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The Wave Optics 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,

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scattering by nanoparticles, and nonlinear optical waveguides. The Wave Optics Module features the innovative beam envelope method that enables the simulation of optically large systems where the wavelength is substantially smaller than the system geometry ...

Simulating Wave Optics with

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COMSOL Multiphysics®

Examples of use cases include directional couplers, nonlinear optical waveguides, optically large systems, metamaterials, and more. The COMSOL Multiphysics® software offers capabilities for modeling such systems and creating specialized simulation applications. In this webinar, we will

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demonstrate the modeling of a silicon rib waveguide.

The Basics of Wave Optics Simulation with COMSOL® in 18 ...

The Wave Optics Module, an add-on to the COMSOL Multiphysics® platform software, is an efficient choice for your optical modeling needs. The Wave

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Optics Module includes a specialized beam envelope method that can be used to simulate optically large devices with far fewer computational resources than traditional methods.

Wave Optics Software for Analyzing ... - COMSOL Multiphysics

I am simulating a 2D optical waveguide

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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 see attached file).

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Simulating 2D optical waveguide - COMSOL Multiphysics

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

Modelling Of Optical Waveguide Using COMSOL Multiphysics

Before doing these studies, experimentally, the structure was carefully studied using COMSOL Multiphysics® software module.

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Modelling and simulation of a ridge waveguide and a Mach - Zehnder interferometer was done. An optical ridge waveguide is made; width was chosen as 3 microns for 1550 nm wavelength electromagnetic wave.

**Waveguides and Interferometers :
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In this video, we will learn how to perform the mode analysis for the rectangular waveguide. You can find the number of modes that can be propagated with the lowest attenuation in any type of ...

EM Mode Analysis For The Rectangular Waveguide | COMSOL

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Multiphysics Tutorial-5

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 ...

How To Model And Simulate 3D

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Geometry? | COMSOL Multiphysics Tutorial-2

COMSOL tutorial for dispersion engineering in micro-ring resonators. This content is presented at FEM workshop organized by EPFL in OMT ETN workshop series.

COMSOL simulation tutorial:

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Dispersion Engineering in Micro-ring Resonators

In this video, we will learn how to perform the mode analysis. You can find the number of modes that can be propagated with the lowest attenuation in any type of structure. If you have any query ...

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EM Mode Analysis For The Circular Waveguide | COMSOL Multiphysics tutorial 4

Tutorial on how to simulate optomechanical coupling in photonic crystal cavities in COMSOL. This content is presented at FEM workshop organized by EPFL in OMT ETN workshop series.

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COMSOL simulation tutorial: Optomechanical Coupling in Photonic Crystal Cavities

How can I calculate an effective refractive index by using comsol? ... I modeled my design in COMSOL in wave optics (ewfd) and use mode analysis. ... Once you have made the simulation in the ...

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How can I calculate an effective refractive index by using ...

COMSOL Multiphysics 5.2 Release

Highlights Download Version 5.2. Menu.

... The transmission speed of optical waveguides is superior to microwave waveguides because optical devices have a much higher operating frequency

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than microwaves, enabling a far higher bandwidth. ... The Simulation of Concentric Optical Fibers app user interface, showing ...

Wave Optics Module - COMSOL 5.2 Release Highlights

The geometry is optimized to allow light from a regular 125 μm cladding single

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mode optical fiber to coupled light easily into the waveguide without additional optics. The subsequent tapered waveguide helps guide the light into a $19 \times 95 \mu\text{m}$ cantilever section of the waveguide, where the length of the cantilever is $450 \mu\text{m}$ long.

A 2-D Microdisplay Using An

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Integrated Microresonating ...

4.1 EO waveguide The simulation of large size 3D waveguide structures with a Comsol direct solver is limited by the amount of needed memory and long computation times. On the other hand, the memory required to solve a 3D problem with a number of discrete elements is obviously smaller for a 2D

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problem with the same

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

Optical engineers and designers in the automotive, aerospace, microelectronics, energy, medical device, and other fields that use optical waveguides will benefit from this

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webinar. About COMSOL: COMSOL is a global provider of software solutions for multiphysics modeling.

Waveguide Simulation with the Beam Envelope Method ...

Waveguide Simulation with the Beam Envelope Method
The beam envelope method is an efficient numerical tool for

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solving nonlinear optics in long and slender structures, such as optical waveguides, laser rods, and more. This webinar will demonstrate...

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applications of germanium fiber waveguides include the development of

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mid-infrared endoscopes and photodetectors. Here, we try to investigate and design small core diameter germanium core silica cladding optical fibers with low optical loss at mid-infrared. Theoretical loss measurements were calculated using COMSOL Multiphysics®

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Design of Next Generation Mid-infrared Fiber Optics

Before doing these studies, experimentally, the structure was carefully studied using COMSOL Multiphysics® software module. Modelling and simulation of a ridge waveguide and a Mach - Zehnder interferometer was done. An optical

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ridge waveguide is made; width was chosen as 3 microns for 1550 nm wavelength electromagnetic wave.

Waveguides and Interferometers - COMSOL Multiphysics®

Wave Optics Module Updates. For users of the Wave Optics Module, COMSOL Multiphysics® version 5.3a brings

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automatic physics-controlled meshing, a Helmholtz-compliant implementation for Gaussian background fields, new postprocessing variables, and more. Browse all of the Wave Optics Module updates below. Physics-Controlled Meshing

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