

# Abstracts

## Antenna Array for Limited Scan Applications

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*R.A. Stern and J. Borowick. "Antenna Array for Limited Scan Applications." 1976 MTT-S International Microwave Symposium Digest of Technical Papers 76.1 (1976 [MWSYM]): 341-343.*

An S-band line source antenna which could become the basis for a lightweight, compact, low-cost, phased array is described. The line source is a series fed array of radiating slots periodically situated in the side wall of an S-band waveguide section. The unit, which uses nonreciprocal latching ferrite phase shifters between adjacent slots, is capable of switching beam position in less than 10  $\mu$ sec and is designed to operate at peak power levels  $> 3\text{Kw}$ .

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