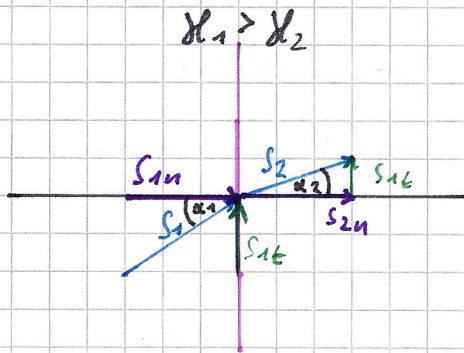


allgemeine Schräge Grenzfläche

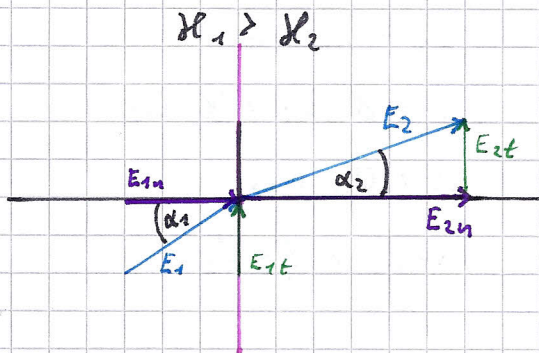


- Grenzfläche
- Tangentiale
- Normale
- Stromfluß (Stromdichte)

$$S_{1n} = S_{2n}$$

$$S_{1t} \geq S_{2t}$$

$$S_1 \cos \alpha_1 = S_2 \cos \alpha_2$$



- Stromfluß (E-Feld)

- Normale

- Tangentiale

- Grenzfläche

$$E_{1n} < E_{2n}$$

$$E_{1t} = E_{2t}$$

$$E_1 \sin \alpha_1 = E_2 \sin \alpha_2$$

$$\Rightarrow \frac{E_1 \sin \alpha_1}{S_1 \cos \alpha_1} = \frac{E_2 \sin \alpha_2}{S_2 \cos \alpha_2}$$

$$\frac{E_1}{S_1} \tan \alpha_1 = \frac{E_2}{S_2} \tan \alpha_2$$

$$| \quad S = nE$$

$$\frac{\tan \alpha_1}{n_1} = \frac{\tan \alpha_2}{n_2}$$

$$\frac{n_1}{n_2} = \frac{\tan \alpha_1}{\tan \alpha_2} \Rightarrow \text{allgemeines Brechungsgesetz}$$