

Abstracts

True Time-Delay Fiber-Optic Control of a Phased-Array Transmitter with Three-Octave Bandwidth

R.D. Esman, M.Y. Frankel and M.G. Parent. "True Time-Delay Fiber-Optic Control of a Phased-Array Transmitter with Three-Octave Bandwidth." 1995 MTT-S International Microwave Symposium Digest 95.3 (1995 Vol. III [MWSYM]): 1111-1114.

We demonstrate a true time-delay fiber-optically controlled phased-array transmitter with eight broadband spiral elements in a sparsely-populated array. The transmitter band-width is microwave-component limited to 2-18 GHz frequency range. The transmitter shows plus/minus 50-degree azimuth steering with no observed squint over a complete frequency range.

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