$$\lambda = \frac{\zeta}{f} \qquad \zeta = \frac{1}{\sqrt{mc_r}} c_0$$

$$(n+1/2)\frac{\zeta}{f} = n\frac{c_0}{f} \implies n = \frac{1}{2(\sqrt{mc_r}-1)}$$

$$\lambda = \frac{1}{2(\sqrt{mc_r}-1)}\frac{c_0}{f} \approx 2 lown$$

$$\begin{array}{ll}
\widehat{U} & \underline{Z} = \sqrt{\frac{w \Lambda}{2\sigma}} (1+j) = 2\pi/4 (1+i) - 2 \\
b) H = \frac{E}{2} = 9027 (1-i) T \\
c) P = \frac{1}{2} \cdot E \cdot H \cdot A = 9027 (1-i) W \\
d) C = \frac{d}{V} = 86 \text{ ns} \\
e) E = F_0 \cdot e^{\frac{\pi}{2}} = 72 = -5 \left(n \left(\frac{E}{F} \right) = 5,9 (1-i) \text{ mm} \right)
\end{array}$$

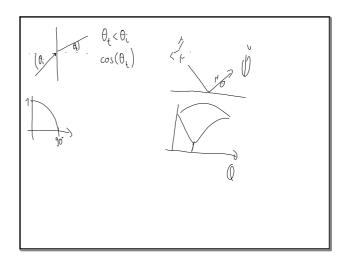
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$$A 3.3 \qquad n_{1} \sin \theta_{0} = n_{1} \sin \theta_{0}$$

$$\frac{n_{1}}{n_{1}} = \frac{\sin(9v^{2}\theta)}{\sin \theta_{0}}$$

$$= \cot a n \theta_{1}$$

$$= > \theta_{1} = \arctan(\frac{n_{1}}{n_{1}})$$



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