Abstracts

Microwave phase conjugation using optically interconnected phased arrays

Yian Chang, H.R. Fetterman, I.L. Newberg and S.K. Panaretos. "Microwave phase conjugation using optically interconnected phased arrays." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1387-1390.

A new technique has been developed to achieve phase conjugation in the microwave and millimeter wave regime. Using optically interconnected microwave mixing circuits in conjunction with one-dimensional array antennas, two-dimensional free space phase conjugation at 10.24 GHz has been observed and verified by directly measuring the electric field amplitude and phase distribution under various conditions.

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