

RF I-V Waveform Measurement and Engineering Systems

- addressing the high power amplifier design challenge

Paul J. Tasker (IEEE MTT-S DML 2008-2010)

Centre for High Frequency engineering, School of Engineering, Cardiff University, Cardiff CF24 3AA, (tasker@cf.ac.uk, Tel: +44 (0)2920874423)

Abstract — This short paper presents an overview of the potential of RF Waveform Measurement and Engineering to support the developments of transistors, circuits and systems that rely on strong non-linear effects. To date these concepts have mainly been focused towards aiding the development of RF Power Amplifiers (RFPAs). This is because the performance of RFPAs both exploits (efficiency) and is limited (linearity) by strongly non-linear effects. RFPAs are a critical component in many systems; e.g. mobile communications, satellite communications and radar systems.

I. INTRODUCTION

RF Power Amplifier (RPA) performance, output power, conversion efficiency and linearity, etc., is influenced by the transistor terminal voltage and current time varying waveforms. Thus *waveform engineering* should be driving the RPA design process at all levels; transistor optimization, circuit design and system requirements. In practical RPA design, waveform engineering is only a guiding principle; its direct application previously hindered by the lack of appropriate RF waveform measurements tools. The past 15 years has seen the maturing of RF voltage and current waveforms measurement systems. Coupling with impedance control hardware also enables experimental control (Engineering) of these terminal RF waveforms during measurements; thus providing a *practical RF Waveform Measurement & Engineering solution*. Application involves either the direct utilization of the measurement system in the design investigation/evaluation loop, or its indirect use by providing CAD accessible datasets or behavioral model parameters.

II. RF WAVEFORM MEASUREMENT

The most utilized microwave measurement tools supporting CAD design measure *s*-parameters, small signal parameters, are only of limited use in non-linear CAD design. Non-linear CAD design must include mixing (intermodulation distortion), compression (harmonic generation), etc. While this information, ideal for system evaluation, is provided by (Vector) Spectrum Analyzer and/or Power Meter; in this form it is again of limited use in non-linear CAD design. This

explains the prevalence of “build and test” in the RPA design cycle.

Initially RF Waveform Measurement capability was realized by integrating sampling scopes within conventional *s*-parameter measurement systems [1]. The Microwave Transition Analyzer (MTA) triggered the realization of standalone RF Waveform Measurement Systems [2]. Figure 1 shows the standard, full two-port, architecture of RF Waveform Measurement Systems, often referred to as a Non-Linear

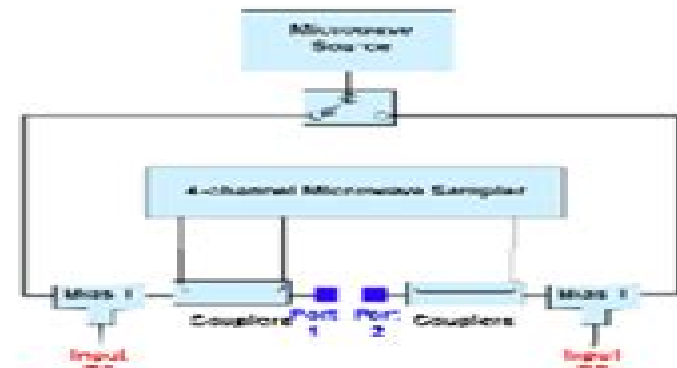


Fig. 1 Basic schematic of an RF Waveform Measurement and Engineering System [3].

Vector Network analyzer (NLVNA) now typically employed [1]. Presently receivers employed include four channel digital sampling scopes (i.e. Tektronix DSA + Meso M20), sampling down converters or 5 channel network analyzers (i.e. Agilent PNA-X). All systems are fully vector calibrated and provide for error

Rf I V Waveform Measurement And Engineering Systems

Jürgen Sachs



Rf I V Waveform Measurement And Engineering Systems:

Modulated Measurement and Engineering Systems for Microwave Power Transistors Muhammad Akmal

Chaudhary,2019-06-15 The complexity requirements of future wireless communication systems now indeed demand a more general theoretically robust design methodology for nonlinear circuits such as the power amplifiers The present design methodology for nonlinear Radio Frequency components and circuits has become a key hindrance in the evaluation development and testing of modern communication systems The fundamental nature of this engineering challenge makes it highly unlikely to be addressed within the competitive Radio Frequency industry with short term profitability time to market and risk aversion considerations The book therefore includes developing advanced waveform measurement setups multi tone measurement techniques characterization and modelling of nonlinear distortion in microwave power transistors and design of high power and spectrum efficient RF power amplifiers for future wireless communication systems Further enlists the key impediments in Power Amplifier design through the application of waveform engineering to embrace simultaneously efficiency and linearity objectives of power amplifier design as well as investigate the most robust and appropriate behavioral model formulation that includes memory effects

Load-Pull Techniques with Applications to Power Amplifier Design

Fadhel M. Ghannouchi,Mohammad S. Hashmi,2012-06-06 This first book on load pull systems is intended for readers with a broad knowledge of high frequency transistor device characterization nonlinear and linear microwave measurements RF power amplifiers and transmitters Load Pull Techniques with Applications to Power Amplifier Design fulfills the demands of users designers and researchers both from industry and academia who have felt the need of a book on this topic It presents a comprehensive reference spanning different load pull measurement systems waveform measurement and engineering systems and associated calibration procedures for accurate large signal characterization Besides this book also provides in depth practical considerations required in the realization and usage of load pull and waveform engineering systems In addition it also provides procedure to design application specific load pull setup and includes several case studies where the user can customize architecture of load pull setups to meet any specific measurement requirements Furthermore the materials covered in this book can be part of a full semester graduate course on microwave device characterization and power amplifier design

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Indexes United States. Naval Air Systems Command, 1974 **IEEE Instrumentation and Measurement Technology Conference Proceedings**, Indoor Geolocation Science and Technology Kaveh Pahlavan, 2022-09-01 Precise and accurate localization is one of the fundamental scientific and engineering technologies needed for the applications enabling the emergence of the Smart World and the Internet of Things IoT Popularity of localization technology began when the GPS became open for commercial applications in early 1990's Since most commercial localization applications are for indoors and GPS does not work indoors the discovery of opportunistic indoor geolocation technologies began in mid 1990's Because of

complexity and diversity of science and technology involved in indoor Geolocation this area has emerged as its own discipline over the past two decades At the time of this writing received signal strength RSS based Wi Fi localization is dominating the commercial market complementing cell tower localization and GPS technologies using the time of arrival TOA technology Wi Fi localization technology takes advantage of the random deployment of Wi Fi devices worldwide to support indoor and urban area localization for hundreds of thousands of applications on smart devices Public safety and military applications demand more precise localization for first responders and military applications deploy specialized infrastructure for more precise indoor geolocation To enhance the performance both industries are examining hybrid localization techniques Hybrid algorithms use a variety of sensors to measure the speed and direction of movement and integrate them with the absolute radio frequency localization Indoor Geolocation Science and Technology is a multidisciplinary book that presents the fundamentals of opportunistic localization and navigation science and technology used in different platforms such as smart devices unmanned ground and flying vehicles and existing cars operating as a part of intelligent transportation systems Material presented in the book are beneficial for the Electrical and Computer Engineering Computer Science Robotics Engineering Biomedical Engineering or other disciplines who are interested in integration of navigation into their multi disciplinary projects The book provides examples with supporting MATLAB codes and hands on projects throughout to improve the ability of the readers to understand and implement variety of algorithms It can be used for both academic education as a textbook with problem sets and projects and the industrial training as a practical reference book for professionals involved in design and performance evaluation The author of this book has pioneering research experience and industrial exposure in design and performance evaluation of indoor geolocation based on empirical measurement and modeling of the behavior of the radio propagation in indoor areas and inside the human body The presentation of the material is based on examples of research and development that his students have performed in his laboratory his teaching experiences as a professor and his experiences as a technical consultant to successful startup companies

Handbook of Ultra-Wideband Short-Range Sensing Jürgen Sachs, 2013-01-15 Ranging from the theoretical basis of UWB sensors via implementation issues to applications this much needed book bridges the gap between designers and applicers working in civil engineering biotechnology medical engineering robotic mechanical engineering safety and homeland security From the contents History Signal and systems in time and frequency domain Propagation of electromagnetic waves in frequency and time domain UWB Principles UWB antennas and applicators Data processing Applications IEEE Instrumentation and Measurement Technology Conference ,1987 **Scientific and Technical Aerospace Reports** ,1979 **Precision Measurement and Calibration: Electricity** United States. National Bureau of Standards,1968 **U.S. Government Research Reports** ,1963 **Technical Abstract Bulletin** , **Microwave Mixer Technology and Applications** Bert Henderson ,Edmar Camargo,2013-08-01 Although microwave mixers play a critical role in wireless communication and other

microwave applications employing frequency conversion circuits engineers find that most books on this subject emphasize theoretical aspects rather than practical applications That s about to change with the forthcoming release of Microwave Mixer Technology and Applications Based on a review of over one thousand patents on mixers and frequency conversion authors Bert Henderson and Edmar Camargo have written a comprehensive book for mixer designers who want solid ideas for solving their own design challenges Many of the important and most interesting patents and related circuits are discussed in the several application oriented chapters In addition important contributions from the technical literature are included to provide a solid theoretical foundation This book contains both introductory and advanced material about active and passive mixers that use bipolar transistor FET or diode switching devices Theory and design details are presented for dozens of important mixer designs with practical application information derived from the authors decades of experience

Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.),1987 **Analog Circuit Design Volume 2** Bob Dobkin,Jim Williams,2012-12-31 Analog circuit and system design today is more essential than ever before With the growth of digital systems wireless communications complex industrial and automotive systems designers are being challenged to develop sophisticated analog solutions This comprehensive source book of circuit design solutions aids engineers with elegant and practical design techniques that focus on common analog challenges The book s in depth application examples provide insight into circuit design and application solutions that you can apply in today s demanding designs This is the companion volume to the successful Analog Circuit Design A Tutorial Guide to Applications and Solutions October 2011 which has sold over 5000 copies in its the first 6 months of since publication It extends the Linear Technology collection of application notes which provides analog experts with a full collection of reference designs and problem solving insights to apply to their own engineering challenges Full support package including online resources LTSpice Contents include more application notes on power management and data conversion and signal conditioning circuit solutions plus an invaluable circuit collection of reference designs *Publications of the National Bureau of Standards, 1986 Catalog* United States. National Bureau of Standards,1987 **Publications of the National Bureau of Standards ... Catalog** United States. National Bureau of Standards,1977

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