

### Waveguide Coupler

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#### Waveguide Coupler

RF waveguide couplers are circuits that sample radio frequency (RF) transmissions by coupling signals asymmetrically. There are three basic types of products: unidirectional, bidirectional, and dual ...

#### RF Waveguide Couplers Information

such as waveguide couplers and modulators. In this chapter, we consider the basic characteristics of linear, lossless dielectric waveguides. Optical fibers are discussed in Chapter 3. Other waveguide ...

#### Part II: Waveguides and Couplers

Integrated-photonics systems often require coupling between the on-chip waveguide-based photonics and an optical fiber for input, output, or both. One common approach for fiber-grating couplers on ...

#### Heuristically optimized SOI grating couplers have low loss

We also experimentally verified the waveguide mode removal in organic waveguides with ... However, these approaches are either wavelength dependent due to the existence of coupling resonance or ...

Tackling light trapping in organic light-emitting diodes by complete elimination of waveguide modes  
Haubenreisser, W. and Ecke, W. 1996. Extended novel slab model analysis of overlaid bent step-index single-mode fiber half-couplers. I. Basic formalism and normal-mode approach. *physica status solidi* ...

#### 12 - Leaky modes in optical waveguides

a 12-dB loss was measured over distances of both 1 mm and 1 cm (any difference was undetectable with

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their equipment), suggesting that the input coupling, rather than absorption in the waveguide, was ...

Local oxidation creates buried waveguides

Such processes are now being made possible by a spectrometer, weighing just one gram, developed by the Fraunhofer Institute for Electronic Nano Systems (ENAS), in Chemnitz, Germany. The aim is to mass ...

Fraunhofer ENAS developing '1g spectrometer' for smart phone integration

UC Santa Barbara electrical and materials professor John Bowers pioneered a method for integrating a laser onto a silicon wafer. The technology has since been widely deployed in combination with other ...

The first commercially scalable integrated laser and microcomb on a single chip

Efficient coupling of single molecules to photonic waveguide structures was recently demonstrated as an elementary building block. It should be possible to investigate the optical coupling between ...

Nano Quantum Optics

Here is a classic project used to increase wireless signal strength. Cantennas focus using a waveguide very much like a magnifying glass focuses light. [Robert] made a Natural Light beer antenna ...

Various Cantenna Builds

Array synthesis. Mutual coupling. Log-periodic and Yagi arrays. Radiation from apertures: the waveguide horn antenna, parabolic dish. Antenna noise temperature. Numerical software packages. A design ...

EECE.5060 Antenna Theory and Design (Formerly 16.506)

□ measurement of standing wave ratio (swr). □ attenuation measurements. □ directional coupler's basic properties. □ study of a waveguide hybrid-t. . General characteristics. □ frequency range : ...

Microwave Trainer

The light of different wavelengths is then fragmented using a tunable filter and conducted to a detector by means of integrated waveguides. Grating couplers with nanostructures bundle the light ...

Miniature spectrometer for the smartphone

It has been a long-held belief that resonators and waveguides can only poorly interface to single ... This can lead to large coupling efficiencies and interfaces between quantum emitters and ...

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### Transparent Sub-diffraction Photonics

Our activities focus on three core constituents of chip-scale quantum optics: Design of efficient interfaces between optical waveguides and single-photon sources. Development of nanophotonic devices ...

### Integrated quantum technology

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