Abstracts

Scattering properties of asymmetric rectangular iris in a circular waveguide using edge-conditioned basis functions

T. Lenadan, S. Amari, R. Vahldieck and J. Bornemann. "Scattering properties of asymmetric rectangular iris in a circular waveguide using edge-conditioned basis functions." 1997 MTT-S International Microwave Symposium Digest 1. (1997 Vol. I [MWSYM]): 207-210.

The scattering properties of asymmetric rectangular irises in circular waveguides are accurately determined from an integral equation formulation using basis functions which include the edge conditions. The inclusion of the edge conditions results in a reduction of the size of the matrix as compared to the standard mode-matching technique. Numerical results are presented and compared with previously published data and measurements to demonstrate the accuracy of the approach.

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