Abstracts

A new macromodeling approach for nonlinear microwave circuits based on recurrent neural networks (2000 Vol. II [MWSYM])

Y.H. Fang, M.C.E. Yagoub, F. Wang and Q.J. Zhang. "A new macromodeling approach for nonlinear microwave circuits based on recurrent neural networks (2000 Vol. II [MWSYM])." 2000 MTT-S International Microwave Symposium Digest 00.2 (2000 Vol. II [MWSYM]): 883-886.

For the first time, recurrent neural networks (RNN) are trained to learn the dynamic responses of nonlinear microwave circuits. Once trained, the RNN macromodel provides fast prediction of the full analog behavior of the original circuit and can be used for high level simulation and optimization.

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