Abstracts

Phase Control of a Micropatch Antenna Element Designed for Monolithic Phased Arrays

R.M. Hsu and M.H. Thursby. "Phase Control of a Micropatch Antenna Element Designed for Monolithic Phased Arrays." 1995 MTT-S International Microwave Symposium Digest 95.3 (1995 Vol. III [MWSYM]): 1507-1510.

Our previous experimental work in the phase controlled micropatch antenna element has led us to pursue further the design and fabrication of an antenna element with greater phase shifting capability. Computer analysis of an antenna element with a new loading structure is described. Transmission phase shifts of up to 36 degrees in the model have been seen. Variations in the phase angle of the surface current with respect to the control capacitance are shown. Variations in the amplitude of the electric field measured in the far field region on bore sight are also shown.

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