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6ROXWLRQV0DQXDO

3UHOLPLQDU\ &KDSWHU

'HFHPEHU Figure 2Q1-1

Amplitude of the electric field

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across the planar dielectric waveguide. Red,  $m = 0$ ; blue,  $m = 1$ ; black,  $m = 2$ .

### 2.2 Standing waves inside the core of a symmetric slab waveguide

Consider a symmetric planar

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required. 2.15 Group velocity of  
the fundamental mode

Reconsider Example 2.3.4, which  
has a single mode ...

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December 2012 The beam width at a distance of 10 m is  $2w = 2w_0[1 + (z/z_0)^2]^{1/2} = (0.8 \times 10^{-3} \text{ m})\{1 + [(10 \text{ m})/(0.79 \text{ m})]^2\}^{1/2} = 0.01016 \text{ m}$  or 10.16 mm.

1.5 Gaussian beam in a cavity with spherical mirrors Consider an

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optical cavity formed by two aligned spherical mirrors facing each other as shown in Figure 1.54.

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