

Abstracts

A four channel angle of arrival detector using optical downconversion

P.D. Biernacki, R. Madara, L.T. Nichols, A. Ward and P.J. Mathews. "A four channel angle of arrival detector using optical downconversion." 1999 MTT-S International Microwave Symposium Digest 99.3 (1999 Vol. III [MWSYM]): 885-888 vol.3.

A fiber-optic system for microwave angle of arrival measurements is demonstrated in an anechoic chamber for the first time. The system consists of a four-channel optical downconverter capable of processing received signals from 2-18 GHz. Direction resolution is determined by the antenna spacing, and at 10 GHz is spatially better than 0.1.

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