

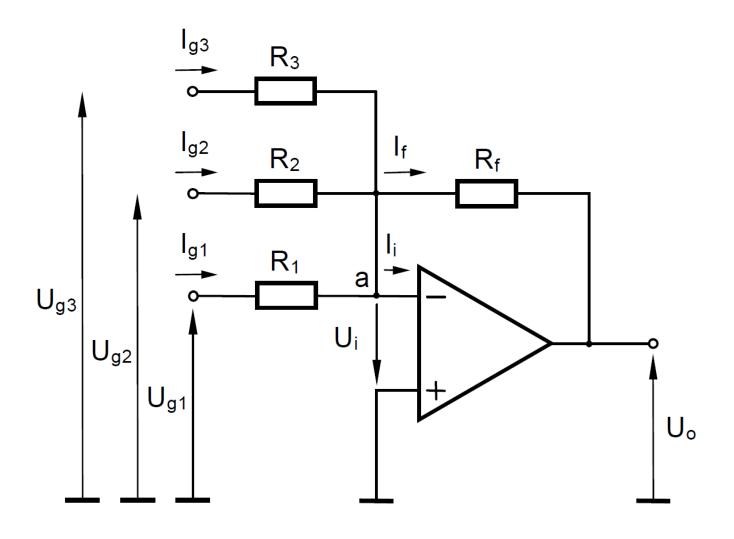
Elektronische signalen 2

Inverterende sommator

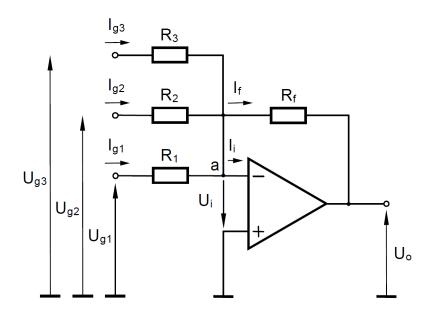
P. Debbaut



Principeschema



Uitgangssignaal



Opmerkingen

- gewogen som
- signaal wordt geïnverteerd
- ingangsweerstanden verschillend
- ullet uitgangsweerstand 0Ω

knooppunt a
$$\sum I = 0$$

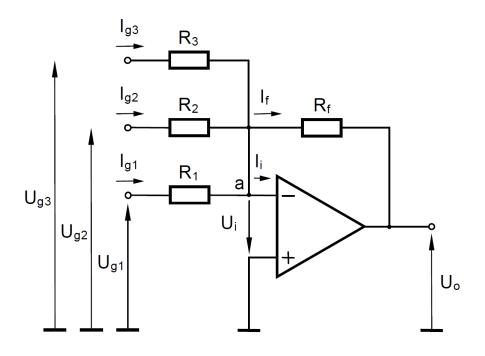
$$I_{g1} + I_{g2} + I_{g3} = 1 + I_{f}$$

$$I_{g1} + I_{g2} + I_{g3} = I_f$$

$$\frac{U_{g1}}{R_1} + \frac{U_{g2}}{R_2} + \frac{U_{g3}}{R_3} = -\frac{U_o}{R_f}$$

$$U_o = -\left(\frac{R_f}{R_1}U_{g1} + \frac{R_f}{R_2}U_{g2} + \frac{R_f}{R_3}U_{g3}\right)$$

Speciale gevallen



Is $R_1 = R_2 = R_3$ dan bekomt men:

$$U_o = -\frac{R_f}{R_1} (U_{g1} + U_{g2} + U_{g3})$$

Is $R_1 = R_2 = R_3 = R_f$ dan wordt dit:

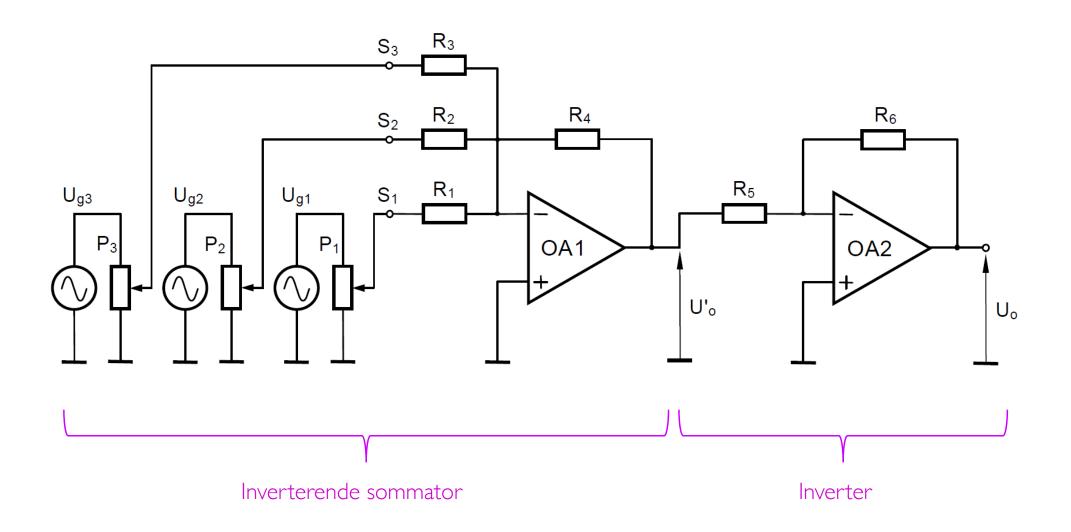
$$U_o = -(U_{g1} + U_{g2} + U_{g3})$$

Audio-mengpaneel



audio-mixer Peavey S32

Audio-mengschakeling

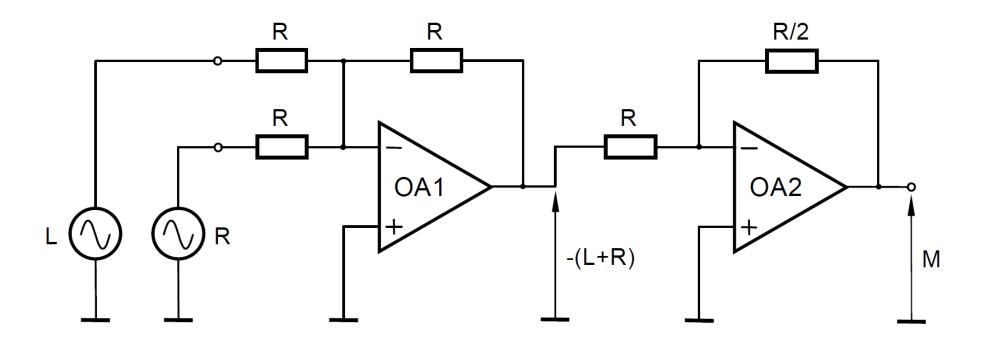


Audio-mengschakeling



Bourns slide potmeter

Stereo naar mono omvormer



$$M = \frac{L + R}{2}$$