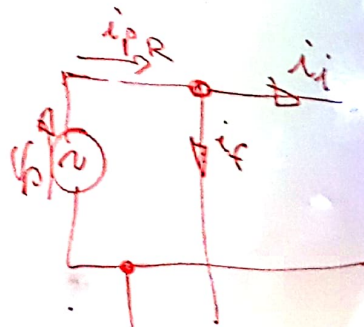
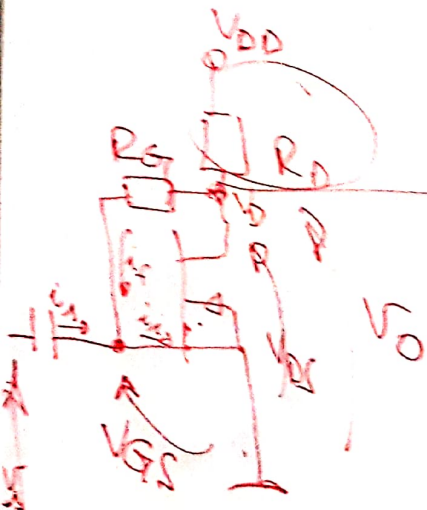


$$\vec{S}_A - S_f = (S_i) S_e$$

$$V_A - V_f = \bar{v}_i$$

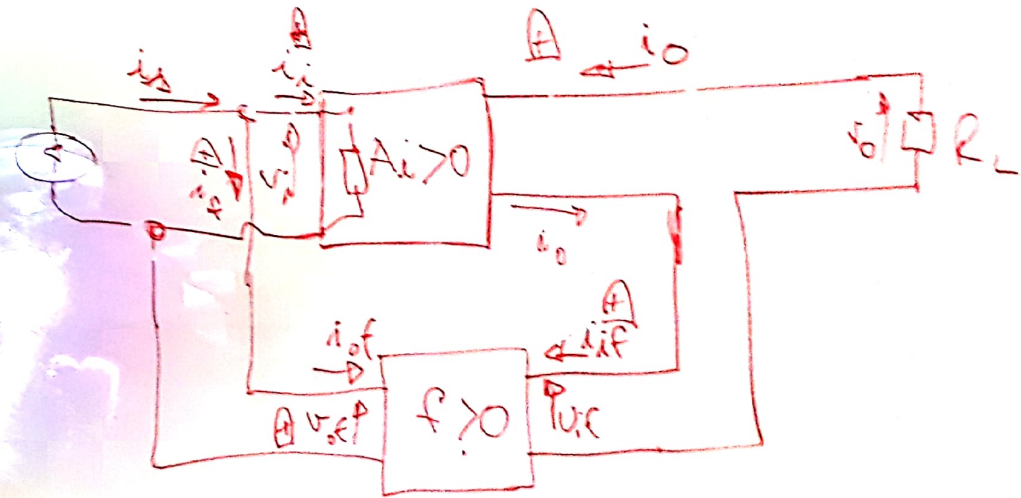
$$R_e = \frac{V_P}{i_{PR}} \ll R_{se} \quad \begin{matrix} (+) & (+) & (+) \\ i_A - i_f = i_i \end{matrix}$$

$$R_{se} = \frac{V_P}{i_{PR}}$$



$$i_{PR} = i_f + i_i$$

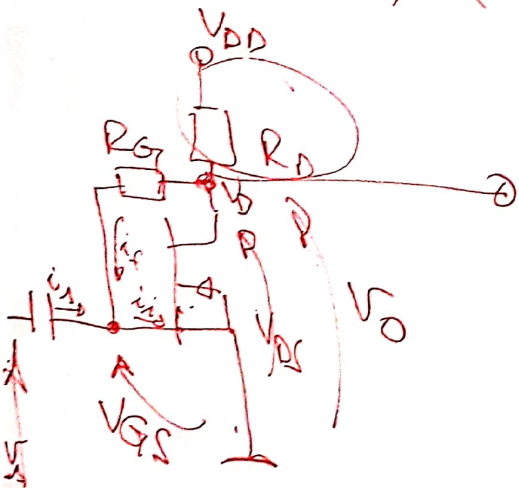
$$i_{PR} > i_{PR}$$



$$R_i \uparrow \downarrow$$

$$R_o \uparrow \downarrow (1 + \frac{1}{\mu})$$

$$a_f$$

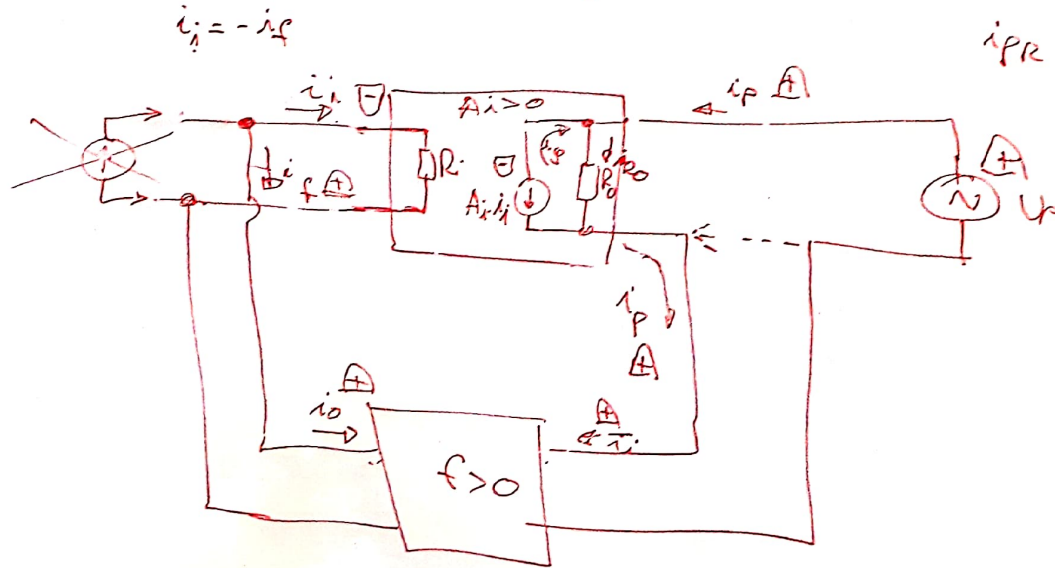


$$i_d - i_f = i_i$$

$$R_{osr} = \frac{V_P}{i_{psr}} = R_o$$

$$R_{or} = \frac{V_P}{i_{pr}} = R_{osr}$$

$$i_{pr} < i_{psr}$$



$$i_p - i_{pr} = i_{psr} = 0$$

$$i_{pr} = i_d - i_p$$

$$i_{pr} < i_{psr}$$