

Theory of Planar Optical Waveguides

Consider a z -directional planar (slab) waveguide with the refractive index profile

$$n(x) = \begin{cases} n_2, & x \geq d \\ n_1, & |x| \leq d \\ n_3, & x \leq -d \end{cases}, \text{ its eigenmodes are}$$

Case 1 TE modes: $\vec{E} = \hat{y}E_y(x)$

$$E_y(x) = \begin{cases} E_0 e^{-p(x-d)}, & x \geq d \\ E_0 \left[\cos[h(x-d)] - \frac{q}{h} \sin[h(x-d)] \right], & |x| \leq d \\ E_0 \left[\cos(2hd) + \frac{q}{h} \sin(2hd) \right] e^{p(x+d)}, & x \leq -d \end{cases}, \text{ where } q = \sqrt{\beta^2 - n_2^2 k^2},$$

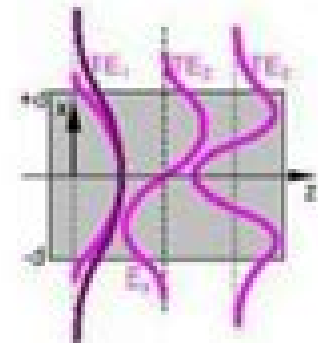
$$p = \sqrt{\beta^2 - n_3^2 k^2}, \quad h = \sqrt{n_1^2 k^2 - \beta^2}, \quad \text{and } \tan(2hd) = \frac{P+q}{h - \frac{Pq}{h}} \Rightarrow \text{Solve } \beta=?$$

Case 2 TM modes: $\vec{H} = \hat{y}H_y(x)$

$$H_y(x) = \begin{cases} -H_0 \frac{h}{q} e^{-p(x-d)}, & x \geq d \\ H_0 \left[-\frac{h}{q} \cos[h(x-d)] + \sin[h(x-d)] \right], & |x| \leq d \\ -H_0 \left[\frac{h}{q} \cos(2hd) + \sin(2hd) \right] e^{p(x+d)}, & x \leq -d \end{cases}, \text{ where } q' = \frac{n_2^2}{n_1} \cdot q, \quad p' = \frac{n_3^2}{n_1} \cdot p,$$

$$\text{and } \tan(2hd) = \frac{P'+q'}{h - \frac{P'q'}{h}} \Rightarrow \text{Solve } \beta=?$$

Condition of single-mode waveguide: β has exactly only one value.



Optical Waveguide Theory

Puja Mehta



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