Abstracts

On the Performance of the Least Squares Method for Waveguide Junctions and Discontinuities (Short Papers)

R. Jansen. "On the Performance of the Least Squares Method for Waveguide Junctions and Discontinuities (Short Papers)." 1975 Transactions on Microwave Theory and Techniques 23.5 (May 1975 [T-MTT]): 434-436.

The high computational expenditure of the least squares boundary residual method restricts its application to certain problems. It is therefore necessary to utilize the inherent simplicity of special cases together with convergence-optimization criteria in order to reduce computational time and storage requirements. The problem of the coaxial-to-circular waveguide junction is presented as an illustrative example of how this is performed. A selection criterion is also suggested to determine the optimum weighting factor.

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