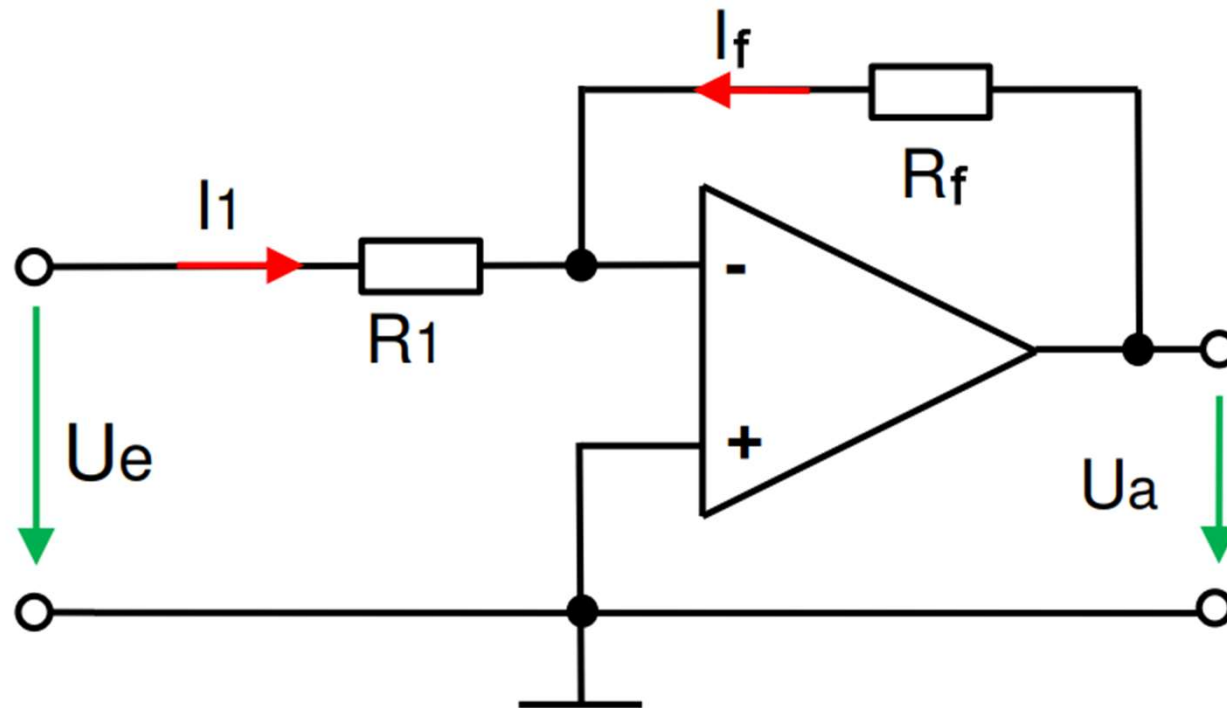
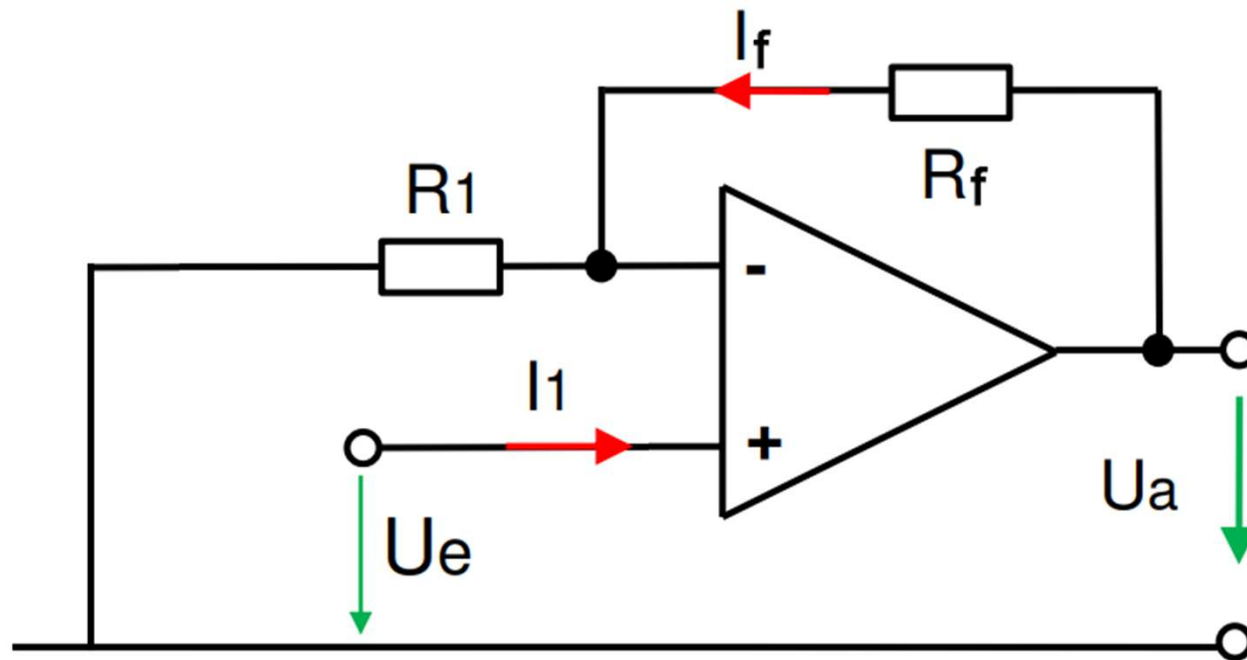


Invertierender:



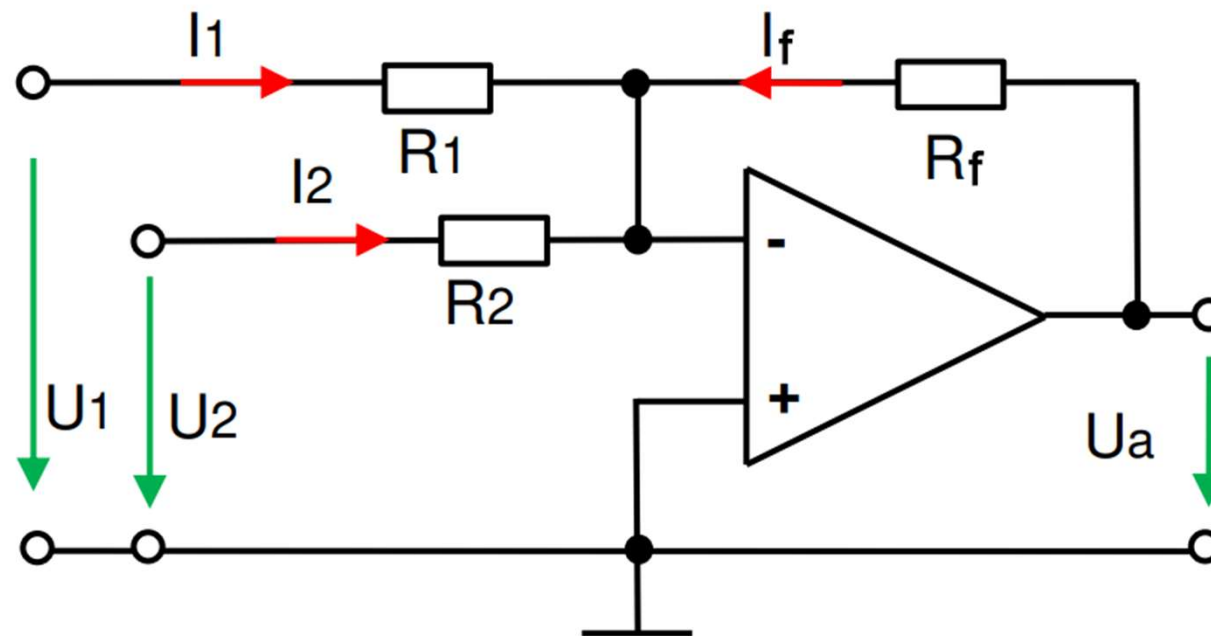
$$\frac{U_a}{U_e} = -\frac{R_f}{R_1}$$

Nicht Invertierender:



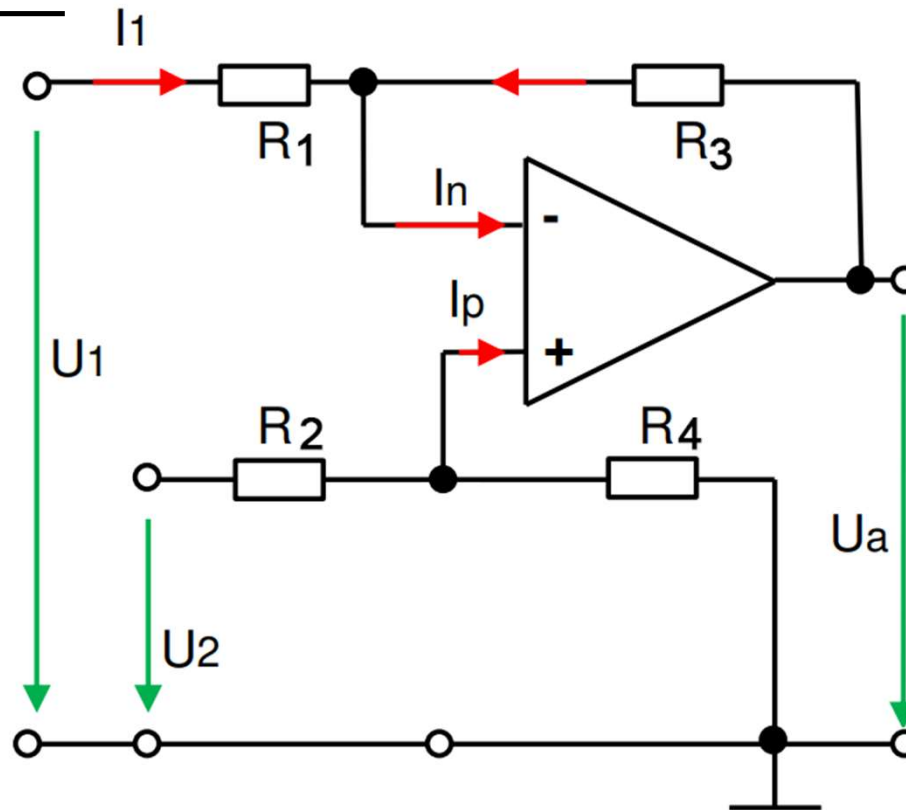
$$\frac{U_a}{U_e} = 1 + \frac{R_f}{R_1}$$

Addierer:



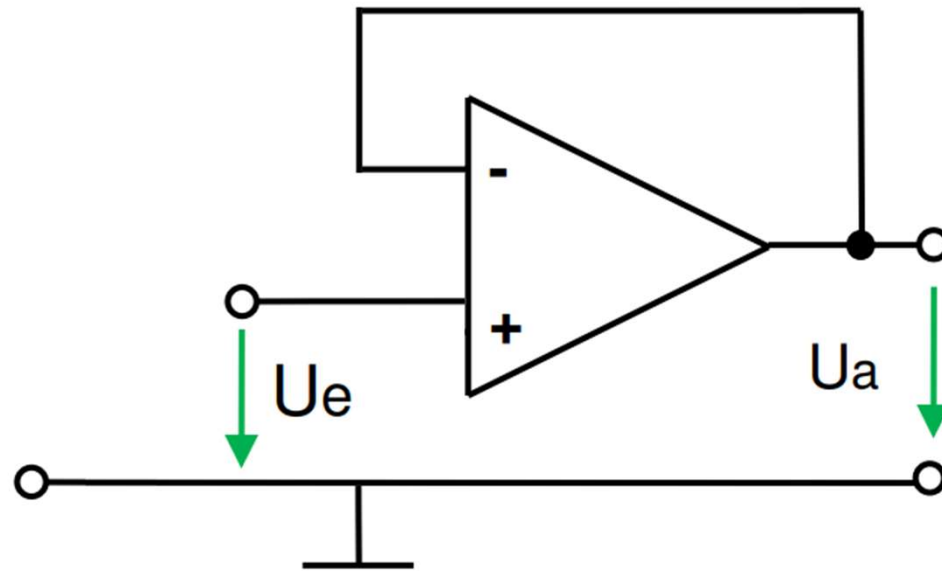
$$U_a = -R_f \left(\frac{U_1}{R_1} + \frac{U_2}{R_2} \right)$$

Subtrahierer:



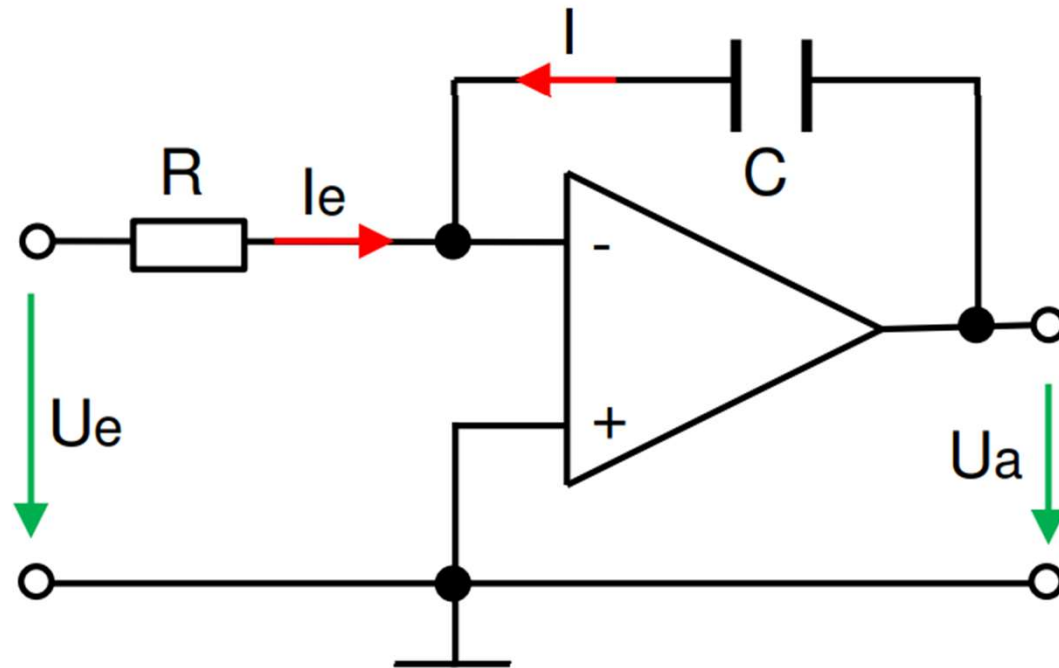
$$U_a = U_2 \cdot \frac{R_4}{R_1} \cdot \left(\frac{R_1 + R_3}{R_2 + R_4} \right) - U_1 \left(\frac{R_3}{R_1} \right)$$

Impedanz-Wandler / Spannungsfolger:



$$\frac{U_a}{U_e} = 1$$

Integrierer:



$$U_a = -\frac{1}{RC} \int_0^t U_e dt$$