

Abstracts

An Improved Multimode Small Aperture/Obstacle Theory

M. Guglielmi and A.A. Oliner. "An Improved Multimode Small Aperture/Obstacle Theory." 1987 MTT-S International Microwave Symposium Digest 87.2 (1987 Vol. II [MWSYM]): 781-784.

We present a new and improved theory for small apertures and obstacles in multimode waveguide, and we show that for transverse discontinuities the resulting equivalent network differs from that obtained from earlier theory by simple added series or shunt elements. That simple network modification, however, yields greatly improved accuracy, as demonstrated in a specific example.

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