# Abstracts

## Long Microwave Delay Fiber-Optic Link for Radar Testing (Short Papers)

*I.L. Newberg, C.M. Gee, G.D. Thurmond and H.W. Yen. "Long Microwave Delay Fiber-Optic Link for Radar Testing (Short Papers)." 1990 Transactions on Microwave Theory and Techniques 38.5 (May 1990 [T-MTT] (Special Issue on Applications of Lightwave Technology to Microwave Devices, Circuits, and Systems)): 664-666.*

A long fiber-optic delay line is used as a radar repeater to improve radar testing capabilities. The first known generation of 152 µs 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 is demonstrated with a 31.6 km experimental externally modulated fiber-optic link with a distributed-feedback (DFB) laser.

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