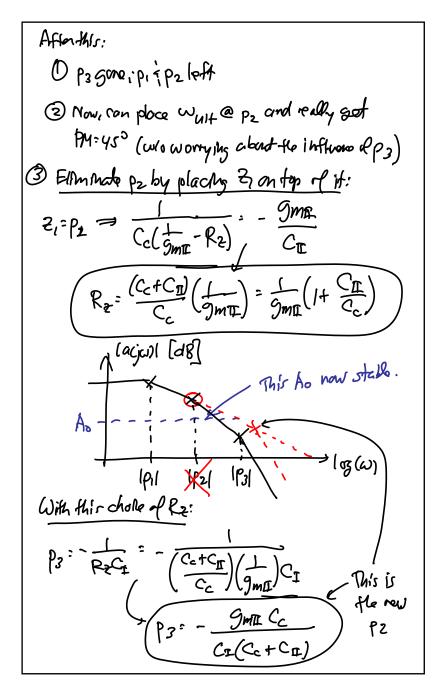
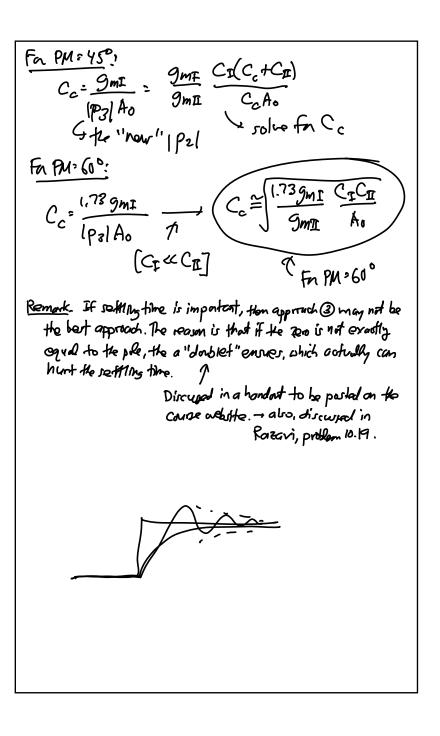
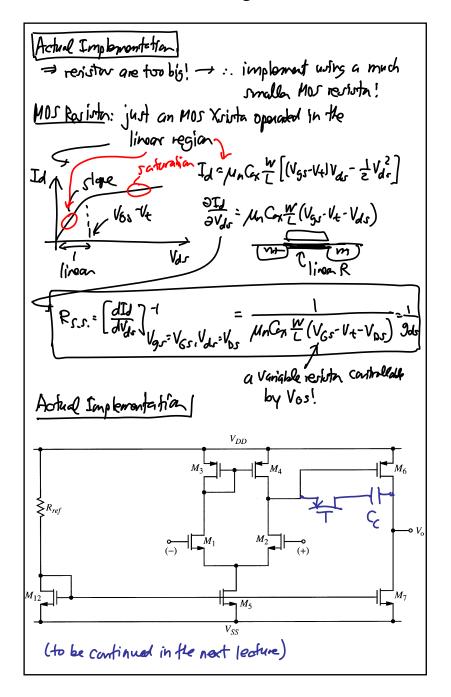
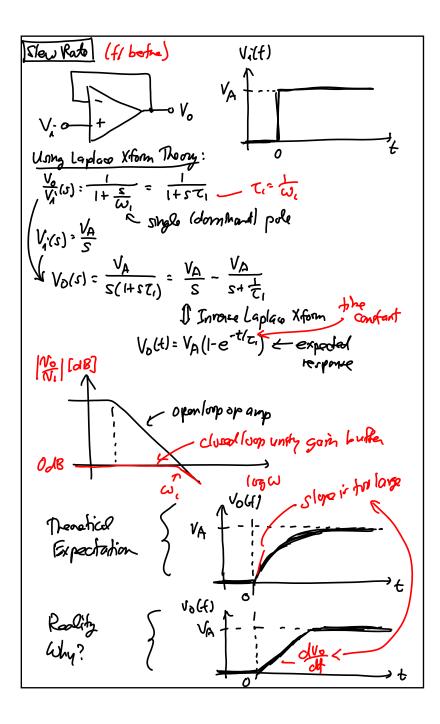


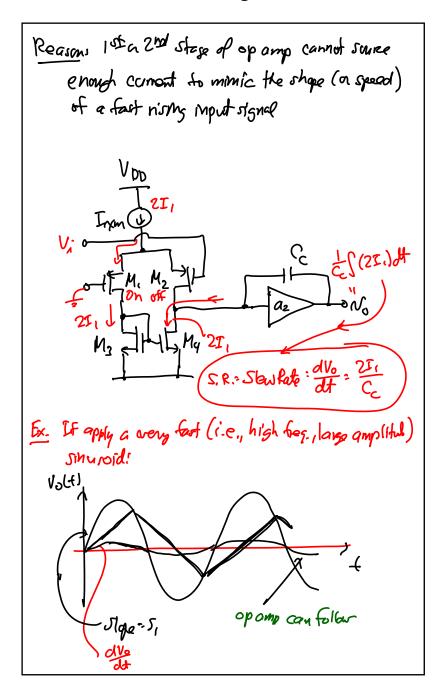
 $\beta_{3}^{2} = -\frac{1}{R_{2}C_{E}} \qquad \text{pole due fo } R_{2}$ $Z_{1}^{2} = \frac{1}{C_{c}(\frac{1}{4m\pi} - R_{2})} \qquad (\text{funchion of } R_{2})$ Zero Placement Strategier | 1) Elimote & -+ unne it to 00 : $Z_{1}^{c}\left(\frac{1}{g_{mf}}-R_{z}\right) \rightarrow \infty \quad \text{when} \quad R_{z}^{c} \cdot \frac{1}{g_{mf}}$ $\begin{array}{c} \overbrace{Afilondoing this: } p_3 \cong - \underbrace{g_{m_{\overline{L}}}}_{C_{\overline{L}}} \end{array} \begin{array}{c} U_{Mally_1} \\ C_{\overline{L}} \end{array} \begin{array}{c} C_{\overline{L}} \xrightarrow{\mathcal{O}_{C_{1}}} \\ p_2 \cong - \underbrace{g_{m_{\overline{L}}}}_{C_{\overline{L}}} \end{array} \begin{array}{c} U_{Mally_1} \\ \vdots & \vdots \\ \end{array} \begin{array}{c} C_{\overline{L}} \xrightarrow{\mathcal{O}_{C_{1}}} \\ \overbrace{\mathcal{O}_{\overline{L}}} \xrightarrow{\mathcal{O}_{C_{1}}} \\ \end{array} \end{array}$ So these polor are often very for apart. (but be careful) This is good ... but we could do better ... (2) Eliminate P3 by plocing 2, on top of it: $Z_1 > P_3 = C_{c} \left(\frac{1}{2m_{f}} - R_{2} \right) = -\frac{1}{P_{z}C_{z}}$ Res gmt (1- CI





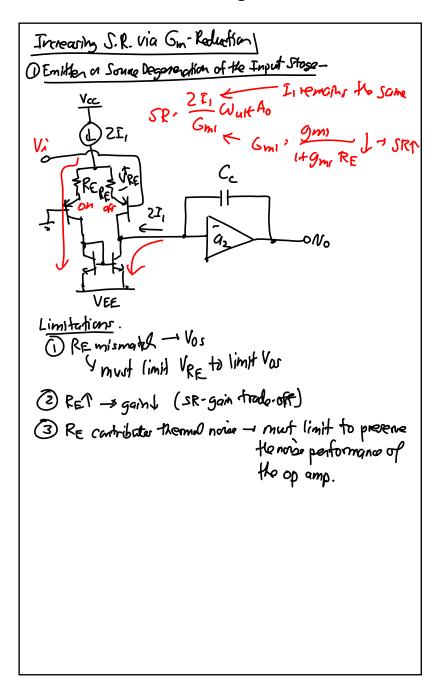


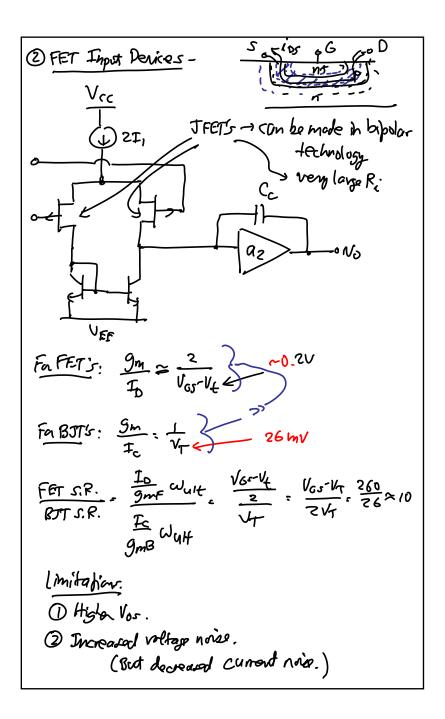




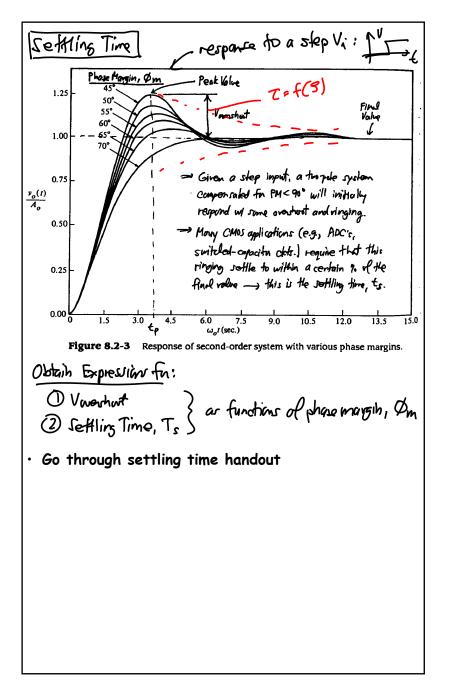
In terms of derig veridles:
S.R. =
$$\frac{dV_0}{dt} = \frac{I_{Km}}{C_{c,A}} = \frac{I_{Km}}{G_{m_1}} W_{ultA_0} = S.R.$$

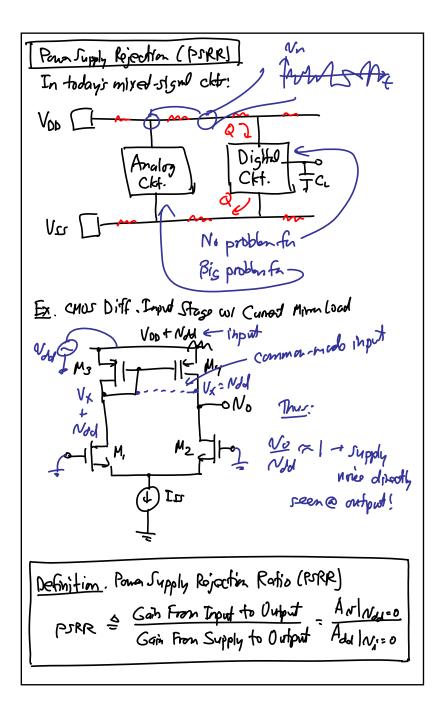
 $C_c = \frac{G_{m_1}}{W_{ult}A_0} \ll clared - [sop gain the weather of the clared - [sop gain the$





CTN 4/17/12





Thus, for the above excomple : PSRR = <u>gm2(rozlifoy</u>) = PSRR = <u>gm2(rozlifou</u>) Por more complicated encuits, much map work is (* to mole things earler, use o unity goin configuration Can also soft PSRR = f(w) involved.