$$\vec{E} = \vec{E}_{ox} \cos(kz - wt + \delta_x) \vec{Y}$$

$$\nabla^2 \vec{E} = \frac{1}{c^2} \frac{\delta^2 \vec{E}}{\delta t^2}$$

$$- \vec{E}_{ox} k^2 \cos(kz - wt + \delta_x) = \frac{1}{c^2} (-1) w^2 \vec{E}_y$$

$$-\frac{1}{|x|^{2}} \cos(|x|^{2} + \delta x) = \frac{1}{|x|^{2}} (-1) w^{2} \left[ \frac{1}{|x|^{2}} \cos(|x|^{2} + \delta x) \right]$$

$$-|x|^{2} = -\frac{|w|^{2}}{|x|^{2}} \Rightarrow \left[ \frac{|x|^{2}}{|x|^{2}} + \frac{|w|^{2}}{|x|^{2}} \right]$$

 $\vec{B} = B_{0x} \cos(k_2 - \omega \epsilon + \delta_x') \hat{x} + B_{0y} \cos(k_2 - \omega \epsilon + \delta_y') \hat{y}'$   $\nabla^2 \vec{B}' = \frac{1}{C^2} \frac{\partial^2 \vec{B}}{\partial \epsilon^2}$ 

$$\hat{x}$$
:  $-\frac{8}{x}\frac{k^{2}\cos(kz-ut+\delta_{x})}{k^{2}} = \frac{-1}{c^{2}}\frac{8}{x^{2}}\frac{w^{2}(\cos(kz-ut+\delta_{x}))}{c^{2}}$ 

": - By 12 cos( K2- WE + 8y) = - By w2 ( 05(K2- WE+ Sy)

$$\vec{E} = E_{0x} \cos(kz - \omega t + \delta_x) \vec{r}$$

$$\vec{B}' = B_{0x} \cos(kz - \omega t + \delta_x) \vec{r}$$

$$+ B_{0y} \cos(kz - \omega t + \delta_y) \vec{r}$$

$$+ B_{0y} \cos(kz - \omega t + \delta_y) \vec{r}$$

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$$+ B_{0y} \cos(kz - \omega t + \delta_y)$$

$$\vec{z} = \vec{E}_{0} y \quad Cos(kz - \omega t + \delta y) \vec{y}$$

$$\vec{\nabla} \vec{x} \vec{E} = -\frac{\delta \vec{B}}{\delta t}$$

$$\vec{x} : \vec{\delta} = -\frac{\delta \vec{B}}{\delta t}$$

$$\vec{x} : \vec{\delta} = -\frac{\delta \vec{B}}{\delta t}$$

$$\vec{y} : \vec{\delta} = -\frac{\delta \vec{B}}{\delta t}$$