Abstracts

Neural space mapping EM optimization of microwave structures

M.H. Bakr, J.W. Bandler, M.A. Ismail, J.E. Rayas-Sanchez and Q.J. Zhang. "Neural space mapping EM optimization of microwave structures." 2000 MTT-S International Microwave Symposium Digest 00.2 (2000 Vol. II [MWSYM]): 879-882.

We propose, for the first time, Neural Space Mapping optimization for EM-based design. It exploits our Space Mapping-based neuromodeling techniques, avoiding troublesome parameter extraction. Simple neuromodels are trained, without testing points, during each optimization iteration. Coarse model sensitivities are exploited to select suitable fine model base points for the initial mapping.

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