$$\frac{1}{\sqrt{2}} \left| \frac{1}{\sqrt{2}} \left| \frac{1}{\sqrt{2}} \right| + \frac{1}{\sqrt{2}} \left| \frac{1}{\sqrt{2}} \left| \frac{1}{\sqrt{2}} \right| + \frac{1}{\sqrt$$

o 
$$k_{2j} \approx \frac{E_{j} - E_{m}}{E_{j} + E_{m}}$$
 ueglecting  $k_{2j} \approx ika$   $k_{2j} \approx ika$ 

$$\psi = -\frac{\omega}{i \frac{1}{2} \pi \epsilon} \cdot \frac{\epsilon_{2+\epsilon_{1}}}{2} = \frac{i \omega \bar{\epsilon}}{2 \pi \epsilon}$$

Lhon Film

$$\frac{1}{7} = 0 \implies 1 - \frac{1}{21} \frac{1}{23} = \frac{12 \frac{1}{22} \frac{1}{2}}{12 \frac{1}{22} \frac{1}{2}} = 0 \left(\frac{1}{21} \frac{1}{23} \frac{1}{2} \frac{1}{21} \frac{1}{22} \frac{1}{21} \frac{1}$$

 $= f \log \left[ \frac{(\varepsilon_1 - \varepsilon_2)}{(\varepsilon_1 + \varepsilon_2)} \left( \frac{\varepsilon_3 - \varepsilon_2}{(\varepsilon_3 + \varepsilon_2)} \right) \right] = f_2 \kappa_p d$   $\kappa_{12} \kappa_{14} \kappa_p$ KZZ~ KZI ~ikp

(C) zuisomopie film  $\frac{3}{2} - \log \left( \Gamma_{21}^{2} \Gamma_{23}^{2} \right) = i 2 k 2 2 d$   $k_{22} = k_{21} = k_{22}$   $k_{22} = k_{21} = k_{22}$ b Flog [ DENZ . DEZZ = FZ VEN Kpd  $k_{z} = \frac{1}{2d} \sqrt{\frac{z_{1}}{z_{n}}} \log \left[ \frac{\Delta z_{12}}{\bar{z}_{12}} \frac{\Delta z_{32}}{\bar{z}_{32}} \right]$  $\frac{1}{d} = \frac{2\pi}{4\pi} = \frac{2\pi \cdot 2}{\log \left[ ... \right]} \sqrt{\frac{\xi_{\parallel}}{\xi_{\perp}}} = \sqrt{4\pi} \sqrt{\frac{\xi_{\parallel}}{\xi_{\perp}}} \log \left[ ... \right]$ 

$$\frac{1}{\Gamma_{l}} = \frac{K_{ll} - k_{ll}}{R_{ll} k_{ll}} = \frac{K_{ll} - k_{ll}}{R_{ll} k_{ll}} = \frac{i \omega \bar{\epsilon}}{2\pi \bar{\epsilon}}$$

$$\frac{\mathcal{E}_{2} \, k_{21} + \mathcal{E}_{1} \, k_{22} + 4\pi \, \sigma \, k_{21} k_{22} / \omega}{\mathcal{E}_{2} \, k_{21} - \mathcal{E}_{1} \, k_{22} + 4\pi \, \sigma \, k_{21} k_{22} / \omega} = \frac{k_{11} - k_{12}}{R_{p} \, k_{p}}$$

$$\frac{\partial (1/\delta \rho)}{\partial \kappa_{4}} = \frac{1}{R \rho L \rho}$$

$$K_{2} = \sqrt{\sum_{i} k^{2} - k_{u}^{2}}$$
 $K_{2} = -\frac{2k_{u}}{\sqrt{\sum_{i} k_{i}^{2} - k_{u}^{2}}} = +2i$ 
 $K_{2} = +2i$ 
 $K_{2} = +2i$ 
 $K_{2} = +2i$ 

TP = Tp.1m + tp.smtp.m2 Tp.m2 e

2 from Methods

1 - Trusting Zikzmd

from Methods

 $T_{\rho} = \frac{\mathcal{E}_{m} - \mathcal{E}_{1}}{\mathcal{E}_{m} + \mathcal{E}_{1}} + \frac{\mathcal{E}_{parm}}{(\mathcal{E}_{1} + \mathcal{E}_{m})^{2}} \cdot \frac{(\mathcal{E}_{2} - \mathcal{E}_{m})}{(\mathcal{E}_{2} + \mathcal{E}_{m})} \cdot \frac{2ik_{2md}}{(\mathcal{E}_{2} + \mathcal{E}_{m})} \cdot \frac{2ik_{2md}}{1 - e^{-2ik_{2md}}} \cdot \frac{2ik_{2md}}{e}$ 

 $\mathcal{E}_{m} + \mathcal{E}_{1} = \frac{1}{2 \operatorname{En} \operatorname{Em} (\mathcal{E}_{2} - \operatorname{Em})} = \frac{2i \operatorname{kzmd}}{2i \operatorname{kzmd}}$   $= \frac{2i \operatorname{kzmd}}{2i \operatorname{kzmd}}$   $= \frac{2i \operatorname{kzmd}}{2i \operatorname{kzmd}}$   $= \frac{2i \operatorname{kzmd}}{2i \operatorname{kzmd}}$ 

 $\Gamma_{p} = \frac{\sum m - \xi_{1}}{\sum m + \xi_{2}} \left[ 1 + \frac{2 \xi_{1} \xi_{m} (\xi_{2} - \xi_{m})}{\sum m^{2} - \xi_{1}^{2} (\xi_{2} + \xi_{m})} \cdot \frac{e^{-2k_{1}d}}{1 - e^{2k_{1}d}} \right]$   $\Gamma_{mult:ply by e^{2k_{1}d}}$   $\Gamma_{mult:ply by e^{2k_{1}d}}$ 

 $\frac{\mathcal{E}_{m} - \mathcal{E}_{1}}{\mathcal{E}_{m} + \mathcal{E}_{1}} \left[ \frac{1}{1} + \frac{2\mathcal{E}_{1}\mathcal{E}_{m}}{\mathcal{E}_{u}^{2} - \mathcal{E}_{1}^{2}} \left( \frac{\mathcal{E}_{2} - \mathcal{E}_{m}}{\mathcal{E}_{2} + \mathcal{E}_{m}} \right) - \frac{1}{e^{2k_{u}d}} \right] = \frac{2k_{u}d}{2k_{u}d} = \frac{2k_{u}d}{2k$ 

 $\frac{1}{\sqrt{2}} = \frac{2^2 - \xi_1^2}{2 + \xi_1} = \frac{2}{\sqrt{2}} \left( \frac{k_0 - k_p}{k_p} \right) = \frac{k_0 - k_p}{\sqrt{2}}$