

Abstracts

Fast Evaluation of Modal Coupling Coefficients of Waveguide Step Discontinuities

P. Arcioni. "Fast Evaluation of Modal Coupling Coefficients of Waveguide Step Discontinuities." 1996 *Microwave and Guided Wave Letters* 6.6 (Jun. 1996 [MGWL]): 232-234.

This letter presents a fast method for the determination of a large number of coupling coefficients of a step discontinuity between a rectangular/circular waveguide and a smaller one of arbitrary shape. The mode spectrum of the small waveguide is calculated by a fast algorithm-presented some years ago-and the coupling coefficients are obtained at almost no extra cost by post-processing some of the matrices already used for finding the modes. Tens of modes and hundreds of coefficients are calculated in a few seconds on an ordinary workstation.

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