infty \rightarrow \mathcal{X} = 0 \rightarrow \mathcal{$ into Olije - Polij



$$V_{gs}(s) = V_{g}(s) - V_{s}(s) = V_{g}(1 - \frac{g_{m}}{sc_{3} + g_{m} + \frac{1}{R_{4}}}) = \frac{sc_{3} + \frac{1}{R_{4}}}{sc_{3} + g_{m} + \frac{1}{R_{4}}}$$

$$A_{u}(s) = \frac{V_{o}(s)}{V_{i}(s)} = -\left[g_{m} LR_{3} LR_{D}\right] \frac{RC_{0}}{R + RC_{0}} = \frac{s^{2}[s + \frac{1}{C_{3}R_{4}}]}{[s + \frac{1}{C_{1}(R_{1} + RC_{0})}][s +$$

 $P_{1} = \frac{-1}{Ref_{1}C_{1}} \Rightarrow Ref_{1} = R + RG \implies P_{1} = \frac{-1}{(R + RG_{1})C_{1}} \Rightarrow RG_{1} = \frac{-1}{RG_{2}C_{2}} \Rightarrow RG_{2} = RG_{3} + RG_{2} \implies P_{2} = \frac{-1}{C(R_{2} + RG_{1})} \Rightarrow RG_{2} = RG_{3} + RG_{2} \Rightarrow RG_{2} = RG_{3} + RG_{3} \Rightarrow RG_{2} \Rightarrow RG_{3} \Rightarrow RG_{3$ $P_2 = \frac{-1}{Rcf_2C_2}$, $Rcg_2 = R_3 + R_D \implies P_2 = \frac{-1}{C_1(R_3 + R_D)}$ $P_{3} = \frac{-1}{R_{2}q_{3}c_{3}}$, $R_{2}q_{3} = R_{2}11\frac{1}{g_{m}} \implies P_{3} = \frac{-1}{c_{3}(1/g_{m}11R_{4})}$ ساعد سریو که تعد و وی می میاری میاند که از در این رای این در این می مادری مامیر در الا Publish This die die - in de disp : folds!

 $Z_1 = Z_2 = 0$, $Z_3 \times -77$ rads $\longrightarrow 12.3$ Hz $P_1 = -23 \text{ rad/s}$ $P_2 = -96 \text{ rad/s}$ $P_3 = -200 \text{ rad/s}$ 32HZ $A_{u}(s) = A_{o} \frac{\xi^{2}(\xi + 77)}{(\xi + 27)}$: bij 666 dé 1 60 (5+23)(5+96)(5+200) 1200) Les : (200) 1 July 600 1 Ju AHISI= A. (1+ 3/21) 2 N 98 MHZ (1+5/2)(1+5/2) 2P, ~5.3 MHZ (sed) NO16181 · on Jes Jean in de P2 3 59 MH 7

: vi-isodis sus in Bode Isi 1 AwldB - 20 dec Alb -40 dp مهنای بالر درار 20 distee 12.3 15.3 32 HZ 7=22=0 § 2 (\$ + Z3) -w Auls) = Ao 15+P1)(S+P1)(S+P3)

1 of fe b P3 words b will in the work point pai

: O'U' 'L' L'U' CE Ju RCCB RS RS PCE RL Vout DIN BET US JOHN - UTIVIT Coid Trist - Volst duit viv $(C_{\rm B}, C_{\rm E})$ is distributed in the solution of the so مهار الله ورای طری دفیق مخراهرود. المكانى - دانى ماردرى كترى وقتى كر ازرى دى وكان كرازال لذل مامه ولذال كار · De Mejolist dés

سر المراحد المراحد ور في مناهاي د أنون عي رادال من كرادالم والمراق وفي رالاو در الدي المراق والمراق وا 0/090) of 1/090) of 1/090) who cold is cold is the cold of the col CB ilou de ser li - in BET Unstrol OS BONINITION CB oCE $CB = \begin{cases} P_{e} = P_{e}$ CE 1.001 =) Reg = [TI+(1+B,)RF] [IR]