

Latvian University of Technology Fiber Optics Grating



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A number of devices have been designed and demonstrated for in-fiber optical signal processing. In this Special Issue, all-optical arbitrary-order Hilbert transformers have been proposed and designed ...



This study presents an automated paradigm for assembling high-density fiber Bragg sensor arrays on complex surfaces. The framework ensures signal fidelity and structural integrity, enabling ...



A wavelength division multiplexed (WDM) optical data transmission system based on fiber Bragg gratings can be developed using the simulation model's precise and accurate results.



The ability to inscribe intracore Bragg gratings in these photosensitive fibers has revolutionized the field of telecommunications and optical fiber based sensor technology.



Results gathered in this research propose high-efficiency FBG grating apodizations, which can be further physically realized for optical sensor networks and long-distance (at least 40 km) monitoring ...



Abstract Most optical sensors on the market are optical fiber Bragg grating (FBG) sensors with low reflectivity (typically 7-40%) and low side-lobe suppression (SLS) ratio (typically $SLS < 15$ dB), which ...



A Guest Lecture "Why are we still far from safe and secure autonomous vehicles?" by Paulo Esteves-Veríssimo. 13. May. 15.05. 2026.



We present a mode scrambler design based on long-period fiber Bragg gratings for links employing graded-index transmission fibers with $D = 12$ guided spatial and polarization modes.



Intrinsic optical fiber sensors are classified into macrobending and microbending sensors, Bragg grating sensors fiber (FBG), as well as Rayleigh, Raman, and Brillouin scattering based sensors.



Mathematical models for the realisation, characterization, and simulation of fiber Bragg gratings (FBGs) are required to design gratings for various purposes. In this article, a review of the ...

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