Comsol Optical Wave Simulation

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Comsol Optical Wave Simulation
In this archived webinar, learn how to use the beam envelope method in COMSOL Multiphysics ® to solve nonlinear optics problems. We go over the benefits of this method and advanced examples. Learn more about the specialized features for waveguide simulation in the Wave Optics Module here.

Simulating Optical Waveguides with COMSOL Multiphysics®
The Wave Optics Module, an add-on to the COMSOL Multiphysics ® platform software, is an efficient choice for your optical modeling needs. The Wave 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 Micro- and Nano-Optical ...
Wave optics simulation brings new opportunities for the design and optimization of optical systems. Watch this archived webinar on the basics of modeling and simulating wave optics for application areas such as directional couplers, nonlinear optical waveguides, optically large systems, and metamaterials.

Simulating Wave Optics in COMSOL Multiphysics®
Performing lens simulations in wave optics is generally difficult, because it requires a lot of mesh elements. In this blog post, we demonstrate how the Wave Optics Module, an add-on to the COMSOL Multiphysics® software, can be used to perform lens simulations based on Maxwell’s equations. Introduction to the Optics Simulation Methods

How to Perform Lens Simulations Using the Wave Optics ...
The Wave Optics Module is an add-on product to the COMSOL Multiphysics ® simulation software platform. You can use the Wave Optics Module to efficiently model and optimize optical systems and photonic devices. Typically, simulating geometrically large wave optics problems is both time consuming and computationally demanding.

Wave Optics Module | COMSOL Inc. | Promoted Content
The Wave Optics Module solves problems in the field of electromagnetic waves at optical frequencies (corresponding to wavelengths in the nano- to micrometer range). The underlying equations for electromagnetics are automatically available in all of the physics interfaces — a feature unique to COMSOL Multiphysics.

Wave Optics Module - COMSOL Multiphysics
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, scattering by nanoparticles, and nonlinear optical waveguides.

Simulating Wave Optics with COMSOL Multiphysics®
Tutorial on how to simulate optical periodic structures and photonic crystals in COMSOL. Presented by: Mohammad Bereyhi: mohammad.bereyhi@epfl.ch This conten...

COMSOL simulation tutorials: Optical Periodic Structures ...
The simulation of optics and photonics is used extensively for both commercial and academic work. The optics R&D community was an early adopter of the COMSOL Multiphysics® software for the simulation of optical fibers, plasmonics, laser-material interactions, photonic switches, organic LEDs, and more.

2 Video Discussions on Multiphysics Simulation of Optics ...
Setting Up a Geometrical Optics Simulation in the COMSOL® Software. A geometrical optics simulation implicitly assumes that every ray is already in the far field. Earlier in the blog series, we saw that the Far-Field Domain feature correctly calculates the electric field at arbitrary points in the far field. Here, we use that information as the input for rays in a geometrical optics simulation.

How to Couple a Full-Wave Simulation to a Ray Tracing ...
In this introductory wave optics modeling example, we demonstrate how to model a small lossy scatterer in the proximity of an optical waveguide in COMSOL®. × Warning Your internet explorer is in compatibility mode and may not be displaying the website correctly.

Modeling a Scatterer Near an Optical Waveguide | COMSOL Blog
Wave Optics Module Updates. For users of the Wave Optics Module, COMSOL Multiphysics ® version 5.4 brings additional boundary conditions for the Electromagnetic Waves, Beam Envelopes interface for modeling thin dielectric layers, antireflective coatings, and mirror-like surfaces. Browse all of the Wave Optics Module updates in more detail below.

Wave Optics Module Updates - COMSOL® 5.4 Release Highlights

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

Waveguides and Interferometers : Simulations studies on ...
In this work COMSOL Multiphysics was applied to the full 3D electromagnetic wave simulation of a novel forked grating coupler designed to interface with vortex modes of 1550 nm wavelength light. Full 3D models were solved for the radiating vector mode from a forked grating emitter structure driven from a nanophotonic waveguide.

Simulation of Vector Mode Grating Coupler ... - COMSOL □□
Full-wave simulation of a lens system including multiple optical components. (Courtesy of COMSOL) Full-wave simulations for multicomponent optical systems (see Fig. 2) have previously been out of reach. However, using the methods outlined in the article, an entire optical system, including lenses and other optical components, can be simulated ...