

Abstracts

Gradient Quadratic Approximation Scheme for Yield-Driven Design

J.W. Bandler, R.M. Biernacki, S.H. Chen, J. Song, S. Ye and Q.J. Zhang. "Gradient Quadratic Approximation Scheme for Yield-Driven Design." 1991 MTT-S International Microwave Symposium Digest 91.3 (1991 Vol. III [MWSYM]): 1197-1200.

A new approach to modeling of circuit responses and gradients is proposed. We exploit multidimensional quadratic approximation and take full advantage of available gradient information. Efficiency and accuracy are demonstrated by gradient-based yield optimization of a filter and an MMIC amplifier.

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