

$$m_1 = \sqrt[4]{\frac{1}{2}} = \sqrt[4]{\frac{1}{2}} - I_2(R_{aut}R_1) - V_0$$

Copación current pertentoction and liveritation

$$\overline{I_c + 1_c} = \overline{I_L + 1_L} - \frac{V_0 + V_0}{R}$$

DC: 
$$IC = I_L - \frac{V_O}{R} = 0 \Rightarrow I_L = \frac{V_O}{R}$$

[EU] Input current  $\frac{1}{\sqrt{2}} \int_{0}^{2} + \int_{0}^{2} = \left(I_{L} + \int_{L}^{n}\right) \left(D + \partial_{1}^{n}\right)$   $\frac{1}{\sqrt{2}} \int_{0}^{2} + \int_{0}^{2} = I_{L} \cdot D + \int_{0}^{2} \cdot D + I_{L} \cdot \partial_{1}^{n} + I_{L} \cdot \partial_{1}^{n} + I_{L} \cdot \partial_{1}^{n}$   $\frac{1}{\sqrt{2}} \int_{0}^{2} + \int_{0}^{2} = I_{L} \cdot D + I_{L} \cdot \partial_{1}^{n}$   $\frac{1}{\sqrt{2}} \int_{0}^{2} + \int_{0}^{2} +$ 

Should be  $d \leq 1$ 

Ol.) From corporcitor current equation in laplace donain:  $\tilde{I}_{c}(s) = \tilde{I}_{L}(s) - \frac{\tilde{V}_{o}(s)}{\tilde{v}} / \tilde{I}_{c}(s) = s \cdot C \cdot \tilde{V}_{o}(s)$  $s \cdot C \cdot \hat{V}_{o}(s) = \hat{I}_{L}(s) - \frac{\hat{V}_{o}(s)}{2}$  $S \cdot C \cdot V_0(S) + \frac{V_0(S)}{R} = \widehat{I}_L(S) \Rightarrow \left(S \cdot C + \frac{1}{R}\right) \widehat{V}_0(S) = \widehat{I}_L(S)$ simple opproximation: 12(s) = ictil(s)  $Gvc(s) = \frac{V_o(s)}{I_{chr(s)}} = \frac{1}{sc+1}$ Control to support broufor fuction doent depend on less elements.