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

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## ~~Optoelectronics and Photonics~~

The fiber becomes multimode when  $V = \frac{2\pi a}{\lambda} \sqrt{n_1^2 - n_2^2} > 2.405$  or  $\lambda < \frac{2\pi a}{2.405} \sqrt{n_1^2 - n_2^2} = \frac{2\pi(4 \mu\text{m})}{2.405} \sqrt{1.468^2 - 1.464^2} = 1.13 \mu\text{m}$   
For wavelengths shorter than  $1.13 \mu\text{m}$ , the fiber is a multi-mode waveguide. cThe numerical aperture NA is  $NA = \sqrt{n_1^2 - n_2^2} = \sqrt{1.468^2 - 1.464^2} = 0.108$  d If  $\theta_{\text{max}}$  is the maximum ...

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