Sphenical
$$A = \text{sho} \cdot \cos \phi \cdot X + \sin \phi \cdot \sin \phi \cdot y + \cos \phi \cdot z$$
 or $A = \text{sho} \cdot \cos \phi \cdot X + \sin \phi \cdot \sin \phi \cdot y - \sin \phi \cdot z$ or $A = \text{sho} \cdot \cos \phi \cdot X + \cos \phi \cdot y$ or $A = \text{sho} \cdot \cos \phi \cdot X + \cos \phi \cdot y$ or $A = \text{sho} \cdot X + \cos \phi \cdot y$ or

$$\nabla E = \frac{9}{6}$$
 Gauss Law $\nabla_X E = -\frac{\partial B}{\partial t}$ Foraday's Law $\nabla_X H = \int_{t}^{t} \frac{\partial A}{\partial t}$

Helmholtz egn =
$$\nabla^2 E + \omega^2 \mu_0 \cdot \epsilon_0 \cdot E = 0$$

$$\nabla \times \nabla \times E = \Delta (\Delta E) - \Delta_1 E \implies \text{mone education}$$

$$\Delta \times \Delta \times E = \Delta (\Delta E) - \Delta_1 E \implies \text{mone education}$$

$$\Delta \times \Delta \times E = \Delta (\Delta E) - \Delta_1 E \implies \text{mone education}$$

$$\Delta \times \Delta \times E = \Delta (\Delta E) - \Delta_1 E \implies \text{mone education}$$

$$\Delta \times \Delta \times E = \Delta (\Delta E) - \Delta_1 E \implies \text{mone education}$$

$$\frac{\text{cylindical}}{\nabla \cdot A = \frac{1}{\Gamma} \cdot \frac{d}{dr} \cdot (r \cdot A_r) + \frac{1}{\Gamma} \cdot \frac{d}{d\phi} + \frac{d}{d\phi$$

Plane wowes

J- TE

$$\lambda = \frac{2\pi}{k} = \frac{c}{\sqrt{\frac{c}{\mu r \cdot \epsilon_r}}} \quad v = c = \frac{1}{\sqrt{\frac{c}{\mu r \cdot \epsilon_r}}} = \sqrt{\frac{c}{\epsilon_r}} = \sqrt{\frac{c}{\epsilon_r}} = \sqrt{\frac{c}{\epsilon_r}} = \sqrt{\frac{c}{\mu r \cdot \epsilon_r}} = \sqrt{\frac{c}{\mu r$$

FIH

Such that

$$\overline{H} = \frac{1}{M} \hat{a}_z \times \overline{E}$$

Fix $\hat{n} = \overline{E}$
 $\overline{H} \times \hat{n} = \overline{E}$

$$\overline{H} \times \hat{n} = \overline{E}$$

$$\hat{n} \times \overline{E} = \overline{M} + \overline{M}$$

$$\nabla^2 \mathcal{E}(r,t) - +0.8. \frac{d^2}{dt^2} \mathcal{E}(r,t) = +0. \frac{d\nabla v(r,t)}{dt} + \frac{1}{6.} \nabla g_v(r,t)$$

$$B = \frac{40.50}{200} \quad \text{Vin} = 50 \times 10^{-3} \text{ Bds} = 40$$