Abstracts

Long Microwave Delay Fiber Optic Link for Radar Testing

I.L. Newberg, C.M. Gee, G.D. Thurmond and H.W. Yen. "Long Microwave Delay Fiber Optic Link for Radar Testing." 1989 MTT-S International Microwave Symposium Digest 89.2 (1989 Vol. II [MWSYM]): 693-696.

A unique application of a long fiber optic delay line as a radar repeater to improve radar testing capabilities is described. Using a 31.6 kilometer long experimental externally modulated fiber optic link with a DFB laser, we demonstrated the first known generation of 152 microsecond delayed ideal target at X-band (10 GHz) frequencies having the phase stability and signal-to-noise ratio (SNR) needed for testing modern high resolution Doppler radars.

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