

# Abstracts

## Efficient Statistical Analysis of Microwave Circuit Performance Using Design of Experiments

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*K.L. Virga and R.J. Engelhardt, Jr.. "Efficient Statistical Analysis of Microwave Circuit Performance Using Design of Experiments." 1993 MTT-S International Microwave Symposium Digest 93.1 (1993 Vol. 1 [MWSYM]): 123-126.*

Variations of circuit dimensions and material parameters about their nominal values result in microwave circuits that do not perform as expected. This paper describes how the method of Design of Experiments (DOE) maybe used with circuit simulations to statistically characterize the effects that variations of these circuit factors have on circuit performance. The results of a study that uses DOE for the reflection coefficient performance of an antenna radiator circuit are presented.

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