

Abstracts

Space mapping optimization of microwave circuits exploiting surrogate models

M.H. Bakr, J.W. Bandler, K. Madsen, J.E. Rayas-Sanchez and J. Sondergaard. "Space mapping optimization of microwave circuits exploiting surrogate models." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1785-1788.

A powerful new Aggressive Space Mapping (ASM) optimization algorithm is presented. It draws upon recent developments in both surrogate-based optimization and microwave device neuromodeling. Our surrogate formulation (new to microwave engineering) exploits, in a novel way, a linear frequency-space mapping. This is a powerful approach to severe response misalignments.

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