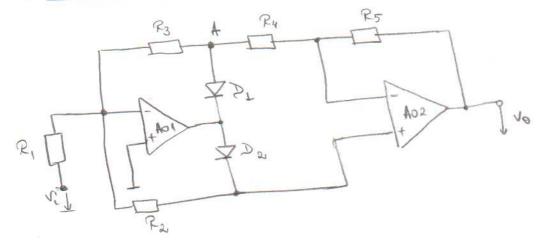
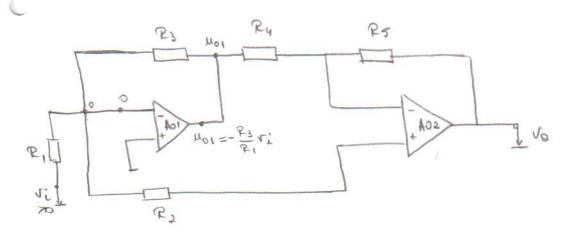
(Paolelema 98)

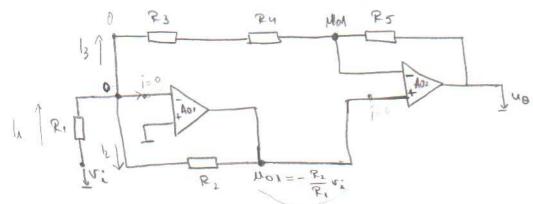


I) Vi>o => Noi <0 => {D, comduce



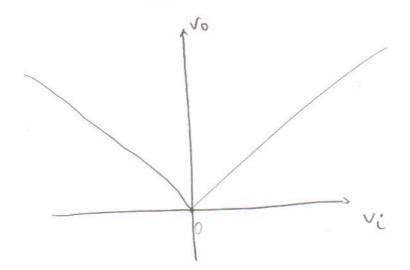
$$\mu_0 = -\frac{R_5}{R_4}, \quad \mu_{01} = -\frac{R_5}{R_4}, \quad \left(-\frac{P_3}{R_1}\right) \mu_i = \frac{R_5 P_3}{R_4 R_1} \mu_i$$

 $\overline{\mathbb{I}}$ )  $V_{i}$   $\langle 0 = \rangle \mu_{0}, \rangle_{0} \Rightarrow \begin{cases} \mathcal{D}_{i} & \text{lelocate} \\ \mathcal{D}_{i} & \text{romdua} \end{cases}$ 



$$\mu_0 = \left(1 + \frac{\mathcal{R}_5}{\mathcal{R}_3 + \mathcal{R}_4}\right), \, \mu_0 = -\frac{\mathcal{R}_2}{\mathcal{R}_1} \left(1 + \frac{\mathcal{R}_5}{\mathcal{R}_3 + \mathcal{R}_4}\right) \, \mathcal{V}_2^2$$

$$1_1 = 1_2 + 1_3$$
 $1_1 = \frac{V_i}{k_1}$ 
 $1_2 = \frac{-M_0 \cdot 1}{k_2}$ 
 $1_3 = \frac{-M_0 \cdot 1}{k_2 + k_1}$ 

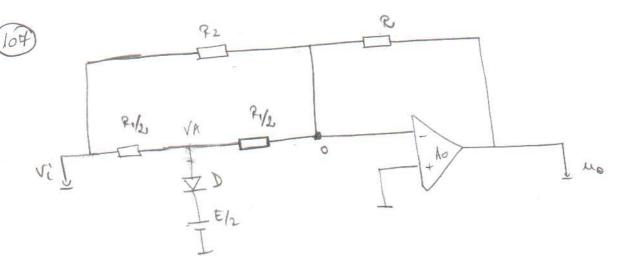


i) 
$$V_{\theta} = -\frac{R}{R}V_{i}$$

$$0 = \frac{\mu_0}{R} + \frac{v_i - E}{R_2} + \frac{v_i}{R_i} \Rightarrow v_0 = \left(\frac{E - v_i}{R_2} - \frac{v_i}{R_i}\right) R = \frac{E}{R_2} R - \frac{v_i R \left(\frac{1}{R_i} + \frac{1}{R_2}\right)}{E - 2v_i}$$

$$= \frac{-R}{R_2} \qquad \qquad v_0 = \frac{E - v_i}{R_2} - \frac{v_i R \left(\frac{1}{R_i} + \frac{1}{R_2}\right)}{E - 2v_i}$$

 $\frac{1}{R}$ 

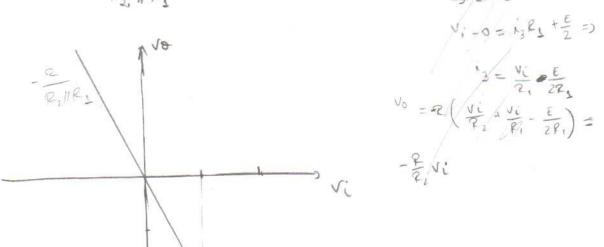


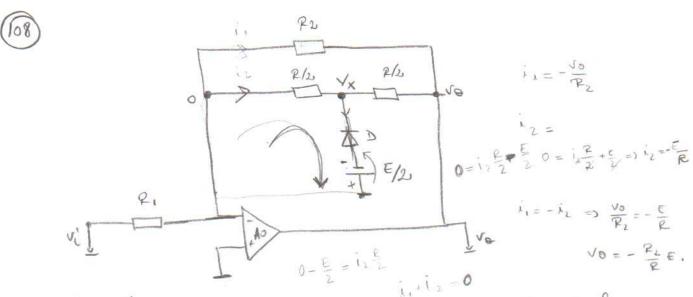
$$V_{A} = \frac{V_{i}}{\frac{P_{i}}{P_{i}}} = \frac{2V_{i}}{\frac{P_{i}}{P_{i}}} \cdot \frac{P_{i}}{P_{i}} = \frac{V_{i}}{2}$$

1) 
$$V_{4} > \frac{E}{2} \Rightarrow D$$
 romduce  $\left(\frac{V_{1}}{2} > \frac{E}{2} \Rightarrow V_{1} > E\right)$ 

ii) 
$$V_{A}(\frac{\epsilon}{2} 2) ) blocote (Vice)  $\frac{\epsilon}{\epsilon}$$$

i) 
$$V_{\theta} = -\frac{P}{P_2}V_1 - \frac{P}{P_1} \cdot \frac{E}{R} = -\frac{P}{P_2}V_1 - \frac{P}{P_2}E$$





$$V_{x} = \frac{\frac{V_{0}}{\frac{P}{2}}}{\frac{1}{P} + \frac{1}{P}} = \frac{2V_{0}}{P} \cdot \frac{P}{4} = \frac{V_{0}}{2} = -\frac{P_{2}}{P_{1}} \cdot \frac{1}{2} \cdot V_{1}$$

$$= \frac{V_{0}}{\frac{P}{2}} = \frac{2V_{0}}{P} \cdot \frac{P}{4} = \frac{V_{0}}{2} = -\frac{P_{2}}{P_{1}} \cdot \frac{1}{2} \cdot V_{1}$$

i) 
$$-\frac{R_2}{2R_1}$$
.  $V_i \leftarrow E = \frac{R_2}{2R_1}$   $V_i > E = V_i > \frac{2R_1}{R_2}$   $E \approx D$  comoling

ii) 
$$v_i \in \frac{2R_i}{R_2} \in \{-1\} \}$$
 belocato.