

Abstracts

Vortex Formation Near an Iris in a Rectangular Waveguide

R.W. Ziolkowski and J.B. Grant. "Vortex Formation Near an Iris in a Rectangular Waveguide." 1986 Transactions on Microwave Theory and Techniques 34.11 (Nov. 1986 [T-MTT]): 1164-1182.

The generalized dual-series approach to the capacitive and inductive iris waveguide problems is presented. Currents on the iris and plots of the fields and power flow in the vicinity of the iris are given for the capacitive iris case. It is found that vortices form in the iris region when higher order scattered modes are present. The formation of these vortices and their properties will be described in this paper.

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