

Abstracts

Optically controlled serially fed phased array radar

Yian Chang, H.R. Fetterman, B. Tsap, A.F.J. Levi, D.A. Cohen and I.L. Newberg. "Optically controlled serially fed phased array radar." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1367-1370.

We have developed and tested a new optically controlled serially fed system suitable for phased array radar applications. This system uses a serial-feed concept that represents a new departure, in radar applications, that will yield a major simplification in both optical and microwave components. Unlike many systems, which use a parallel approach, our system with both phase and true time delays requires but a single tunable laser, modulator and time delay element.

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