

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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web sep 1 2022 [user19831876](#) at its most basic index php is the first file that will show up when a browser goes to the site or a directory beyond that it can be used for whatever the site project dictates for more complicated sites or frameworks it

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web feb 24 2021 in the context of web development localhost index php refers to the index php php file located in the root directory of a local web server this file is frequently used as the starting point or default page for a php web application

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web jan 8 2013 [myserver com](#) there is an order of extensions filenames which the webserver apache searches for an index document for example an apache config may contain a section like ifmodule mod_dir c directoryindex index html index cgi index pl index php index xhtml index htm ifmodule

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web tarayıcıyı kullanarak http sunucusunun adresine erişilebilir bunun için sunucu alan adının sonuna merhaba php eklemek yeterli olacaktır yerel olarak geliştirme yaparken bu url localhost merhaba php veya 127 0 0 1 merhaba php ya da 1 merhaba php gibi bir şey olacaktır ancak bu http sunucusunun

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web dec 26 2011 evet arkadaşlar index php bu kullanım nedir ne işe yarar index php sayfası bu kullanım sayesinde birden çok sayfa olarak kullanılabiliniyor galiba bunun faydaları neler örneğin index php ve iletişim php yerine index php ref anasayfa veya index php ref iletişim kullanımı ne işe yarar biri bana özetleyebilir mi

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web use your browser to access the file with your web server s url ending with the hello php file reference when developing locally this url will be something like localhost hello php or 127 0 0 1 hello php but

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web tarayıcı bir dizini görüntülemek istediğinde apache web sunucusu varsayılan olarak index html adında bir dosya arar ve bulursa onu yükler ve gösterir index html yoksa index php isminde bi Üye İşlemleri

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