

# Abstracts

## A General-Purpose Program for Nonlinear Microwave Circuit Design

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*V. Rizzoli, A. Lipparini and E. Marazzi. "A General-Purpose Program for Nonlinear Microwave Circuit Design." 1983 Transactions on Microwave Theory and Techniques 31.9 (Sep. 1983, Part I [T-MTT]): 762-770.*

The paper describes the basic philosophy and the general structure of a user-oriented program package capable of designing broad classes of nonlinear microwave subsystems. Some of the peculiar aspects of the nonlinear design problem and the computer solutions adopted are discussed in detail. The application to a practical medium-power oscillator shows that the program is numerically efficient and yields well-defined and accurate results. Furthermore it provides full coverage of several aspects of circuit performance that were previously treated by empirical approaches, such as detailed effects of higher harmonics, active device operating temperatures, and circuit regulations.

 [Return to main document.](#)