Abstracts

Photonic true-time delay beamformer for broadband wireless access networks at 40 GHz band

B. Vidal, D. Madrid, J.L. Corral, V. Polo, A. Martinez, J.H. den Besten, F. Soares, J. Marti and M.K. Smit. "Photonic true-time delay beamformer for broadband wireless access networks at 40 GHz band." 2002 MTT-S International Microwave Symposium Digest 02.3 (2002 Vol. III [MWSYM]): 1949-1952 vol.3.

The design parameters, sensitivity analysis and time delay measurements of a photonic true-time delay beamformer for broadband adaptive wireless access networks in the 40 GHz band are presented. The beamforming is achieved by using a multiwavelength laser in combination with a digital delay line based on optical switches and dispersive fibers.

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