

Abstracts

Microwave Optical Filters Using In-Fiber Bragg Grating Arrays

D.B. Hunter and R.A. Minasian. "Microwave Optical Filters Using In-Fiber Bragg Grating Arrays." 1996 Microwave and Guided Wave Letters 6.2 (Feb. 1996 [MGWL]): 103-105.

A novel multitap optical transversal signal processor based on wavelength multiplexed Bragg grating arrays is presented. This structure enables the realization of a large number of taps for obtaining sharp bandpass filtering with high resolution and also enables arbitrary tap weight profiles to be obtained. Results on a 4-GHz, 29-tap filter demonstrates a sharp bandpass filter response, and windowing techniques on the tap profiles are demonstrated to enhance the sidelobe suppression characteristics.

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