Abstracts

Microwave Structure Characterization by a Combination of FDTD and System Identification Methods

B. Houshmand, T.W. Huaug and T. Itoh. "Microwave Structure Characterization by a Combination of FDTD and System Identification Methods." 1993 Microwave and Guided Wave Letters 3.8 (Aug. 1993 [MGWL]): 262-264.

Microwave structure characterization is achieved by application of the system identification (SI) technique to the finite-difference time-domain algorithm (FDTD). The parameters of a deterministic auto-regressive moving-average model (ARMA) are computed recursively such that the model output matches the FDTD simulation. The ARMA model parameter convergence is rapid, and provides savings in the computation time.

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