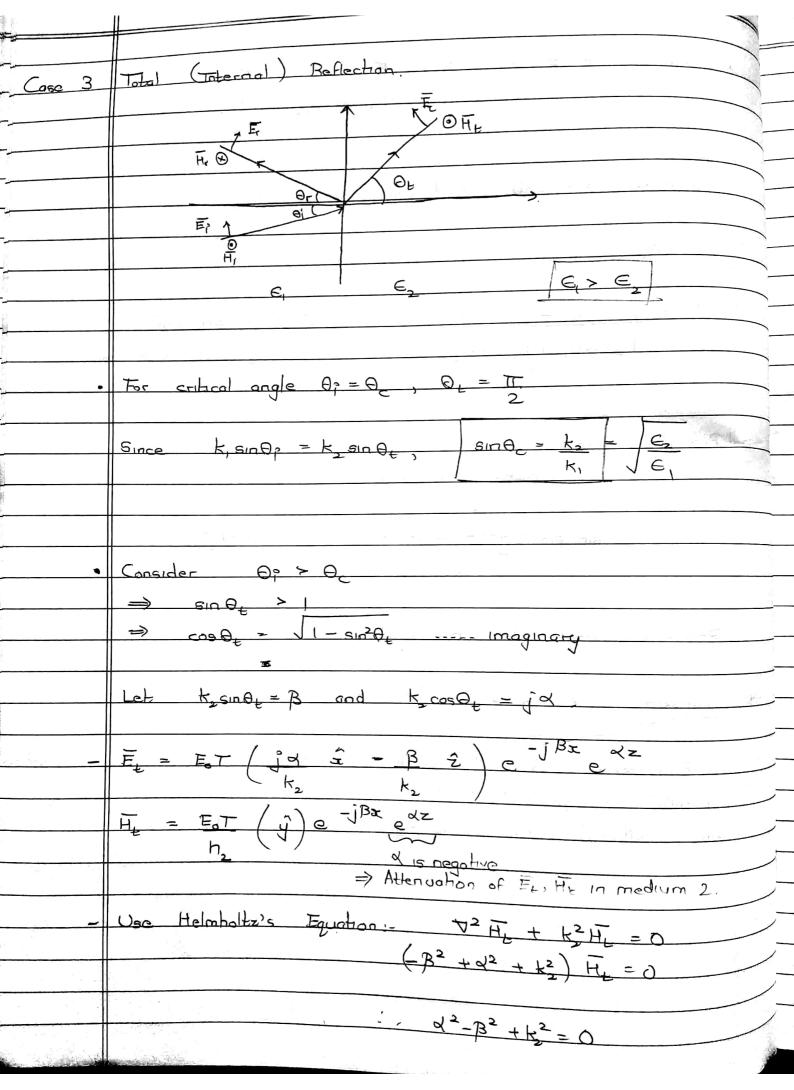
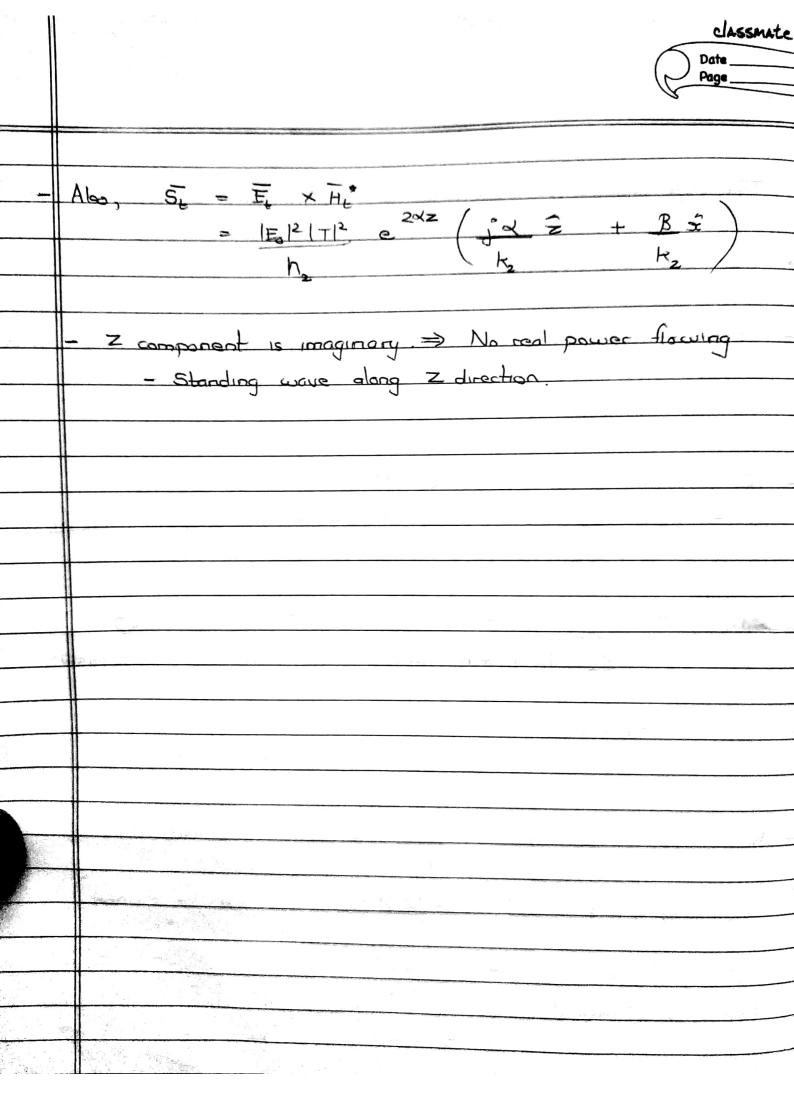
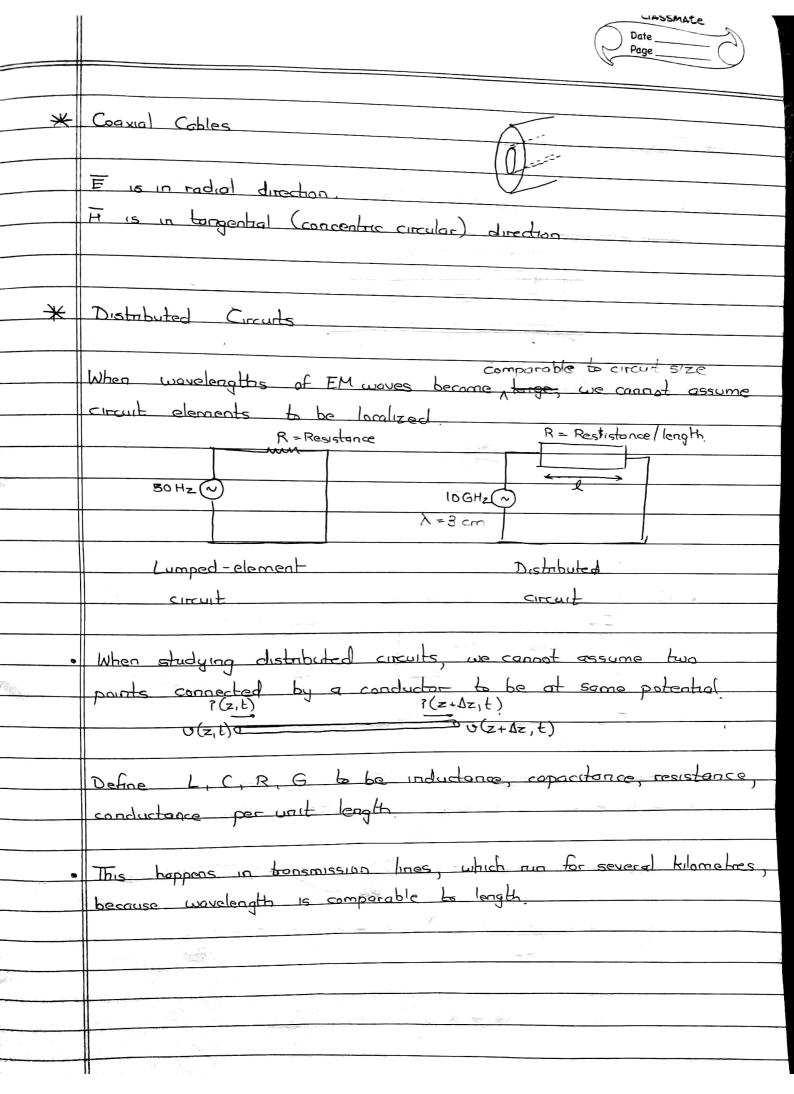
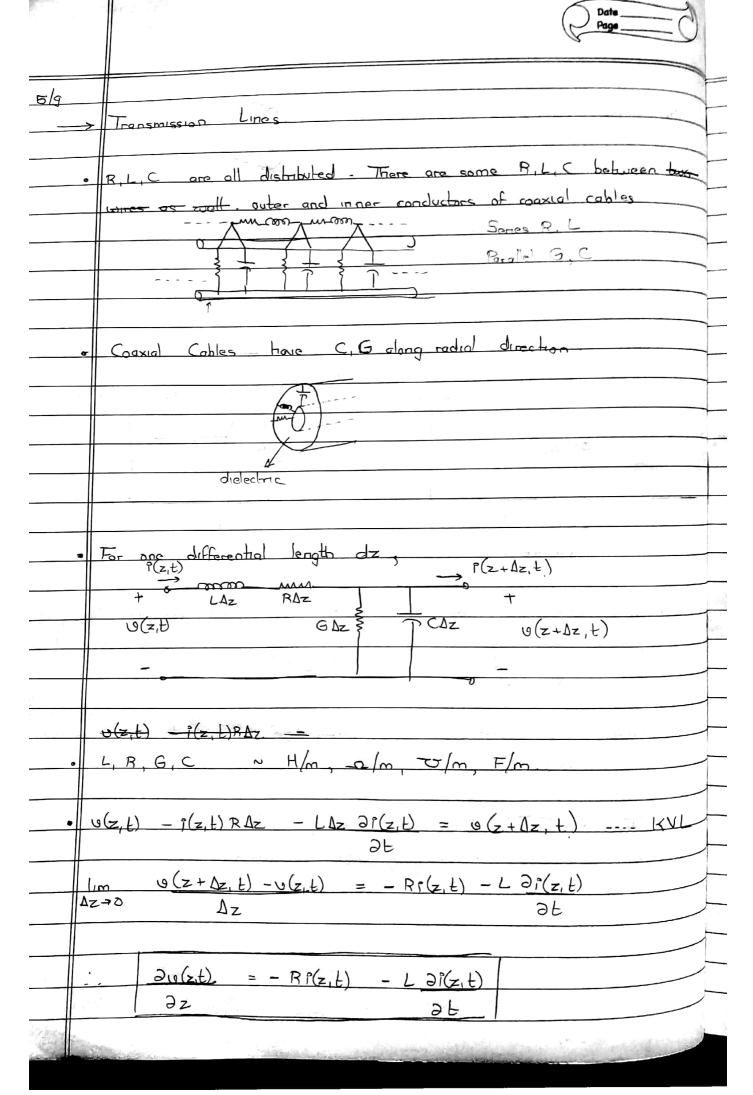


•	Continuity at z=0. :- i) Ez + E = E
	Continuity at $z=0$ . :- i) Eig + Eig = Eig ii) $H_{fx} + H_{rz} = H_{\xi z}$
- 11	Results:-  K, sindp = k, sindp = k, sindp
(2,2)	$\theta = \theta$
RY)	
•	Browster's Angle: $h_2 \cos \theta_2 = h_1 \cos \theta_2$ $\sin^2 \theta_1 \left( h_1^2 k_1^2 - h_2^2 k_2^2 \right) = \left( h_1^2 - h_2^2 \right) k_2^2$ always zero
<del>-*</del>	Browster's angle does not exist.  Polarization lenses:
	At Brewster's angle, the cove is polarized only in one direction (parallel, not perpendicular).  Hence, reflected wave do is not received by the lens









	-6(z+Az+)G-C36(z+Az+) = 100 i(z+Az+)-e(-1)
	750
	∆z
	KCL
	$\frac{\partial \hat{z}(z,t)}{\partial z} = -G \cdot o(z,t) - C \frac{\partial z(z,t)}{\partial z}$
	96
	10(-11) 111, 1wt
	$o(z,t) = V(z)e^{j\omega t}$ and $o(z,t) = V(z)\cos \omega t$ are both
	solutions for the voltage.  Similarly, $l(z,t) = I(z) e^{\int ut}$ and $l(z,t) = I(z)$ mosult.
	Similarly, 1(zt) = I(z) educe and i(z,t) = I(z) mosut.
	stable and the stable
_	Substitute in KVL.
	$\frac{\partial V(z)}{\partial z} = -(R + j\omega L) J(z)$
	Substitute in KCI
	$\partial I(z) = -(G + i\omega C) V(z)$
	2z
	These equations are similar to Maxwell's equations. Hence, we also
	have counterparts of Helmholtz's equation.
٥	$\partial^2 V(z) = -(R + j\omega L) \partial I(z)$
	$\partial z^2$ $\partial z$
	= (R+jwL)(0+jwC) V(z)
	Write & = I(R+jwL)(G+jwC) = &+jB = Propagation constant
	$\frac{1}{2} - \frac{\partial^2 V(z)}{\partial z^2} = \frac{\partial^2 V(z)}{\partial z^2}$
	Voltage wave traveling backwards.
	N(z) = 10 0 + 10 0 xz
	Voltage wave travelling forward

k):  - 	
#	
77	$\partial^2  \mathbb{I}(z) = \chi^2  \mathbb{I}(z)$
	$\partial z^2$
	$I(z) = I_0^{\dagger} e^{-8z} + I_0^{\dagger} e^{-8z}$
-	$T(z) = T^{\dagger} e^{-\delta z}$
	Tag S
	Substitute these in previous equations.  - (8+10) I(Z)
	31(2)
β	
	$(-1)(++e^{-8z}+\pm e^{+8z})$
	-> \( \frac{1}{2} = -\left( \text{R+jwL} \right) \left( \frac{1}{2} + \frac{1}{2} e^{+\gamma z} \right) \)
	$8V_0 = -(R+j\omega L) = -$
	$\frac{1}{2} - \frac{1}{2} \frac{1}{4} = -\left(\frac{1}{2} + \frac{1}{2} + 1$
	To = -Vor
	R+jul R+just
	efine characteristic impedance = Z = R+jwL
	V G+jwC
	$\frac{T_{0}^{+}=V_{0}^{+}}{Z_{0}}$ $\frac{T_{0}^{-}=-V_{0}^{-}}{Z_{0}}$
	$\frac{I_{0}^{+}=V_{0}^{+}}{Z_{0}}$ $\frac{I_{0}^{-}=-V_{0}^{-}}{Z_{0}}$
	- 2+iB
	sless medium = $d = 0$
	R = G = 0
	$\gamma = jB = j \omega \sqrt{LC}$
	$\beta = \omega \sqrt{c}$ $7 - \frac{c}{6}$
	$\beta = \omega \sqrt{c}$ , $z = \sqrt{c}$
Wax	elength = \ = 2T Phase velocity = up = 1
	TIC
Company of the second	

