

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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