

Abstracts

EM-ANN Models for via Interconnects in Microstrip Circuits

P. Watson and K.C. Gupta. "EM-ANN Models for via Interconnects in Microstrip Circuits." 1996 MTT-S International Microwave Symposium Digest 96.3 (1996 Vol. III [MWSYM]): 1819-1822.

A novel approach for accurate and efficient modeling of MMIC components by using electromagnetically-trained Artificial Neural Network (EM-ANN) software modules is presented. The approach has been verified by developing models for microstrip via and stripline-to-stripline interconnects in multilayer circuits. Implementation of the approach is demonstrated by integrating the EM-ANN models in a commercial microwave circuit simulator.

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