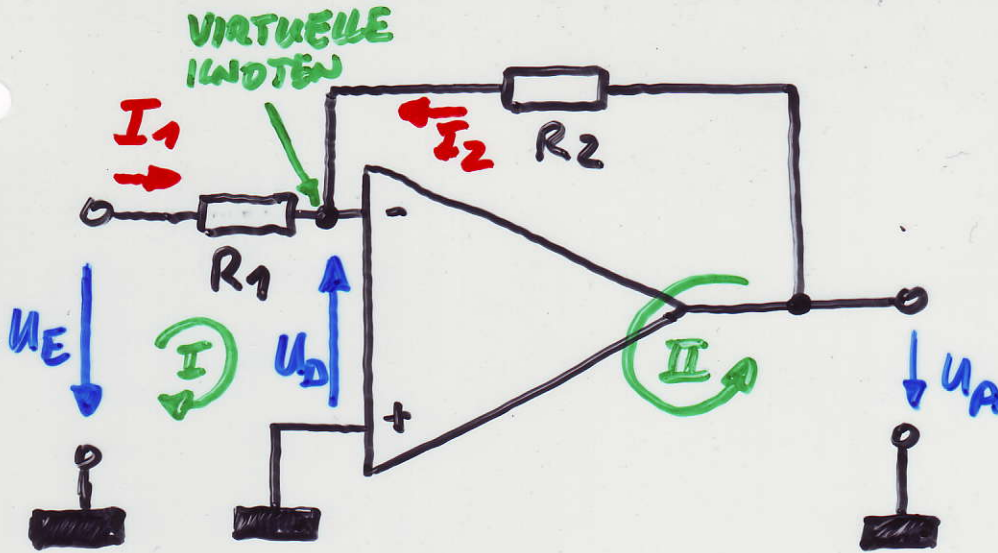


BETRIEBSVERSTÄRKUNG DES INVERTIERERS



$$V_u = \frac{U_A}{U_E}$$

I = EINGANGSMASCHNE

$$U_E = I_1 \cdot R_1 - U_D$$

$$R_1 = \frac{U_E}{I_1} = R_{\text{EING.}}$$

U_D = VERNACHLÄSSIGBAR
DA I_D NUR 75 pA

II = AUSGANGSMASCHNE

$$U_A = I_2 \cdot R_2 - U_D$$

VIRTUELLER KNOTEN

$$I_1 + I_2 + I_D = 0 \quad \Rightarrow \quad I_1 = -I_2$$

$$I_1 = \frac{U_E}{R_1} \quad ; \quad I_2 = \frac{U_A}{R_2}$$

$$\frac{U_E}{R_1} = -\frac{U_A}{R_2}$$

$$V_u = \frac{U_A}{U_E} = -\frac{R_2}{R_1}$$