

# Rectangular Waveguide

## Analysis of Waveguide

Generally:

$$\vec{E} = E_x \vec{a}_x + E_y \vec{a}_y + E_z \vec{a}_z$$
$$\vec{H} = H_x \vec{a}_x + H_y \vec{a}_y + H_z \vec{a}_z$$

Longitudinal components (Ez, Hz)

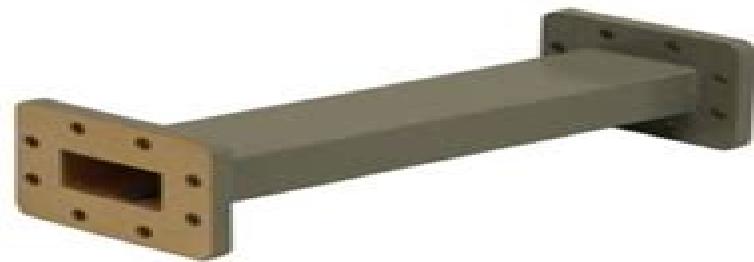
Transverse components (Ex, Ey, Hx, Hy)

Let us write the total field as

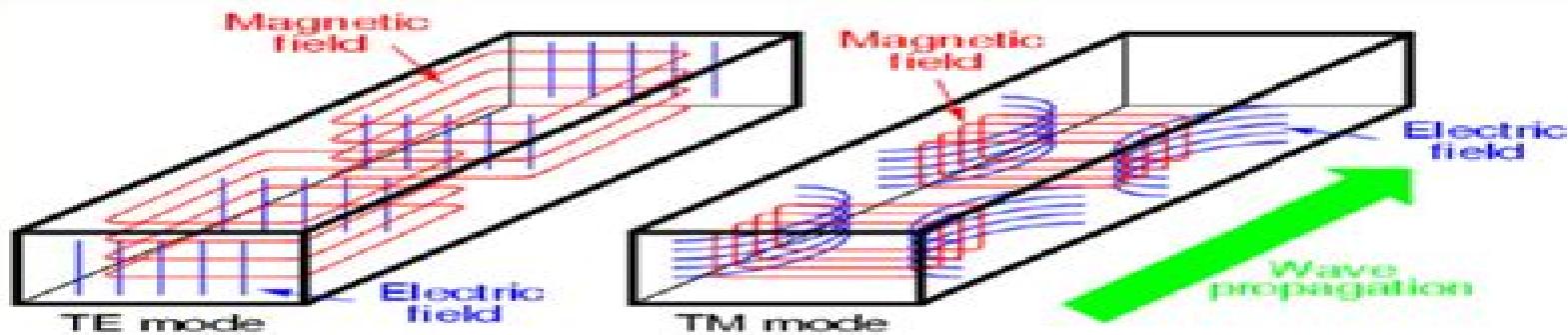
$$\vec{E} = E \perp + E_z \vec{a}_z$$

$$\vec{H} = H \perp + H_z \vec{a}_z$$

$E \perp$  and  $H \perp$  are vectors lying in XY plane, (Ez, Hz) are scalars



## Rectangular wave guide



$$\frac{\partial}{\partial x} \vec{a}_x + \frac{\partial}{\partial y} \vec{a}_y + \frac{\partial}{\partial z} \vec{a}_z = \nabla \perp + \frac{\partial}{\partial z} \vec{a}_z$$

For source free homogeneous medium, conductivity  $\sigma = 0$

$$\nabla \times \vec{H} = j\omega \epsilon \vec{E}$$

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**Christian G. Meyer**

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