

Abstracts

An Optimization Technique for Lumped-Distributed Two Ports

K.W. Iobst and K.A. Zaki. "An Optimization Technique for Lumped-Distributed Two Ports." 1982 Transactions on Microwave Theory and Techniques 30.12 (Dec. 1982 [T-MTT] (1982 Symposium Issue)): 2167-2171.

A frequency domain direct efficient analysis and an optimization technique of a large class of lumped-distributed networks containing active elements are presented. Sensitivity and Hessian matrix calculations are performed using truncated Taylor series expansion of two-port parameters of subnetworks. An interactive computer program was developed to demonstrate the application of the method. Examples of network optimization are included to illustrate the powerfulness of the technique.

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