Abstracts

Fully Automated Space Mapping Optimization of 3D Structures

J.W. Bandler, R.M. Biernacki and S.H. Chen. "Fully Automated Space Mapping Optimization of 3D Structures." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 753-756.

We present new results of fully automating the aggressive Space Mapping™ (SM) strategy for electromagnetic optimization. The generic SM update loop and the model-specific parameter extraction loop are automated using a two-level Datapipe architecture. We apply the automated SM strategy to the optimization of waveguide transformers. We introduce a multi-point parameter extraction procedure for sharpening the solution uniqueness and improving the SM convergence. We present, for the first time, automated electromagnetic optimization utilizing the commercial 3D structure simulator HFSS.

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