Abstracts

Application of Perturbation Theory to Toroidal Phase Shifters

B. Lax and J. Pehowich. "Application of Perturbation Theory to Toroidal Phase Shifters." 1991 MTT-S International Microwave Symposium Digest 91.3 (1991 Vol. III [MWSYM]): 949-951.

A perturbation treatment provides a quantitative solution for inhomogeneous ferrite waveguides structures. Theory and experiments for the differential phase shift in single and double toroidal phase shifters agree within 5% over a broadband. Treatment of higher order modes, impedances and extension to other devices are outlined.

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