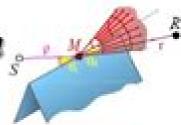
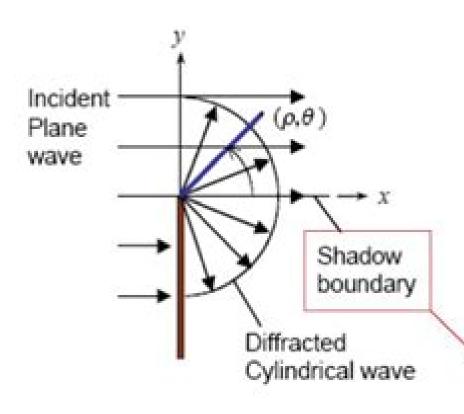
GTD – Geometrical Theory of Diffraction





Total field

$$E_{GID} = E_{G0}U(\theta) + E_{D}$$

Incident plane wave

$$E_{G0} = E_0 e^{-jkx}$$

Diffracted wave

$$E_D = E_0 e^{-j\pi/4} \frac{e^{-jk\rho}}{\sqrt{\rho}} D(\theta)$$

$$D(\theta) = \frac{-1}{\sqrt{2\pi k}} \frac{1 + \cos \theta}{2 \sin \theta}$$

GTD is not valid near the shadow boundary $\theta = 0$ where $D(\theta) = \infty$.

Geometric Theory Of Diffraction

S Marginson

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