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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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## Plasmonic Waveguide Analysis - COMSOL

Waveguide Using COMSOL Multiphysics F. Frezza<sup>1</sup>, P. Nocito<sup>2</sup>, and E. Stoja<sup>1</sup> <sup>1</sup>Dept. of Information Engineering, Electronics and Telecommunications Sapienza University of Rome, Rome, Italy <sup>2</sup>Communication 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  $\mu\text{m}$  and 1.6  $\mu\text{m}$ , but allows the rest of the wavelength.

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## 3D Boundary mode analysis for plasmonic waveguide - comsol.it

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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. Koppenhoefer <sup>1</sup>, S. Yushanov<sup>1</sup>, J. S. Crompton<sup>1</sup> <sup>1</sup>AltaSim 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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LiNbO<sub>3</sub>-based device comprises of a photonic probe module, light coupling module and a photo detector. LiNbO<sub>3</sub> is deposited using

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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  $\mu\text{m}$  and 1.6  $\mu\text{m}$ , but allows the rest of the wavelength.

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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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