$$n_{\perp} \qquad k_{j} = \frac{\omega}{c} \quad n_{j} \qquad \bar{l}_{c} = \begin{bmatrix} v_{1} \\ v_{2} \end{bmatrix}$$

$$\frac{1}{k_{0}} = \frac{\omega}{k_{0}} = \frac{1}{k_{0}} = \frac{\omega}{k_{0}} = \frac{1}{k_{0}} = \frac{\omega}{k_{0}} =$$

$$\Rightarrow V_{sut} = \begin{bmatrix} V_1 & e^{i S\varphi} \\ V_2 \end{bmatrix} = \begin{bmatrix} e^{iS\varphi} & 0 \\ 0 & 1 \end{bmatrix} V_{fin} \qquad \Delta \varphi = (k_1 - k_1) d$$

$$\omega = \frac{2JT}{T} = \frac{2JT}{\lambda \frac{\pi}{C}} = \frac{2JTC}{\lambda \pi}$$

$$\delta \varphi = (k_{\perp} - k_{\parallel}) d = \frac{\omega}{C} (\eta_{\perp} - \eta_{\parallel}) d = \frac{2JTd}{\lambda \pi} (\eta_{\perp} - \eta_{\parallel})$$

gulzie
$$n = [n_{11}^{2} + n_{12}^{2}]$$
 $J = \frac{Jn}{n_{11} - n_{11}} \cdot \frac{J\phi}{2J_{1}}$ $V_{in} = \frac{1}{12} \begin{bmatrix} 7 \\ 1 \end{bmatrix}$

a) obsot
$$0 + 5^{\circ} \rightarrow V_{out} = \frac{7}{\sqrt{1}} \begin{bmatrix} -7 \\ 1 \end{bmatrix}$$
 $e^{i34} = -7$ $\delta \phi = \sqrt{1}$ $d = \frac{\sqrt{n}}{n_1 - n_1} \frac{1}{2}$

b) polaryraga lestona $V_{\text{out}} = \frac{1}{\sqrt{2}} \left[i \right] e^{iSP} = i \quad \Delta \varphi = \frac{\pi}{2}$ $d = \frac{\lambda n}{n_1 - n_{11}} \stackrel{?}{=}$ Cre