

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 MTT-S International Microwave Symposium Digest 82.1 (1982 [MWSYM]): 456-458.

A frequency domain direct efficient analysis and optimization technique of a large class of lumped-distributed networks containing active elements is 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. An example of network optimization is included to illustrate the powerfulness of the technique.

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