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Different plasmonic waveguide structures have been proposed, such as layered structures, metallic nanowires, metallic nanoparticle arrays, hybrid wedge plasmonic waveguides, and other configurations. Here, a typical plasmonic waveguide consisting of a thin film sandwiched between a cladding cover and a substrate will be considered.

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Waveguide Using COMSOL Multiphysics F. Frezza¹, P. Nocito², and E. Stoja¹ ¹Dept. of Information Engineering, Electronics and Telecommunications Sapienza University of Rome, Rome, Italy ²Communication Department, Istituto Superiore per le Comunicazioni Ministry of Economic Development, Rome, Italy COMSOL Conference 2011 Stuttgart. Outline Introduction Plasmonic Slot Waveguide Mode Properties ...

Modal Characterization of the Plasmonic Slot Waveguide ...

Plasmonic Waveguide Filter Application ID: 60001 This example of a plasmonic waveguide filter shows that the waveguide rejects the electromagnetic radiation of the wavelength between 1.4 μm and 1.6 μm , but allows the rest of the wavelength.

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? Perpendicular waves of RF module- mode analysis ? PML boundary condition ? A core region with a rectangular array of four air holes (to provide the birefringence) ? A conventional circular-air-hole cladding (to reduce the confinement loss).

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KNOWLEDGE BASE Using symmetries in COMSOL Multiphysics; FORUM Regarding Mode Analysis ; FORUM Plasmonic Waveguide Analysis. FORUM Simulation of 2D and 3D optical fiber for frequency domain for mode analysis and boundary mode analysis using comsol 5.5.

mode analysis of a waveguide - COMSOL

Plasmonic Waveguide Analysis K. C. Koppenhoefer¹, S. Yushanov¹, J. S. Crompton¹ ¹AltaSim Technologies, Columbus, OH, USA Abstract Surface Plasmons (SP) or Surface Plasmon Polaritons (SPP) are electromagnetic excitations that propagate at the interface between a dielectric and a conductor, and are evanescently confined in the perpendicular direction to the propagation. They arise via coupling ...

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LiNbO₃-based device comprises of a photonic probe module, light coupling module and a photo detector. LiNbO₃ is deposited using pulsed laser deposition system, on a silicon substrate. The waveguide / Interferometer structure is further patterned using conventional photolithography.

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Plasmonic Waveguide Filter Application ID: 60001 This example of a plasmonic waveguide filter shows that the waveguide rejects the electromagnetic radiation of the wavelength between 1.4 μm and 1.6 μm , but allows the rest of the wavelength.

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Modal Characterization of the Plasmonic Slot Waveguide ...

Model a plasmonic waveguide filter in the COMSOL Multiphysics® software. This example includes a downloadable MPH-file and accompanying tutorial blog post.

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