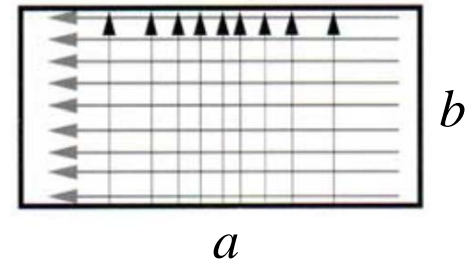


modo TE₁₀ in guida rettangolare

$$\kappa_{10}'' = \pi/a \quad \lambda_{10}'' = 2a \quad f_{10}'' = v/(2a)$$



$$\Phi_{10}'' = \sqrt{\frac{2}{ab}} \cos \frac{\pi x}{a}$$

$$\vec{e}_{10}'' = -\sqrt{\frac{2}{ab}} \vec{u}_y \sin \frac{\pi x}{a}$$

$$\vec{h}_{10}'' = \sqrt{\frac{2}{ab}} \vec{u}_x \sin \frac{\pi x}{a}$$

$$\lambda > 2a$$

$$\alpha = \frac{\pi}{a} \sqrt{1 - \left(\frac{2a}{\lambda}\right)^2}$$

$$Z = \frac{j\eta}{\sqrt{\left(\frac{\lambda}{2a}\right)^2 - 1}}$$

$$\lambda < 2a$$

$$\beta = \frac{2\pi}{\lambda} \sqrt{1 - \left(\frac{\lambda}{2a}\right)^2}$$

$$Z = \frac{\eta}{\sqrt{1 - \left(\frac{\lambda}{2a}\right)^2}}$$

campi modali

$$\vec{E}_{10}'' = -\sqrt{\frac{2}{ab}} \vec{u}_y \sin \frac{\pi x}{a} V_{10}''(z)$$

$$\vec{H}_{10}'' = \sqrt{\frac{2}{ab}} \left(\vec{u}_x \sin \frac{\pi x}{a} I_{10}''(z) - j \vec{u}_z \cos \frac{\pi x}{a} \frac{\lambda}{2a\eta} V_{10}''(z) \right)$$