Abstracts

Analysis of mm-wave nonlinear circuits by combining genetic algorithm and harmonic balance technique

M. Bozzi, L. Perregrini and A.R. Ruiz Laso. "Analysis of mm-wave nonlinear circuits by combining genetic algorithm and harmonic balance technique." 2000 MTT-S International Microwave Symposium Digest 00.1 (2000 Vol. I [MWSYM]): 421-424.

This paper presents a robust method for the analysis of nonlinear circuits, which are derived from the modeling of frequency multipliers operating in the mm-wave range. This method is based on the use of the genetic algorithm in conjunction with a standard harmonic balance technique. It combines the reliability of the evolutionary approach with the rapidity of the harmonic balance technique. Examples of analysis of mm-wave frequency multipliers are reported.

❑ Return to main document.