

، راسر اس

$$V_{=}^{\dagger}V_{-}$$

$$I_{d=0} \longrightarrow M_{\bullet}$$

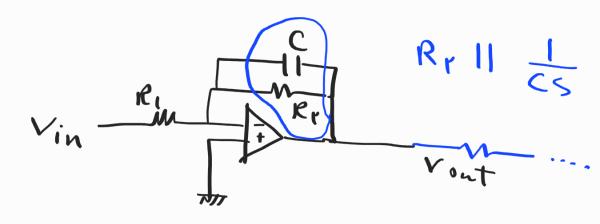
$$V = 0$$
  $V = 0$ 

$$V_{in} - Z_{i} I = 0$$

$$\circ - Z_{i} I = V_{out} \Rightarrow \boxed{\frac{V_{out}}{V_{in}} = \frac{-Z_{i}}{Z_{i}}}$$

$$R \longrightarrow R$$

$$C \rightarrow \frac{1}{Cs}$$



$$Z_{Y} = \frac{R_{Y}}{CS} = \frac{R_{Y}}{1 + R_{Y}CS}$$

$$\frac{V_{out}}{V_{in}} = \frac{Z_{Y}}{Z_{i}} = -\frac{R_{Y}}{R_{i}(1+R_{CS})}$$

$$\begin{cases} \frac{R_{1}}{R_{1}} \geq 1 \\ R_{1} \leq R_{1} = R_{1$$

$$\frac{R_{1}}{R_{1}} = -1$$