

Abstracts

Beam Steering Antenna Control Technique

A.R. Skatvold, Jr.. "Beam Steering Antenna Control Technique." 1981 MTT-S International Microwave Symposium Digest 81.1 (1981 [MWSYM]): 422-427.

A technique which reduces the requirement for constructing high accuracy phase shifters for steering the main beam in a small (less than 20 elements) linear antenna array is described. The key hardware components are the phase detectors which monitor the phase difference between adjacent radiating elements and a microcomputer to read the phase differences and adjust phase shifters to obtain the desired antenna performance. This closed loop technique will also provide a means for future investigations to verify theoretical versus experimental phase distributions and other element effects in small antenna arrays.

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