

For example, assuming an LED with a spectral rms deviation of about 20 nm, and a D_w 200 ps km⁻¹ nm⁻¹ (at about 850 nm) we would find the material dispersion as

$$\tau_{\text{material}} = (200 \text{ ps km}^{-1} \text{ nm}^{-1})(20 \text{ nm})(1 \text{ km}) = 4000 \text{ ps km}^{-1} \text{ or } 4 \text{ ns km}^{-1},$$

which is substantially smaller than the internode dispersion and can be neglected.

2.11 A water jet guiding light One of the early demonstrations of the way in which light can be guided along a higher refractive index medium by total internal reflection involved illuminating the starting point of a water jet as it comes out from a water tank. The refractive index of water is 1.330. Consider a water jet of diameter 3 mm that is illuminated by green light of wavelength 560 nm. What is the V -number, numerical aperture, total acceptance angle of the jet? How many modes are there? What is the cut-off wavelength? The diameter of the jet increases (slowly) as the jet flows away from the original spout. However, the light is still guided. Why?



Light guided along a thin water jet. A small hole is made in a plastic soda drink bottle full of water to generate a thin water jet. When the hole is illuminated with a laser beam (from a green laser pointer), the light is guided by total internal reflections along the jet to the tray. Water with air bubbles (produced by shaking the bottle) was used to increase the visibility of light. Air bubbles scatter light and make the guided light visible. First such demonstration has been attributed to Jean-Daniel Colladon, a Swiss scientist, who demonstrated a water jet guiding light in 1841.

Solution

V -number

$$V = (2a/\lambda)(n_1^2 n_2^2)^{1/2} = (2 \times 1.5 \times 10^{-3} / 560 \times 10^{-9})(1.330^2 1.000^2)^{1/2} = \mathbf{15104}$$

Numerical aperture

$$\text{NA} = (n_1^2 n_2^2)^{1/2} = (1.330^2 1.000^2)^{1/2} = \mathbf{0.8814}$$

Total acceptance angle, assuming that the laser light is launched within the water medium

$$\sin_{\text{max}} = \text{NA}/n_0 = 0.8814/1.33 \text{ or } \theta_{\text{max}} = 41.4^\circ.$$

Total acceptance $2\theta_a = \mathbf{82.8}$

Modes $= M = V^2/2 = (15104)^2/2 = \mathbf{1.14 \times 10^8 \text{ modes}}$ (~100 thousand modes)

The cutoff wavelength corresponds to $V = 2.405$, that is $V = (2a/\lambda)\text{NA} = 2.405$

$$\lambda_c = [2a\text{NA}]/2.405 = [(2)(4 \text{ m})(0.8814)]/2.405 = \mathbf{3.5 \text{ mm}}$$

The large difference in refractive indices between the water and the air ensures that total internal reflection occurs even as the width of the jet increases, which changes the angle of incidence.

2.12 Single mode fiber Consider a fiber with a 86.5%SiO₂-13.5%GeO₂ core of diameter of 8 μm and refractive index of 1.468 and a cladding refractive index of 1.464 both refractive indices at 1300 nm

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Camilla Rothe



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Nonlinear Photonics Jia-Ming Liu, 2022-01-06 A robust introduction to real world nonlinear photonics for students of electrical engineering *Optoelectronics and Photonics* Safa O. Kasap, 2001 This book takes a fresh look at the last three decades and enormous developments in the new electro optic devices and associated materials General Treatment and various proofs are at a semiquantitative level without going into detailed physics Contains numerous worked examples and solved problems Chapter topics include wave nature of light dielectric waveguides and optical fibers semiconductor science and light emitting diodes photodetectors photovoltaic devices and polarization and modulation of light For the study of optoelectronics by electrical engineers *Instructor's Solutions Manual for Photonics: Optical Electronics in Modern Communications, Sixth Edition* Amnon Yariv, Pochi Yeh, 2006-01-01 *Fiber Optics Yellow Pages* , **Handbook of Optical Metrology** Toru Yoshizawa, 2017-07-28 Handbook of Optical Metrology Principles and Applications begins by discussing key principles and techniques before exploring practical applications of optical metrology Designed to provide beginners with an introduction to optical metrology without sacrificing academic rigor this comprehensive text Covers fundamentals of light sources lenses prisms and mirrors as well as optoelectronic sensors optical devices and optomechanical elements Addresses interferometry holography and speckle methods and applications Explains Moir metrology and the optical heterodyne measurement method Delves into the specifics of diffraction scattering polarization and near field optics Considers applications for measuring length and size displacement straightness and parallelism flatness and three dimensional shapes This new Second Edition is fully revised to reflect the latest developments It also includes four new chapters nearly 100 pages on optical coherence tomography for industrial applications interference microscopy for surface structure analysis noncontact dimensional and profile metrology by video measurement and optical metrology in manufacturing technology

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