

Abstracts

Determination of the Scattering Matrix of Ring-Loaded Corrugated Waveguide Mode Converters (Short Papers)

L.C. da Silva. "Determination of the Scattering Matrix of Ring-Loaded Corrugated Waveguide Mode Converters (Short Papers)." 1989 Transactions on Microwave Theory and Techniques 37.3 (Mar. 1989 [T-MTT]): 646-649.

A previously developed method for the determination of the scattering matrix of cylindrical waveguide mode converters, which is based on the representation of the fields inside the corrugations by a small number of radial modes, is extended to mode converters with ring-loaded corrugations. The method, besides being accurate, reduces the computer time necessary for the computations.

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