

Abstracts

Wide-Band Matching of Lossless Waveguide Two-Ports

D. Kajfez. "Wide-Band Matching of Lossless Waveguide Two-Ports." 1962 Transactions on Microwave Theory and Techniques 10.3 (May 1962 [T-MTT]): 174-178.

A new procedure of matching is presented, based in the equations which transform the output reflection coefficient of a lossless two-port network into the input reflection coefficient. The parameters of the equations are the residual reflection coefficients which can be easily measured. The optimum reflection coefficients which have the minimum frequency variation are computed for the specific case when the frequency variation of the residual reflection coefficients can be approximated by a circular arc in the Smith diagram. An illustrative example is given to explain the determination of the position and the size of the inductive obstacles that match a waveguide two-port structure within a wide frequency band.

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