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Amplitude of the electric field 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

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symmetric planar

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2. 2.20. 11 December 2012. $b(\omega/k) = n_1^2 - n_2^2$ as required. 2.15 Group velocity of
the fundamental mode Reconsider
Example 2.3.4, which has a single mode
...

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Kasap 3 . 9 7 March 2002 and $L_h = \sqrt{D_h \tau_h} = \sqrt{[(11.63 \text{ cm}^2 \text{ s}^{-1})(490.2 \times 10^{-9} \text{ s})]} = 2.39 \times 10^{-3} \text{ cm}$,
or $23.9 \mu\text{m}$ The diffusion component of
the current is $I = I_{\text{diff}} = I$ so $[\exp(eV$

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$\exp(eV/kT) - 1] \approx \exp(eV/kT)$ for $V \gg kT/e$ (≈ 0.02585 V) where $I_{so} = A J_{so} = A e n_i^2 [(D_h/L_h N_d) + (D_e/L_e N_a)] \approx A e n_i^2 D_h/L_h N_d$ as $N_a \gg N_d$.

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