Abstracts

Multimode Network Representation of Multiple Inductive and Capacitive Obstacles in Parallel Plate Waveguides

M. Guglielmi and G. Gheri. "Multimode Network Representation of Multiple Inductive and Capacitive Obstacles in Parallel Plate Waveguides." 1994 Transactions on Microwave Theory and Techniques 42.6 (Jun. 1994 [T-MTT]): 1046-1051.

In this paper the multimode network formulation is used to characterize a multiple obstacle or aperture discontinuity in parallel plate waveguide. The procedure leads to a frequency-independent integral equation. This equation is solved numerically by using the Method of Moments, allowing for the implementation of a very general and efficient code. The frequency-independent integral equation formulation and its numerical solution are first outlined. Then, we discuss the convergency properties of the procedure, and compare its results with other theoretical results available.

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