Abstracts

Acoustooptically Controlled True Time Delays: Experimental Results

W.D. Jemison, T. Yost and P.R. Herczfeld. "Acoustooptically Controlled True Time Delays: Experimental Results." 1996 Microwave and Guided Wave Letters 6.8 (Aug. 1996 [MGWL]): 283-285.

A novel microwave true time delay system that uses high-speed optical intensity modulation in conjunction with acoustooptic deflection to address discrete fiber-optic delay lines has been proposed and analyzed. This letter presents experimental results that demonstrate this time delay technique using a typical pulse modulated radar waveform. Ultimately, this technique could be implemented in an integrated optics configuration to provide a small, lightweight, and high-performance time delay unit for modern phased array systems.

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