

Abstracts

Frequency Controlled Antenna Beam Steering

K. Aamo. "Frequency Controlled Antenna Beam Steering." 1994 MTT-S International Microwave Symposium Digest 94.3 (1994 Vol. III [MWSYM]): 1549-1552.

This paper describes and confirms by measurements the principle of operation of a new patent for beam steering of array antennas. The method is particularly suitable when quick continuous beam control is needed. The patent should have the potential to allow simple technical solutions and cost-effective design and manufacturing. This is due to the fact that phase shifters - with their complex control circuitry - do not enter into the concept, and the modular structure - with equal feed circuits for each antenna element - opens for use of mass-produced HMICs.

Verification measurements are shown for a transmit network in one dimension, but the method may just as well be applied in receiving mode and for two-dimensional arrays.

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