

# Abstracts

## Active Antenna Array with Optical Interaction for Application in Radar System

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*S.T. Chew, D.T.K. Tong, M.C. Wu and T. Itoh. "Active Antenna Array with Optical Interaction for Application in Radar System." 1995 MTT-S International Microwave Symposium Digest 95.3 (1995 Vol. III [MWSYM]): 1221-1224.*

An active antenna array system, capable of switching between sum and difference patterns for radar applications, is explored. The desired phase relationship amongst antenna elements is synthesized via injection locking. Optical reference signal is transmitted from remote controller through optical fiber link. Measured patterns agree with theoretical results.

 [Return to main document.](#)