

ANALOG SIGNAL
GENERATION FOR
BUILT-IN-SELF-TEST
OF MIXED-SIGNAL
INTEGRATED CIRCUITS

Gordon W. Roberts
Albert K. Lu

Kluwer Academic Publishers

Analog Signal Generation For Built In Self Test Of Mixed Signal Integrated Circuits

Charles E. Stroud



Analog Signal Generation For Built In Self Test Of Mixed Signal Integrated Circuits:

Analog Signal Generation for Built-In-Self-Test of Mixed-Signal Integrated Circuits Gordon W. Roberts, Albert K. Lu, 2012-09-27 Analog Signal Generation for Built In Self Test BIST of Mixed Signal Integrated Circuits is a concise introduction to a powerful new signal generation technique The book begins with a brief introduction to the testing problem and a review of conventional signal generation techniques The book then describes an oversampling based oscillator capable of generating high precision analog tones using a combination of digital logic and D A conversion These concepts are then extended to multi tone testing schemes without introducing a severe hardware penalty The concepts are extended further to encompass piece wise linear waveforms such as square triangular and sawtooth waves Experimental results are presented to verify the ideas in each chapter and finally conclusions are drawn For those readers unfamiliar with delta sigma modulation techniques a brief introduction to this subject is also provided in an appendix The book is ideal for test engineers researchers and circuits designers with an interest in IC testing methods

Analog Signal Generation for Built-In-Self-Test of Mixed-Signal Integrated Circuits Gordon W. Roberts, Albert K. Lu, 2012-12-06 Analog Signal Generation for Built In Self Test BIST of Mixed Signal Integrated Circuits is a concise introduction to a powerful new signal generation technique The book begins with a brief introduction to the testing problem and a review of conventional signal generation techniques The book then describes an oversampling based oscillator capable of generating high precision analog tones using a combination of digital logic and D A conversion These concepts are then extended to multi tone testing schemes without introducing a severe hardware penalty The concepts are extended further to encompass piece wise linear waveforms such as square triangular and sawtooth waves Experimental results are presented to verify the ideas in each chapter and finally conclusions are drawn For those readers unfamiliar with delta sigma modulation techniques a brief introduction to this subject is also provided in an appendix The book is ideal for test engineers researchers and circuits designers with an interest in IC testing methods

Test and Diagnosis of Analogue, Mixed-signal and RF Integrated Circuits Yichuang Sun, 2008-05-30 This book provides a comprehensive discussion of automatic testing diagnosis and tuning of analogue mixed signal and RF integrated circuits and systems in a single source As well as fundamental concepts and techniques the book reports systematically the state of the arts and future research directions of those areas A complete range of circuit components are covered and test issues from the SoC perspective An essential reference for researchers and engineers in mixed signal testing postgraduate and senior undergraduate students

Analog Test Signal Generation Using Periodic $\Sigma\Delta$ -Encoded Data Streams Benoit Dufort, G.W. Roberts, 2012-12-06 Analog Test Signal Generation Using Periodic SigmaDelta Encoded Data Streams presents a new method to generate high quality analog signals with low hardware complexity The theory of periodic SigmaDelta encoded bitstreams is presented along with a set of empirical tables to help select the appropriate parameters of a bitstream An optimization procedure is also outlined to help select a bit sequence with the desired attributes A large

variety of signals can be generated using this approach Silicon implementation issues are discussed with a specific emphasis on area overhead and ease of design One FPGA circuit and three different silicon implementations are presented along with experimental results It is shown that simple designs are capable of generating very high precision signals on chip The technique is further extended to multi bit signal generation where it is shown how to increase the performance of arbitrary waveform generators commonly found in past and present day mixed signal testers No hardware modifications are required only the numbers in memory are changed Three different calibration techniques to reduce the effects of the AWG's non linearities are also introduced together with supporting experimental evidence The main focus of this text is to describe an area efficient technique for analog signal generation using SigmaDelta encoded data stream The main characteristics of the technique are High quality signals SFDR of 110 dB observed Large variety of signals generated Bitstreams easily obtained with a fast optimization program Good frequency resolution compatible with coherent sampling Simple and fast hardware implementation Mostly digital except an easily testable 1 bit DAC and possibly a reconstruction filter Memory already available on chip can be reused reducing area overhead Designs can be incorporated into existing CAD tools High frequency generation

Test and Design-for-Testability in Mixed-Signal Integrated Circuits Jose Luis Huertas Díaz, 2010-02-23

Test and Design for Testability in Mixed Signal Integrated Circuits deals with test and design for test of analog and mixed signal integrated circuits Especially in System on Chip SoC where different technologies are intertwined analog digital sensors RF test is becoming a true bottleneck of present and future IC projects Linking design and test in these heterogeneous systems will have a tremendous impact in terms of test time cost and proficiency Although it is recognized as a key issue for developing complex ICs there is still a lack of structured references presenting the major topics in this area The aim of this book is to present basic concepts and new ideas in a manner understandable for both professionals and students Since this is an active research field a comprehensive state of the art overview is very valuable introducing the main problems as well as the ways of solution that seem promising emphasizing their basis strengths and weaknesses In essence several topics are presented in detail First of all techniques for the efficient use of DSP based test and CAD test tools Standardization is another topic considered in the book with focus on the IEEE 1149.4 Also addressed in depth is the connecting design and test by means of using high level behavioural description techniques specific examples are given Another issue is related to test techniques for well defined classes of integrated blocks like data converters and phase locked loops Besides these specification driven testing techniques fault driven approaches are described as they offer potential solutions which are more similar to digital test methods Finally in Design for Testability and Built In Self Test two other concepts that were taken from digital design are introduced in an analog context and illustrated for the case of integrated filters In summary the purpose of this book is to provide a glimpse on recent research results in the area of testing mixed signal integrated circuits specifically in the topics mentioned above Much of the work reported herein has been performed

within cooperative European Research Projects in which the authors of the different chapters have actively collaborated. It is a representative snapshot of the current state of the art in this emergent field.

An Introduction to Mixed-signal IC Test and Measurement Gordon W. Roberts, Friedrich Taenzler, Mark Burns, 2012. With the proliferation of complex semiconductor devices containing digital analog mixed signal and radio frequency circuits the economics of test has come to the forefront and today's engineer needs to be fluent in all four circuit types. Having access to a book that covers these topics will help the evolving test engineer immensely and will be an invaluable resource. In addition the second edition includes lengthy discussion on RF circuits high speed I/Os and probabilistic reasoning. Appropriate for the junior senior university level this textbook includes hundreds of examples exercises and problems.

A Designer's Guide to Built-In Self-Test Charles E. Stroud, 2005-12-27. A recent technological advance is the art of designing circuits to test themselves referred to as a Built In Self Test. This book is written from a designer's perspective and describes the major BIST approaches that have been proposed and implemented along with their advantages and limitations.

Computer-Aided Design of Analog Integrated Circuits and Systems Rob A. Rutenbar, Georges G. E. Gielen, 2002-05-06. The tools and techniques you need to break the analog design bottleneck. Ten years ago analog seemed to be a dead end technology. Today System on Chip SoC designs are increasingly mixed signal designs. With the advent of application specific integrated circuits ASIC technologies that can integrate both analog and digital functions on a single chip analog has become more crucial than ever to the design process. Today designers are moving beyond hand crafted one transistor at a time methods. They are using new circuit and physical synthesis tools to design practical analog circuits new modeling and analysis tools to allow rapid exploration of system level alternatives and new simulation tools to provide accurate answers for analog circuit behaviors and interactions that were considered impossible to handle only a few years ago. To give circuit designers and CAD professionals a better understanding of the history and the current state of the art in the field this volume collects in one place the essential set of analog CAD papers that form the foundation of today's new analog design automation tools. Areas covered are Analog synthesis Symbolic analysis Analog layout Analog modeling and analysis Specialized analog simulation Circuit centering and yield optimization Circuit testing. **Computer Aided Design of Analog Integrated Circuits and Systems** is the cutting edge reference that will be an invaluable resource for every semiconductor circuit designer and CAD professional who hopes to break the analog design bottleneck.

Electronic Design Automation for IC System Design, Verification, and Testing Luciano Lavagno, Igor L. Markov, Grant Martin, Louis K. Scheffer, 2017-12-19. The first of two volumes in the Electronic Design Automation for Integrated Circuits Handbook. Second Edition. **Electronic Design Automation for IC System Design Verification and Testing** thoroughly examines system level design microarchitectural design logic verification and testing. Chapters contributed by leading experts authoritatively discuss processor modeling and design tools using performance metrics to select microprocessor cores for integrated circuit IC designs design and verification languages digital simulation hardware

acceleration and emulation and much more New to This Edition Major updates appearing in the initial phases of the design flow where the level of abstraction keeps rising to support more functionality with lower non recurring engineering NRE costs Significant revisions reflected in the final phases of the design flow where the complexity due to smaller and smaller geometries is compounded by the slow progress of shorter wavelength lithography New coverage of cutting edge applications and approaches realized in the decade since publication of the previous edition these are illustrated by new chapters on high level synthesis system on chip SoC block based design and back annotating system level models Offering improved depth and modernity Electronic Design Automation for IC System Design Verification and Testing provides a valuable state of the art reference for electronic design automation EDA students researchers and professionals **SOC Design Methodologies** Michel Robert,Bruno Rouzeyre,Christian Piguët,Marie-Lise Flottes,2002-07-31 The 11 th IFIP International Conference on Very Large Scale Integration in Montpellier France December 3 5 2001 was a great success The main focus was about IP Cores Circuits and System Designs 55 years ago in late 1947 the transistor was invented and everybody knows that it was by William Shockley John Bardeen and Walter H Brattain Bell Telephone Laboratories which received the Nobel Prize in Physics in 1956 Probably everybody thinks that it was recognized immediately as a major invention

Analog Signal Generation For Built In Self Test Of Mixed Signal Integrated Circuits Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be much more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Analog Signal Generation For Built In Self Test Of Mixed Signal Integrated Circuits**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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