

Reflexion an Metalloberfläche

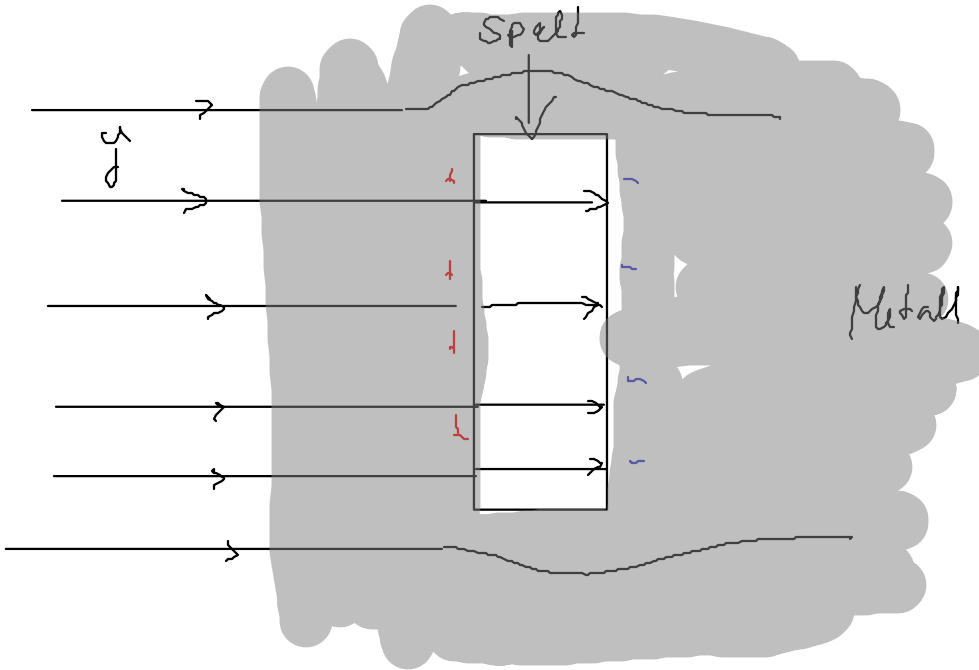
$$E_x = E_x^i + E_x^r = 2i E_0 \sin(kz) e^{-i\omega t}$$

$$B_y = E_k^i - B_x^r = 2 B_0 \cos(kz) e^{-i\omega t}$$

$$j_x = ik B_0 e^{-i\omega t}$$

$$\text{rot } \vec{E} = -\frac{\partial \vec{B}}{\partial t}$$

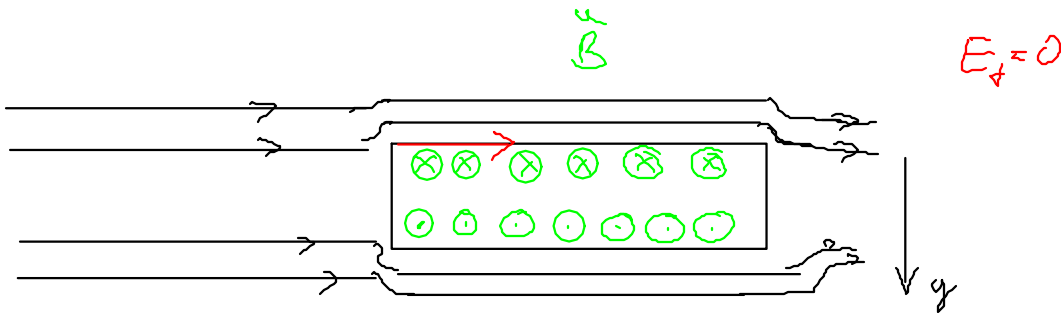
$$\text{rot } \vec{j} = \vec{j} + \frac{\partial \vec{j}}{\partial t}$$



$$\frac{\partial D_{\text{Spalt}}}{\partial t} = j_x$$

$$\Rightarrow E_{\text{Spalt}} = E_x^i(z=0)$$

$$E_{\text{ges}} = E_x^i + E_x^r \approx 0$$



Meixner

im Spalt $E_t \sim \sqrt{y}$

optische Systeme

