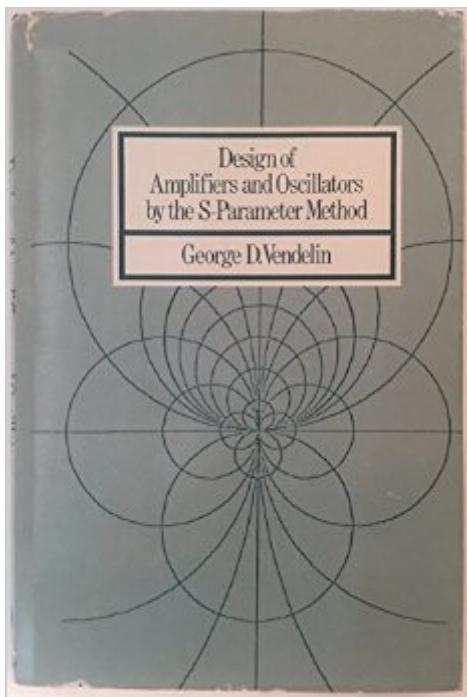


The book was found

# Design Of Amplifiers And Oscillators By The S-parameter Method



## Synopsis

The ultimate handbook on microwave circuit design with CAD. Full of tips and insights from seasoned industry veterans, *Microwave Circuit Design* offers practical, proven advice on improving the design quality of microwave passive and active circuits-while cutting costs and time. Covering all levels of microwave circuit design from the elementary to the very advanced, the book systematically presents computer-aided methods for linear and nonlinear designs used in the design and manufacture of microwave amplifiers, oscillators, and mixers. Using the newest CAD tools, the book shows how to design transistor and diode circuits, and also details CAD's usefulness in microwave integrated circuit (MIC) and monolithic microwave integrated circuit (MMIC) technology. Applications of nonlinear SPICE programs, now available for microwave CAD, are described. State-of-the-art coverage includes microwave transistors (HEMTs, MODFETs, MESFETs, HBTs, and more), high-power amplifier design, oscillator design including feedback topologies, phase noise and examples, and more. The techniques presented are illustrated with several MMIC designs, including a wideband amplifier, a low-noise amplifier, and an MMIC mixer. This unique, one-stop handbook also features a major case study of an actual anticollision radar transceiver, which is compared in detail against CAD predictions; examples of actual circuit designs with photographs of completed circuits; and tables of design formulae. --This text refers to an out of print or unavailable edition of this title.

## Book Information

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## Customer Reviews

Undoubtedly, Microwave Circuit Design is a book of great help for anyone who is directly involved on the high frequency design industry. Containing all you need to know, from basic parameters and concepts to real design tips, Microwave Circuit Design is a book you cannot ignore. Its contents include all the basic transceiver building blocks, for front end and IF stage design.

We used this book as well as Dr. Maas's in grad school. I own both, but through the years this is the more well-thumbed of the two. I think this volume is more oriented toward the circuit designer, while Maas is aimed more toward underlying engineering analysis... but who really needs to worry about arcane non-linear analysis, e.g. Volterra series analysis these days, anyhow? I'd get both if you can, but if not this is \*the one\*.

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