

Abstracts

Range demonstration of an ultra-wideband, continuous, time steered array using a fiber-optic, cascaded grating prism

J.B. Medberry, P.D. Biernacki and P.J. Matthews. "Range demonstration of an ultra-wideband, continuous, time steered array using a fiber-optic, cascaded grating prism." 2000 MTT-S International Microwave Symposium Digest 00.1 (2000 Vol. 1 [MWSYM]): 597-600.

We demonstrate an ultra-wideband fiber optic true time-delay receive beamformer using a chirped grating architecture of identical, cascaded gratings provided continuous, time-delay of up to 2.4 ns. The beamformer system was built using commercially available components, and is capable of continuous tuning over $[\text{pm}]/60$ deg, with an instantaneous bandwidth of 14 GHz.

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