Abstracts

Demonstration of a reconfigurable beamformer for simplified 2-D time-steered arrays

D.A. Tulchinsky and P.J. Matthews. "Demonstration of a reconfigurable beamformer for simplified 2-D time-steered arrays." 2000 MTT-S International Microwave Symposium Digest 00.2 (2000 Vol. II [MWSYM]): 839-842.

We present the first demonstration of a 2-D, true-time delay, transmit beamformer based on a novel technique that dynamically maps a 1-D beamformer's output onto the input plane of an antenna array producing 2-D steering. This significantly reduces system complexity. The reconfigurable beamformer exhibits squint-free, /spl plusmn/70/spl deg/ azimuth and elevation steering over 4-20 GHz.

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