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Integrated Ring Resonators The Compendium

The optical filter, which has emerged in the last few years in integrated optics, is resonator based. Ring-resonator filters do not require facets or gratings for optical feedback and are thus particularly suited for monolithic integration with other components. Ring resonators find applications not only in optical networks, but also as sensors.

Integrated Ring Resonators - The Compendium | Dominik G ...

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Coupled Racetrack Resonators," in 2010 International Conference on Optical MEMS & Nanophotonics (2010). 11. D. G. Rabus, Integrated Ring Resonators: The Compendium, 1st ed. (Springer, 2007). 12. N. Rouger, L. Chrostowski, and R. Vafaei, "Temperature Effects on Silicon-on-Insulator (SOI) Racetrack Res-

Series-coupled silicon racetrack resonators and the ...

of ring resonators. 2.1. All-pass ring resonators In its simplest form a ring resonator can be constructed by feeding one output of a directional coupler back into its input, the so-called all-pass filter (APF) or notch filter con-figuration (see Fig.2A). The term ring resonator is typically used to indicate any looped resonator, but in the ...

Silicon microring resonators - UGent

Integrated ring resonators are compact, integrated micro structures which can be used for Multiplexing/Demultiplexing, Modulation/ Demodulation, Switching and filtering of optical signals. This paper gives an overview of applications of Ring Resonators in modern optical communication system especially with Micro Electro Mechanical Systems (MEMS).

Micro Ring Resonator Based Optical Filters for WDM ...

Extending the cavity length of diode lasers with feedback from Bragg structures and ring resonators is highly effective for obtaining ultra-narrow laser linewidths. However, cavity length extension also decreases the free-spectral range of the cavity. This reduces the wavelength range of continuous laser tuning that can be achieved with a given phase shift of an intracavity phase tuning element.

OSA | Ring resonator enhanced mode-hop-free wavelength ...

A computer-simulated ring resonator depicting continuous wave input at resonance. An optical ring resonator is a set of waveguides in which at least one is a closed loop coupled to some sort of light input and output. (These can be, but are not limited to being, waveguides.)

Optical ring resonators - Wikipedia

A split-ring resonator (SRR) is an artificially produced structure common to metamaterials.Their purpose is to produce the desired magnetic susceptibility (magnetic response) in various types of metamaterials up to 200 terahertz.These media create the necessary strong magnetic coupling to an applied electromagnetic field, not otherwise available in conventional materials.

Split-ring resonator - Wikipedia

Abstract: This paper presents recent results on widely-tunable narrow-linewidth semiconductor lasers using a ring-resonator based mirror as the extended cavity. Two generations of lasers on the heterogeneous Si/InP photonic platform are presented. The first-generation lasers, with a total footprint smaller than 0.81 mm², showed an intrinsic linewidth of ~2 kHz over a 40 nm wavelength tuning ...

Ring-Resonator Based Widely-Tunable Narrow-Linewidth Si ...

D. G. Rabus, Integrated Ring Resonators: the Compendium, Springer Series in Optical Sciences (Springer, Berlin, 2007), p. xv. H. Vahlbruch, M. Mehmet, S. Chelkowski, B. Hage, A. Franzen, N. Lastzka, S. Gossler, K. Danzmann, and R. Schnabel, "Observation of squeezed light with 10-dB quantum-noise reduction," Phys. Rev. Lett. 100(3), 033602 (2008).

OSA | Integrated GaN photonic circuits on silicon (100 ...

We demonstrate wideband integrated photonic circuits in sputter-deposited aluminum nitride (AlN) thin films. At both near-infrared and visible wavelengths, we achieve low propagation loss in integrated waveguides and realize high-quality optical resonators. In the telecoms C-band (1520-1580 nm), we obtain the highest optical factor. Q of 440,000.

High Q micro-ring resonators fabricated from ...

R. G. Walker and C. D. W. Wilkinson, "Integrated optical ring resonators made by silver ion-exchange in glass" Appl. Optics 22, 1029-1035 (1983). R. Adar, M. R. Serbin, and V. Mizrahi, "Less than 1 dB Per Meter Propagation Loss of Silica Waveguides Measured Using a Ring Resonator" J. Lightwave Technol. 12, 1369-1372 (1994).

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