

Abstracts

Acousto-Optic Control of MMIC T/R Modules for Phased Array Beamsteering

W.D. Jemison and P.R. Herczfeld. "Acousto-Optic Control of MMIC T/R Modules for Phased Array Beamsteering." 1993 MTT-S International Microwave Symposium Digest 93.2 (1993 Vol. II [MWSYM]): 1051-1054.

A novel beamsteering technique is presented which utilizes parallel optical signal processing within an acousto-optic (AO) cell to distribute phase and/or gain control signals to MMIC T/R modules which utilize digital phase shifters and/or gain controllers. An overview of the basic operating principles are presented along with experimental results which validate the technique.

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