

Abstracts

A Novel Design to Reduce Losses at Dielectric Waveguide Discontinuities

E.-B. El-Sharawy and P.A. Tirkas. "A Novel Design to Reduce Losses at Dielectric Waveguide Discontinuities." 1995 MTT-S International Microwave Symposium Digest 95.2 (1995 Vol. II [MWSYM]): 841-844.

A novel approach to reduce losses of dielectric waveguide bends and junctions is examined in this paper. Ceramic material is added at the bend or the junction. The ceramic's dielectric constant, its shape and size, and position relative to the bend, are several parameters that can be varied to minimize the losses at the junction. Finite-difference time-domain analysis of a representative case is presented.

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