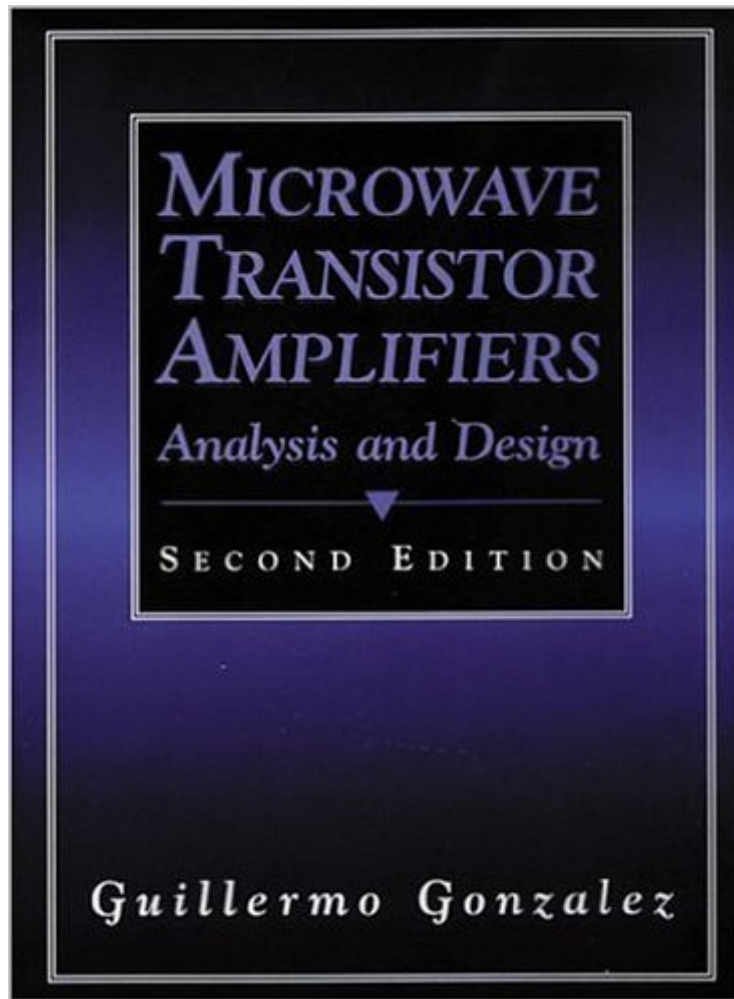


The book was found

# Microwave Transistor Amplifiers: Analysis And Design (2nd Edition)



## Synopsis

A unified presentation of the analysis and design of microwave transistor amplifiers (and oscillators) using scattering parameters techniques. KEY FEATURES: Presents material on: transmission-lines concepts; power waves and generalized scattering parameters; measurements of scattering parameters; bipolar and field-effect transistors; power gain expressions; constant VSWR circles; gain, noise, and VSWR design trade offs; broadband amplifiers, high-power amplifiers; oscillator

## Book Information

Paperback: 506 pages

Publisher: Pearson; 2 edition (August 30, 1996)

Language: English

ISBN-10: 0132543354

ISBN-13: 978-0132543354

Product Dimensions: 5.9 x 1.2 x 9 inches

Shipping Weight: 1.4 pounds (View shipping rates and policies)

Average Customer Review: 4.4 out of 5 stars See all reviews (28 customer reviews)

Best Sellers Rank: #287,253 in Books (See Top 100 in Books) #16 in Books > Engineering & Transportation > Engineering > Telecommunications & Sensors > Microwaves #82 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits > Design #818 in Books > Computers & Technology > Networking & Cloud Computing > Internet, Groupware, & Telecommunications

## Customer Reviews

I am a Principal RF Engineer/ Program Manager, with a graduate degree in the field of RF / Microwave and more than a decade of experience working with it. There are some books which are classics, Pozar for basic microwave, Gerd Kaiser for basic optic fibers, Balanis and K D Prasad for antennas, Matthaei-Young-Jones for filters, Steve Cripps for Power amplifiers and Guillermo Gonzales for low noise amplifiers. This book treats the whole concept of designing low noise amplifiers in a very comprehensive manner. It starts off by describing and establishing a understanding of the basics, such as S parameters, smith charts, etc. It doesn't assume anything, but strives to teach right from the beginning. So it is a great reference book. Then it progressively teaches you the various steps of amplifier design, right from determining the stability considerations, design as per gain, VSWR, noise figure etc. Each successive design is more complex than the previous,

and it is a wonderful experience reading and understanding each and every minute detail about transistors, matching networks, dc bias, etc. It deals with practical transistors and components as used in the industry and it gives thorough equations and design tips for a step by step procedure towards design amelioration. The way you trade off the noise figure for VSWR and gain is a tricky business for LNA's. The way this book describes the method to do so on the smith chart with the Gain, VSWR and Noise figure circles is easy to understand and great to implement. It has become a trend these days to blindly use simulation softwares. After reading this book, you will no longer be dependent on the trial and error method of microwave circuit design.

[Download to continue reading...](#)

Microwave Transistor Amplifiers: Analysis and Design (2nd Edition) Principles of Transistor Circuits, Eighth Edition: Introduction and guide to the design of amplifiers, function generators, receivers and digital circuits Microwave MESFETs and HEMTs (Microwave Library) (Artech House Microwave Library (Hardcover)) Switchmode RF and Microwave Power Amplifiers, Second Edition RF Power Amplifiers for Wireless Communications, Second Edition (Artech House Microwave Library) High Efficiency RF and Microwave Solid State Power Amplifiers Field-Effect Transistor Amp Analysis and Design The Microwave Gourmet Cookbook!: Quick and Easy Microwave Cooking Recipes that will Blow your Mind! (Fast, Quick, and Easy Cooking Recipes and Cooking Tips! Book 1) Microwave Meals (5 in 1): No-Mess Quick and Easy Microwave Recipes, Mug Meals and Mug Desserts to Cook in No Time Low Carb Microwave Cookbook: 40 No-Mess Quick and Easy Recipes Under 300 Cal to Make in 30 Minutes or Less for Busy People. (Low Carb & Microwave Meals) Freeze, Heat and Eat Box Set (5 in 1): Budget-Friendly, Low Carb, Microwave, Dump Freezer Meals for Busy People (Microwave Meals & Recipes) Fundamentals of Microwave Photonics (Wiley Series in Microwave and Optical Engineering) Microwave Mixer Technology and Applications (Artech House Microwave Library (Hardcover)) Microwave Dishes In Minutes: Microwave Is Not Only A Tool To Re-heat Food Handbook of Microwave Integrated Circuits (Artech House Microwave Library) Microwave Tubes (Artech House Microwave Library) Design With Operational Amplifiers And Analog Integrated Circuits (McGraw-Hill Series in Electrical and Computer Engineering) Design with Operational Amplifiers and Analog Integrated Circuits Design of Amplifiers and Oscillators by the S-parameter Method Design of Low-Noise Amplifiers for Ultra-Wideband Communications

[Dmca](#)