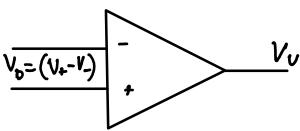
## Amplificatori Operazionali

Tuesday, January 14, 2025 12:55 PM

Gli amplificatori operazionali, detti OPA (Operation Amplifiers)



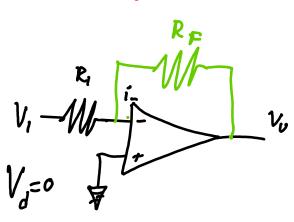
II + e' chiamato ingresso NON invretente II - e' chiamato ingresso invertente Ideolmente



V1=0=> V+

## Configurazione

## invertente



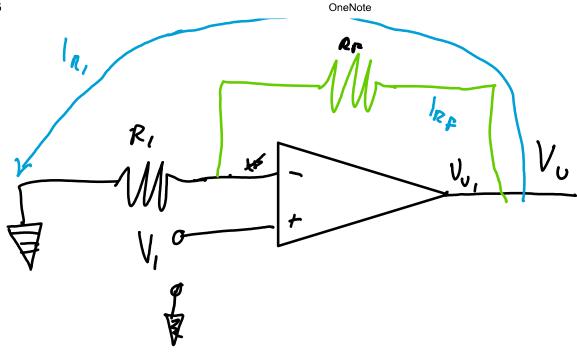
Resistenza di Feedback

$$A = \frac{V_{\nu}}{V_{\nu}}$$

$$V_{\mathcal{I}} = V_{\ell_1} + V_{d} = R_{i,l_i} + V_{d}$$

$$\frac{V_{1}}{V_{v}} = -\frac{V_{v}}{R_{F}} = \frac{V_{v}}{V_{1}} = \frac{R_{v}}{R_{F}}$$

## Configuratione nen la vortenta



$$I_{LP} = \frac{V_{\nu} - V_{\nu}}{R}$$

$$l_{e_i} = \underbrace{V_i}_{R_i}$$

$$\frac{1}{|Q_{l}|} = \frac{(V_{0} - V_{l}) \cdot R_{E}}{V_{l} P_{l}}$$

$$\frac{\left(V_{0}-V_{j}\right)\cdot R_{F}}{V_{i}R_{i}}=1$$

$$\frac{V_l}{R_l} = \frac{V_0 - V_l}{R_P}$$

$$\frac{V_{I}}{R_{I}} = \frac{V_{U}}{R_{F}} - \frac{U_{I}}{R_{F}}$$

$$\frac{V_{I}}{R_{I}} \neq \frac{V_{I}}{R_{F}} = \frac{V_{U}}{R_{F}}$$

$$V_{l}\left(\frac{1}{k_{l}}+\frac{1}{k_{F}}\right)=\frac{V_{o}}{k_{F}}$$

$$V_U = V_1 \left( 1 + \frac{R_2}{R_1} \right)$$