

Abstracts

A 2x2 Beam-Switching Active Antenna Array

S.T. Chew and T. Itoh. "A 2x2 Beam-Switching Active Antenna Array." 1995 MTT-S International Microwave Symposium Digest 95.2 (1995 Vol. II [MWSYM]): 925-928.

An electronic beam-switching active antenna array is designed. The sum and difference patterns can be switched bi-directionally without additional switching devices. The required phase relationship is obtained through injection-locking. The transmitted power is combined quasi-optically. The measured patterns are in agreement with that of theory.

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