

Abstracts

Rigorous Analysis of Iris Coupling Problem in Waveguide (Short Papers)

R. Yang and A.S. Omar. "Rigorous Analysis of Iris Coupling Problem in Waveguide (Short Papers)." 1993 *Transactions on Microwave Theory and Techniques* 41.2 (Feb. 1993 [T-MTT]): 349-352.

In this short paper we present a new class of simple basis functions which explicitly take the edge conditions into consideration for solving waveguide iris coupling problem by using moment method. The good agreement between the results for some special cases for both parallel-plate waveguide and rectangular waveguide from the present work and that from previous publications demonstrate the correctness of the choice of the basis functions. Compared with previously published basis functions the basis functions introduced here are characterized by their simple form, generality and still with a similar fast convergence behavior.

[Return to main document.](#)