Abstracts

A Multistrip Moment Method Technique and its Application to the Post Problem in a Circular Waveguide (Short Papers)

X.-H. Zhu, D.-Z. Chen and S.-J. Wang. "A Multistrip Moment Method Technique and its Application to the Post Problem in a Circular Waveguide (Short Papers)." 1991 Transactions on Microwave Theory and Techniques 39.10 (Oct. 1991 [T-MTT]): 1762-1766.

A moment method technique for solving obstacle problems in a waveguide is presented. Instead of the procedure using a multifilament current representation, which leads to a slowly converging series, a multistrip representation of the current is proposed. In the procedure, the true currents on obstacle surfaces are replaced by equivalent planar currents in a number of waveguide cross sections inside the obstacle. The technique is applied to a pair of metallic posts in the TE/sub 11/-mode circular waveguide. Numerical results are compared with experimental data.

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