Abstracts

A Numerical Method for the Solution of Junction of Cylindrical Waveguides

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A numerical method for the junction of two cylindrical waveguides is developed by constructing a positive definite function from the boundary conditions and minimizing it with respect to the modal amplitudes. The junction of two rectangular waveguides is treated with mode and current probe excitations. Many types of diaphragms and junctions that are not available in the literature are treated. Of special interest is the case of a current element across the gap in a thin metallic post.

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