

Abstracts

A new approach to the optimization of passive microwave structures on the basis of a FDTD-method

U. Effing and I. Wolff. "A new approach to the optimization of passive microwave structures on the basis of a FDTD-method." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1787-1790.

A new approach to the optimization of passive microwave structures on the basis of a FDTD-field simulator is presented. The method is suitable for reducing the number of time consuming numerical FDTD-field simulations in the automatic optimization process. The results of a minimized number of field simulations are projected on IIR filters. The pole and zero positions are parameter vector dependent curves or fields in the z-domain.

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