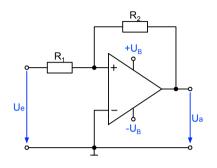
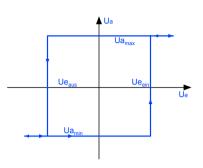
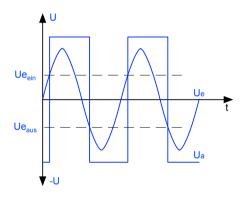
Kippschaltungen

Schmitt-Trigger

U_H: Hysteresespg. [V] Nichtinvertierender Verstärker





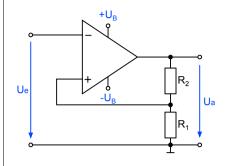


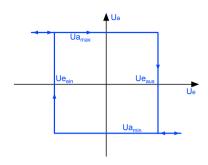
$$\mathsf{U}_{\mathsf{e}_{\mathsf{ein}}} = \frac{\mathsf{R}_1}{\mathsf{R}_2} \cdot \mathsf{U}_{\mathsf{a}_{\mathsf{min}}}$$

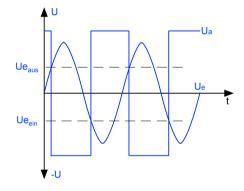
$$U_{e_{aus}} = \frac{R_1}{R_2} \cdot U_{a_{max}}$$

$$\mathbf{U}_{H} = \frac{\mathbf{R}_{1}}{\mathbf{R}_{2}} \cdot \left(\mathbf{U}_{\mathbf{a}_{max}} - \mathbf{U}_{\mathbf{a}_{min}} \right) = \mathbf{U}_{\mathbf{e}_{ein}} - \mathbf{U}_{\mathbf{e}_{aus}}$$

Invertierender Verstärker







$$U_{e_{ein}} = \frac{R_1}{R_1 + R_2} \cdot U_{a_{min}}$$

$$U_{e_{aus}} = \frac{R_1}{R_1 + R_2} \cdot U_{a_{max}}$$

$$U_{H} = \frac{R_{1}}{R_{1} + R_{2}} \cdot (U_{a_{max}} - U_{a_{min}}) = U_{e_{ein}} - U_{e_{aus}}$$