Fiber Bragg Grating WDM System

This paper describes the principle of the optical fiber grating and techniques for its manufacture, and introduces some products applying fiber gratings in WDM systems.

Fiber Bragg grating has embraced the area of fiber optics since the early days of its discovery, and most fiber optic sensor systems today make use of fiber Bragg

A bare fiber Bragg grating (FBG) for temperature measurement, an FBG with lamellar polyimide (PI) coating for salinity measurement and a diaphragm-based extrinsic Fabry-Perot

Fiber Bragg grating (FBG) is a fiber-type grating in which UV fringe forms a periodic refractive index change in the fiber core through the photosensitivity. FBG has a sharp wavelength-selective

Fiber Bragg gratings are reflective structures in the core of an optical fiber with a periodic or aperiodic perturbation of the effective refractive index.

In this paper, a cascaded fiber Bragg grating (FBG) system is proposed to reduce the dispersion in the optical signal in single mode optical fibers. This consequently enhances the system performance,

Although fiber Bragg gratings would appear to be a more natural choice for system based on fiber optics, these have the disadvantage of allowing only retro

Abstract: A Bismuth-doped fiber-optic amplifier (BDFA) system in which a Bismuth-doped optical fiber (BDF) is pumped by a fiber-laser pump (rather than by a semiconductor pump). Because higher

Abstract Aiming at the problem that traditional peak-seeking algorithms cannot directly detect multiple reflections of Fiber Bragg Grating (FBG) sensing systems, this paper proposes a multi

Fiber Bragg gratings are versatile wavelength filters for multiplexing and demultiplexing wavelength division multiplexing (WDM) signals. They also can

Utilizing this fiber as the gain medium, a dual-wavelength laser operating at 1320 nm and 1436 nm was constructed. Enabled by a simplified single-pump and single-fiber Bragg grating (FBG) architecture,

Fiber Bragg grating (FBG) sensors have generated a great interest in recent years. They have proven to be reliable sensors to measure various physical, chemical and biological parameters

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R.O.C. Abstract: We present the synthesis of multi-channel fiber Bragg grating (MCFBG) filters for

Transmission and reflection in two cascaded stages of fiber Bragg grating using first and second order are studied. The mathematical equations for

In this paper, we propose and experimentally demonstrate a series of new all-fiber, tunable, and highly selective filters based on fiber gratings and Fabry-Perot"s, The structures combine high

This paper presents a Wavelength-Time Division Multiplexing (WTDM) sensor network with failure detection capabilities based on fiber Bragg grating (FBG). The network architecture

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