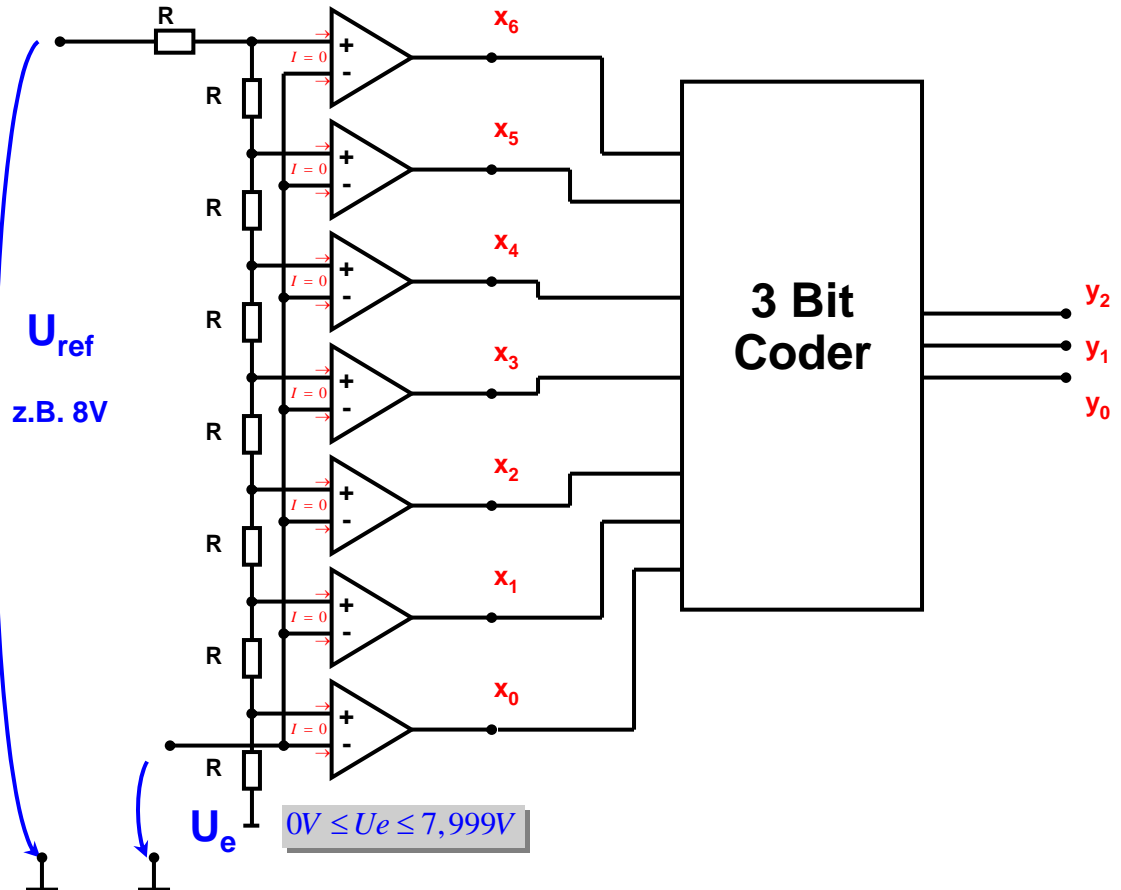
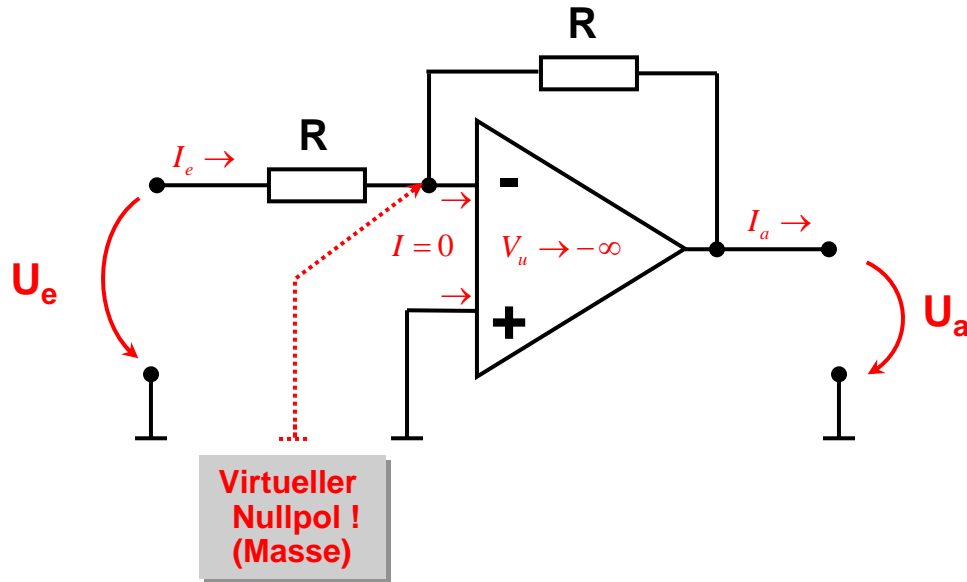
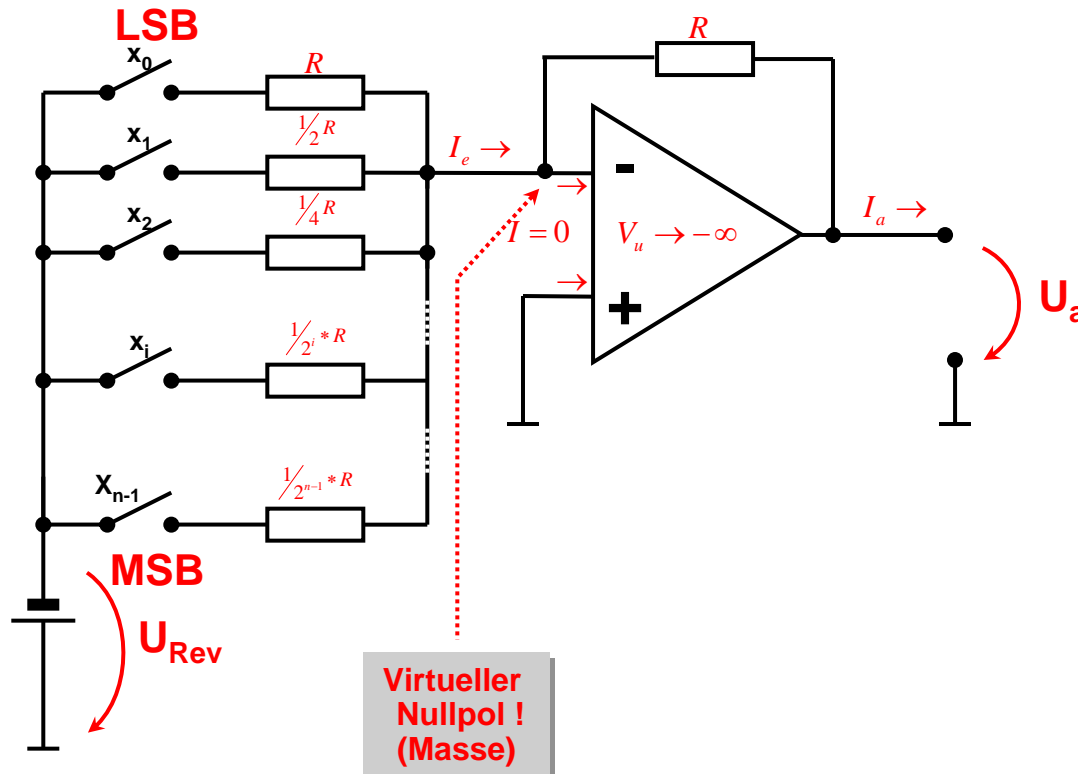


Alle R sind gleich !





$$U_e = -U_a$$
$$\frac{I_e}{R} = -\frac{I_a}{R}$$



Die Dimensionierung der Widerstände muss sehr hohen Ansprüchen genügen !

$$U_e = -U_a$$

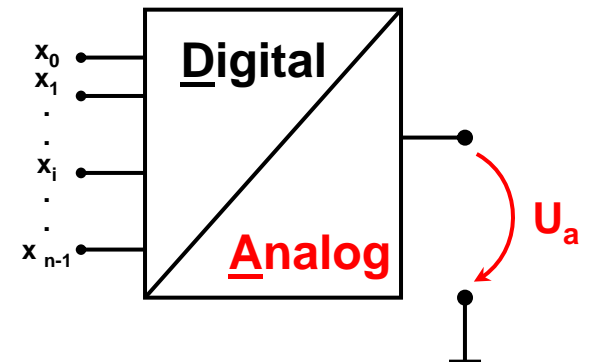
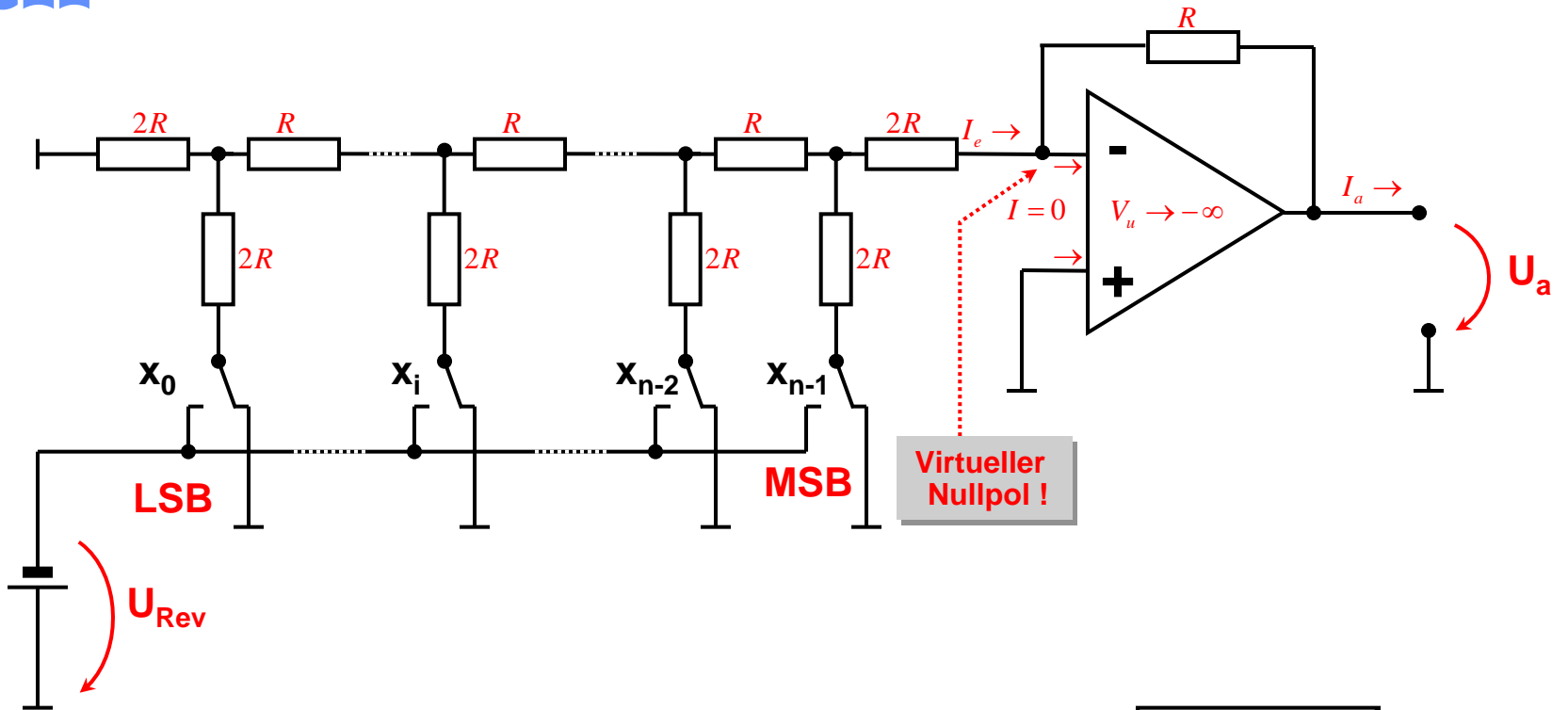
$$I_e = -I_a$$

$$I_e = \sum_0^{n-1} x_i \frac{2^i * U_{Rev}}{R}$$

$$I_a * R = -R * \sum_0^{n-1} x_i \frac{2^i * U_{Rev}}{R}$$

$$U_a = -U_{Rev} * \sum_0^{n-1} x_i * 2^i$$

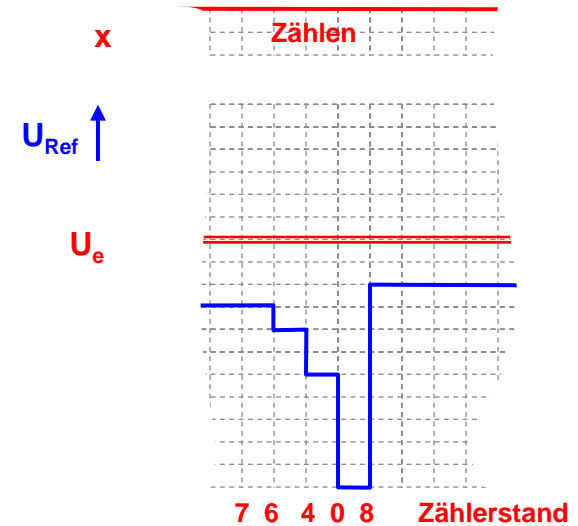
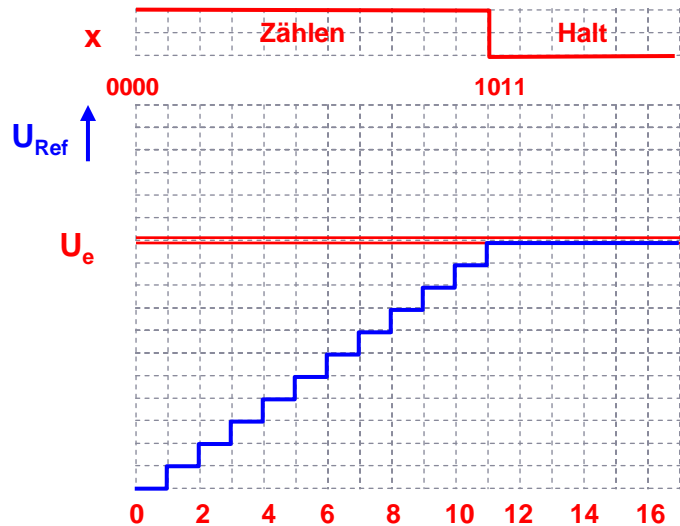
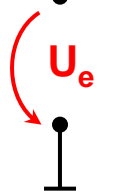
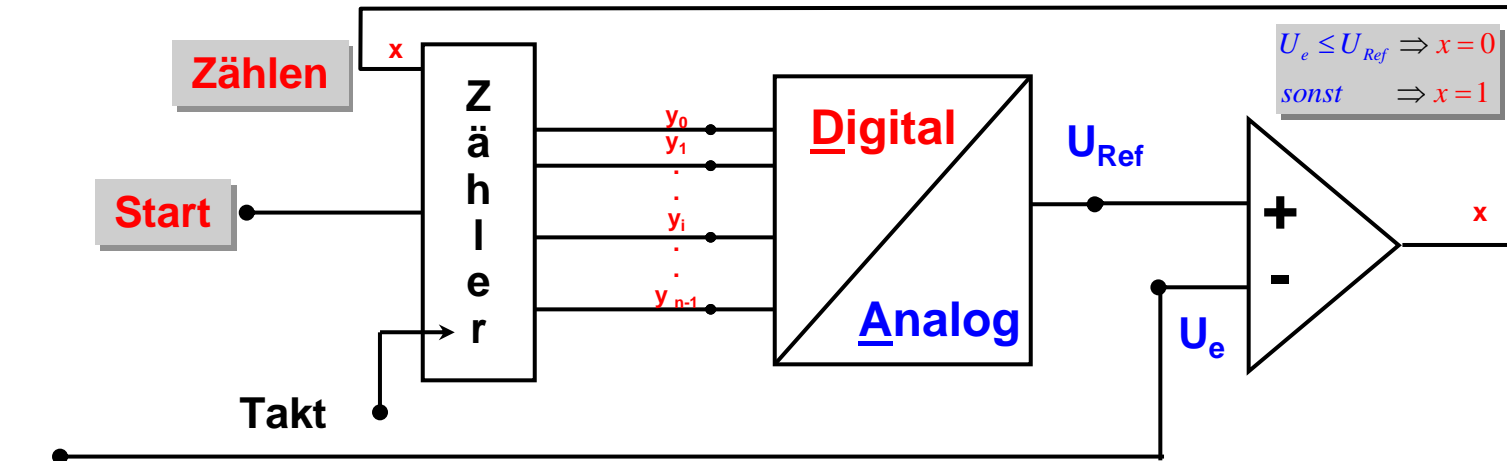
$$\text{Mit } \left\{ \begin{array}{l} x_i = 0 \text{ bei } \bar{x}_i \\ x_i = 1 \text{ bei } x_i \end{array} \right\}$$





Indirekte A-D Wandlung (Sägezahnverfahren)

Digitale Systeme



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A-D Wandlung (sukzessive Approximation)

Digitale Systeme

