

Abstracts

Two-Dimensional Fiber-Optic Control of a True Time-Steered Array Transmitter (1996 Vol. III [MWSYM])

M.Y. Frankel, P.J. Matthews and R.D. Esman. "Two-Dimensional Fiber-Optic Control of a True Time-Steered Array Transmitter (1996 Vol. III [MWSYM])." 1996 MTT-S International Microwave Symposium Digest 96.3 (1996 Vol. III [MWSYM]): 1577-1579.

We report a first demonstration of a transmit array with fiber-optic control for independent two-dimensional true time-delay steering. The 4x4 array consists of flared-notch elements and shows $\pm 30^\circ$ azimuth and $\pm 30^\circ$ elevation steering with no observed squint over the microwave component-limited bandwidth of 6-18 GHz.

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