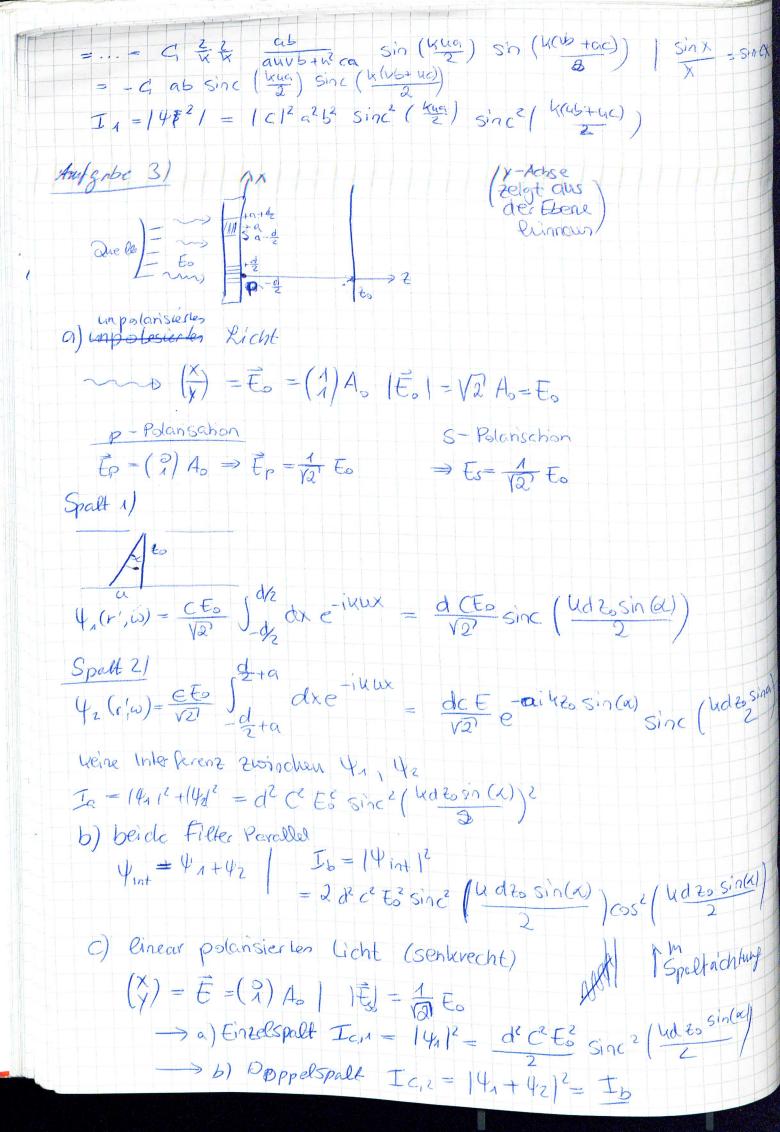
5)
$$S = \frac{1}{16}$$
 $C^2 = C_0p^2 + C_0^2$ C^2 C^2

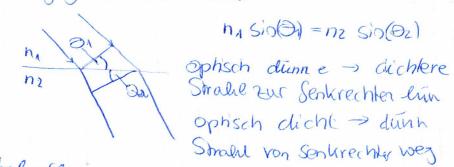


$$\begin{aligned} \Psi_{Z} &= \Psi_{1} e^{-i\vartheta} \\ \alpha | \ \Psi &= \begin{pmatrix} \Psi_{p} \\ \Psi_{S} \end{pmatrix} = \begin{pmatrix} \Psi_{1} \\ \Psi_{Z} \end{pmatrix} = \Psi_{1} \begin{pmatrix} 1 \\ e^{-i\vartheta} \end{pmatrix} \quad | \ \Psi_{1} &= | \Psi_{1} |^{2} \\ | \ \Psi_{1} &= | \Psi_{2} |^{2} \\ | \ \Psi_{2} &= | \Psi_{3} |^{2} \\ | \ \Psi_{2} &= | \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{2} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2} \\ | \ \Psi_{3} &= | \ \Psi_{3} |^{2}$$

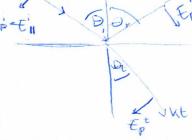
(15, 3)

Ophik:
$$\omega = kVph = k = \frac{C}{h}$$

 $Vph \neq Vr = \frac{\partial \omega}{\partial k}$ aber for Light $Vph = Vgv$.
Brechungsgesek von Snellius



Kontinuitats bedingungen our Maxwell on Grenz flachen



Shichwort Fresnel-Gleichlungen
$$r_p = r_{11} \frac{\cos \theta + \sin \theta - \cos \theta + \sin \theta}{\cos \theta + \sin \theta + \cos \theta + \sin \theta}$$

$$\cos \theta + \cos \theta +$$

$$r_{p} = r_{11} \frac{\cos \partial \ln z - \cos \partial t^{n}}{\cos \partial \ln z + \cos \partial t} \qquad t_{p} = t_{11} = \frac{2n_{1} \cos \partial r}{\cos \partial \ln z + \cos \partial t}$$

$$r_{S} = r_{1} = \frac{\cos \partial \ln r - \cos \partial t^{n}z}{\cos \partial \ln r + \cos \partial t^{n}z} \qquad t_{s} = t_{1} = \frac{2n_{1} \cos \partial r}{\cos \partial \ln r + \cos \partial t^{n}z}$$

$$r_{1}t \rightarrow \text{Misplituden}$$

