



$$u(t) = \text{Re} \left\{ M_0 e^{j(\omega_e t + \Delta\phi \cos \omega_e t)} \right\}$$

$$= \text{Re} \left\{ M_0 e^{j\omega_e t} e^{j\Delta\phi \cos \omega_e t} \right\}$$

$$e^{j\Delta\phi \cos \omega_e t} = 1 + j\Delta\phi \cos \omega_e t + \frac{1}{2!} j^2 \Delta\phi^2 \cos^2 \omega_e t$$

→ Potenzreihe

$$+ \frac{1}{3!} j^3 \Delta\phi^3 \cos^3 \omega_e t + \dots$$