

Abstracts

An aggressive approach to parameter extraction

M.H. Bakr, J.W. Bandler and N. Georgieva. "An aggressive approach to parameter extraction." 1999 MTT-S International Microwave Symposium Digest 99.1 (1999 Vol. 1 [MWSYM]): 261-264 vol. 1.

A novel Aggressive Parameter Extraction (APE) algorithm is presented. Our APE algorithm addresses the optimal selection of parameter perturbations used to increase trust in parameter extraction uniqueness. We establish an appropriate criterion for the generation of these perturbations. The APE algorithm classifies possible solutions for the parameter extraction problem. Two different approaches for obtaining subsequent perturbations are utilized based on a classification of the extracted parameters. The APE algorithm is successfully demonstrated in parameter extraction of an HTS filter model.

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