Abstracts

Scattering by Material and Conducting Bodies Inside Waveguides, Part I: Theoretical Formulations

A.S. Omar and K. Schunemann. "Scattering by Material and Conducting Bodies Inside Waveguides, Part I: Theoretical Formulations." 1986 Transactions on Microwave Theory and Techniques 34.2 (Feb. 1986 [T-MTT]): 266-272.

A general theoretical formulation of the problem of scattering by material and conducting bodies inside homogeneously filled waveguides is presented. It is based on a reformulation of the existing techniques for free-space scattering in order to adapt them for scattering inside waveguides. This gives rise to two basic alternatives. The first is the volume integral equation formulation (VIEF) and the second is the surface integral equation formulation (SIEF).

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