Abstracts

A Generalized Electromagnetic Optimization Procedure for the Design of Complex Interacting Structures in Hybrid and Monolithic Microwave Integrated Circuits

M.A. Schamberger and A.K. Sharma. "A Generalized Electromagnetic Optimization Procedure for the Design of Complex Interacting Structures in Hybrid and Monolithic Microwave Integrated Circuits." 1995 MTT-S International Microwave Symposium Digest 95.3 (1995 Vol. III [MWSYM]): 1191-1194.

An adaptive electromagnetic optimization procedure to facilitate field-theoretic design of hybrid and monolithic integrated circuits is presented. This approach provides full-wave characterization of complex MIC and MMIC geometries by including various effects such as coupling, spurious radiation, surface wave modes, and interactions with package modes. Application of this procedure utilizing commercially available electromagnetic simulators will be presented to demonstrate its versatility.

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