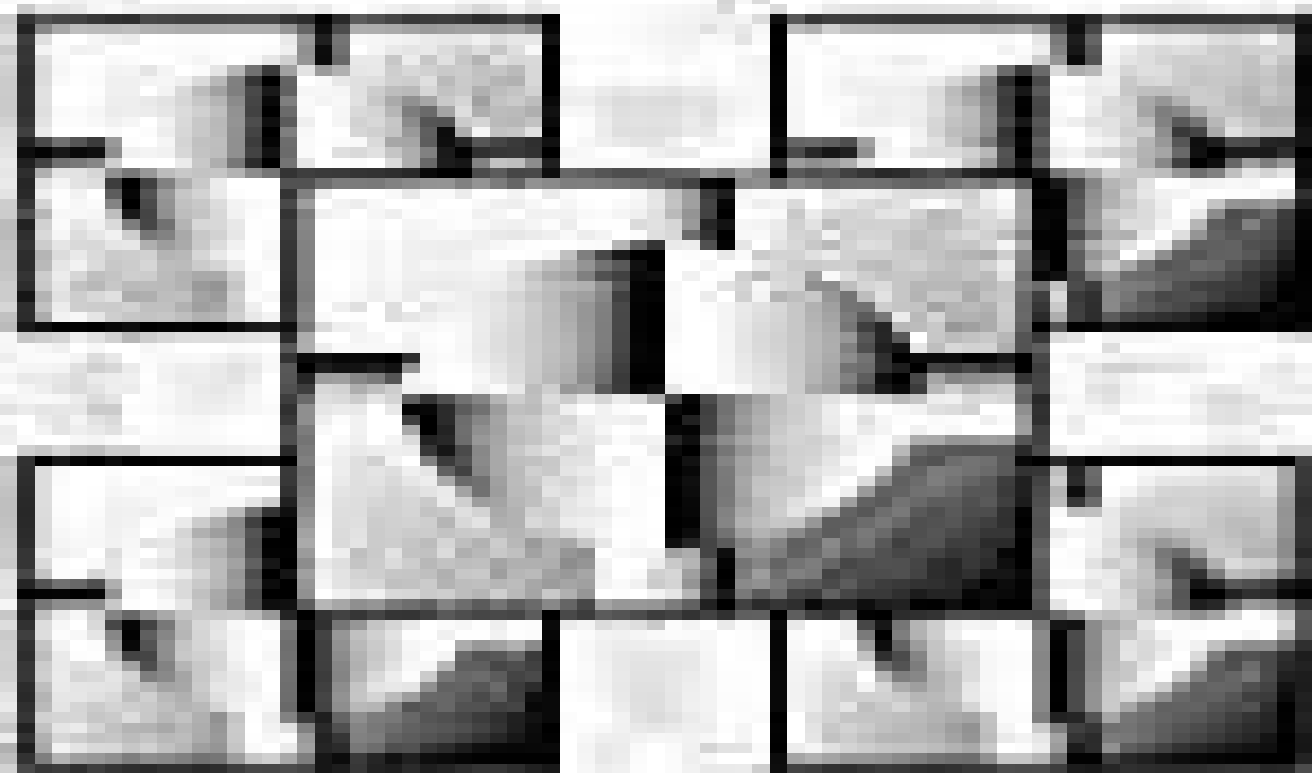


# SPURPLOT

Statistical Regression Plotting Program

Developed by and for the Texas A&M University

Department of Statistics, College Station, Texas



Version 1.0, 1991

# Spurplot Mixer Spuriousresponse Analysis With Tunable Filtering Software And Users Manual

**Pieter L. D. Abrie**



## **Spurplot Mixer Spuriousresponse Analysis With Tunable Filtering Software And Users Manual:**

**Practical RF System Design** William F. Egan, 2004-03-01 The ultimate practical resource for today's RF system design professionals Radio frequency components and circuits form the backbone of today's mobile and satellite communications networks Consequently both practicing and aspiring industry professionals need to be able to solve ever more complex problems of RF design Blending theoretical rigor with a wealth of practical expertise Practical RF System Design addresses a variety of complex real world problems that system engineers are likely to encounter in today's burgeoning communications industry with solutions that are not easily available in the existing literature The author an expert in the field of RF module and system design provides powerful techniques for analyzing real RF systems with emphasis on some that are currently not well understood Combining theoretical results and models with examples he challenges readers to address such practical issues as How standing wave ratio affects system gain How noise on a local oscillator will affect receiver noise figure and desensitization How to determine the dynamic range of a cascade from module specifications How phase noise affects system performance and where it comes from How intermodulation products IMs predictably change with signal amplitude and why they sometimes change differently An essential resource for today's RF system engineers the text covers important topics in the areas of system noise and nonlinearity frequency conversion and phase noise Along with a wealth of practical examples using MATLAB r and Excel spreadsheets are available for download from an FTP Web site to help readers apply the methods outlined in this important resource

**Microwave Radio Transmission Design Guide** Trevor Manning, 1999 This handy reference provides you with expert advice and instruction for the planning and detailed design of microwave radio transmission systems It is a valuable resource if you're designing and planning SDH SONET broadband networks backhaul for mobile radio networks such as GSM transmission links for TETRA networks TV and utility networks and Wireless Local Loop networks Written in an easy to understand style the author provides practical guidelines based on hands on experience Complex mathematics are avoided and fundamental concepts are explained in the context of real world applications to encourage a deeper understanding of microwave radio transmission

**Spurplot** Robert R. Kyle, 1998-01-01 This new graphical analysis software enhances the quality of system designs SPURPLOT helps in the process of selecting a frequency plan mixer and filter criteria necessary for frequency translation It allows for tuning of these parameters according to particular frequency specifications and instant viewing of the spurious frequency results as adjustments are made

**Behavioral Modeling of Nonlinear RF and Microwave Devices** Thomas R. Turlington, 2000 Written by a well known authority in the field this new book is the first to explain behavioral modeling of nonlinear RF and microwave devices and presents a powerful curve fitting technique you can use to accurately describe the behavior and range of microwave components as a function of multiple independent variables This thorough and detailed examination of behavioral modeling is comprehensible and features easily understood mathematical formulas

*Microwave Journal*, 1999      Design of RF and

Microwave Amplifiers and Oscillators Pieter L. D. Abrie, 1999 Achieve first time success designing RF and microwave amplifiers and oscillators using the iterative synthesis techniques provided in this practical resource The book introduces new approaches to help you estimate the 1dB compression point of class A and class B linear circuits initialize the fundamental component voltages and currents in a harmonic balance simulator and more easily generate load pull contours for class A and class B transistors

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