

P an R

$R = \frac{U}{I}$ $P = U \cdot I$

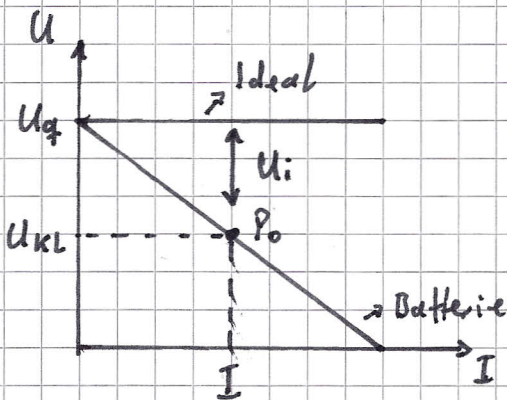
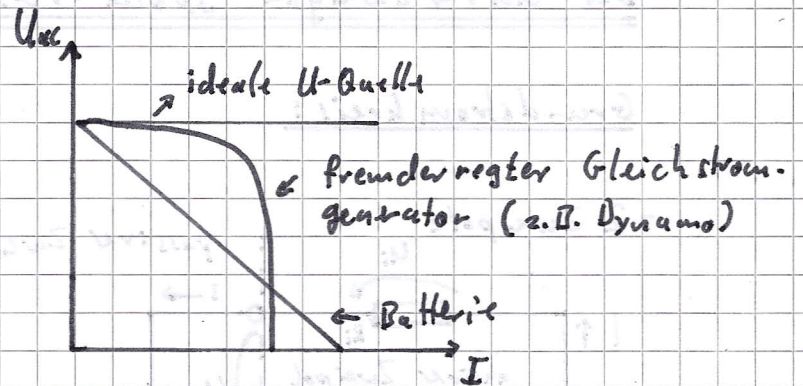
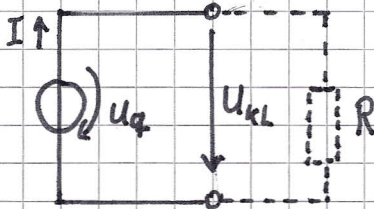
$P = U \cdot I = R \cdot I^2 = \frac{U^2}{R}$

P_{max} an R

$I_{max} = \sqrt{\frac{P_{max}}{R}}$

$U_{max} = \sqrt{P \cdot R}$

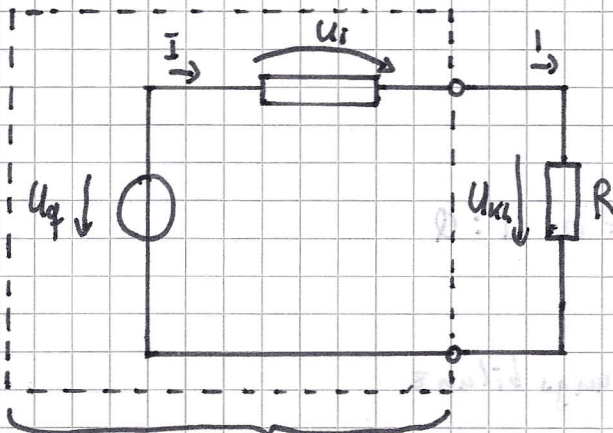
reale Quelle



Po → Arbeitspunkt

$Uq = U_{kl} = U_i$

$U_{kl} + U_i = Uq$



$U_i = I \cdot R_i$ → Definitionsgleichung für Ri.

Ersatzschaltung für eine reale Quelle