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Efficient Simulation of 3D Electro-optical Waveguides ...

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Blog

I have been confront with a new problem when I am analyzing the mode of a optical waveguide in comsol mutiphysics. The waveguide is 3D. I

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want to consider the injection of light in one port of the waveguide and then examine which mode can be excited, but I don't know how to do it.

~~XXXXXXXXXXXX/XX ... COMSOL XX~~
Busca Rápida ...

~~Analysis Of Linearly Polarized Modes~~

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Step-Index Fiber Simulation. by Bjorn Sjodin. April 23, 2013. Optical fibers are used to transmit information in the form of light through an optical waveguide made of glass fibers. ... A soon-to-come blog post will describe some new and exciting technologies that we at COMSOL are working on to make this

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easier.

~~Wave Optics Module – ETH Z~~

- Optics Simulation with COMSOL Multiphysics®
- Simulating Graphene-Based Photonic and Optoelectronic Devices
- Live Demo – Graphene Frequency and Time Domain Modeling

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~~Simulating Wave Optics with COMSOL Multiphysics®~~

COMSOL, the COMSOL logo, COMSOL Multiphysics, COMSOL Desktop, COMSOL Server, and ... The module is useful for simulations and design of optical applications in virtually all ... with a cylindrical symmetry. 2D mode analysis of waveguide cross sections with out-

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~~Optical Trapping on Waveguides—
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Efficient Simulation of 3D Electro-optical Waveguides Using the Effective Refractive Index Method. M. Herlitschke, ... Moreover the algorithm could be successfully used to simulate large-size passive or electro-optically active

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Modelling Of Optical Waveguide Using
COMSOL Multiphysics *1Action
Nechibvute, 2Courage Mudzingwa,
1,2Physics Department, Midlands State
University, P/Bag 9055, Gweru,
Zimbabwe Abstract In this paper we
investigate by simulation the

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dependence of the numerical aperture, normalized

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—comsol.fr~~

Efficient Simulation of 3D Electro-optical Waveguides Using the Effective Refractive Index Method. M. Herlitschke, M. Blasl, ... 3D FEM simulation of

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millimeter-scale, complex electro-optically induced waveguide based devices demands the use of grids with more than several million nodes.

~~Efficient Simulation of 3D Electro-optical Waveguides ...~~

Trapping on an optical waveguide can be used to manipulate particles in a lab-

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on-a-chip system where optical methods are also used to detect and characterize the particles. The particles are normally submerged in water (acting as top-cladding) and various types of particles can be trapped, e.g. gold nanoparticles [1], polystyrene microspheres [2, 3], nanorods [4], red blood cells [5, 6], etc.

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Simulation can be used to validate optical system designs with experimental data and theory. However, traditional simulation methods for optically large structures, where the geometry is much larger than the electromagnetic wavelength, can be

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computationally expensive and time consuming.

~~Analyze Micro and Nano Optical ...
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Parallel plates waveguide simulation on COMSOL Ahmed Saleh. ... In this model I make an accurate modeling for a parallel plate waveguide on Comsol to study its

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behavior and see the different ...

~~Modelling Of Optical Waveguide Using COMSOL Multiphysics~~

field, a simulation in Comsol 4.0 has been made with two optical fibers. The optical fiber has the core of 8 μm , or 50 and 62.5 μm . All three types of fiber have 125 μm coating. The fiber core is

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made of pure silica, whose refractive index is 1.4457. The cladding is made by silica, with a refractive index of 1.4378.

~~Efficient Simulation of 3D Electro-optical ... COMSOL~~

Grating couplers are a common optical component for introducing light into chip-based photonic structures. They are

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used extensively for optical interconnects and optical device integration. A microfluidic diffraction grating coupled waveguide (MDGCW) biosensor applies a grating coupler for label-free detection of a biological analyte.

~~Parallel plates waveguide simulation on~~

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I am simulating a 2D optical waveguide for both TE and TM modes. For TE waves I get reasonable result by setting the cladding core interface as perfect electric conductor. I use excitation port with analytic mode and exist port also as analytic mode. However, for TM modes I do not get a reasonable result (please

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see attached file).

~~How To Model And Simulate 3D
Geometry? | COMSOL Multiphysics
Tutorial 2~~

Learn the basics of using the Wave Optics Module in this 18-minute archived webinar, featuring a directional coupler model as an example. The Wave Optics

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Module is an add-on to the COMSOL Multiphysics ® software for full-wave electromagnetics simulation, providing design and optimization capabilities for applications including directional couplers, metamaterials, scattering by nanoparticles ...

~~Simulating 2D optical waveguide~~

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Watch this video to learn the building of 3D geometry and simulation in COMSOL! For an example, I have modeled and simulated a piece of circular waveguide. This video also includes the application ...

~~Efficient Simulation of 3D Electro-optical~~

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~~Waveguides ...~~

COMSOL, COMSOL Multiphysics, Capture the Concept, COMSOL Desktop, ... The module is useful for simulations and design of optical applications in virtually all ... symmetry. 2D mode analysis of waveguide cross sections with out-of-plane propagation is also supported.

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