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Multimeter

I recently opened the mailbox to find a little device about the size of White Castle burger. It was an “Analog Discovery 2” from Digilent. It is hard to categorize exactly what it is.

~~Review: Digilent Analog Discovery 2~~

I’m always on the lookout for a quality addition to my lab that would respect my strict budget. Recently, I’ve found myself pushing the Hertz barrier with every other project I do and hence ...

This book gives a detailed analysis of switched-capacitor DC-DC converters that are entirely integrated on a single chip and establishes that these converters are mainly limited by the large parasitic coupling, the low capacitor energy

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density, and the fact that switched-capacitor converter topologies only have a fixed voltage conversion ratio. The authors introduce the concept of Advanced Multiphasing as a way to circumvent these limitations by having multiple out-of-phase parallel converter cores interact with each other to minimize capacitor charging losses, leading to several techniques that demonstrate record efficiency and power-density, and even a fundamentally new type of switched-capacitor topology that has a continuously-scalable conversion ratio. Provides single-source reference to the recently-developed Advanced Multiphasing concept; Enables greatly improved performance and capabilities in fully integrated switched-capacitor converters; Enables readers to design DC-DC converters, where multiple converter cores are put in parallel and actively interact with each other over several

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phases to improve their capabilities.

The Sales & Marketing Policies and Procedures Manual - Easily Create your Growth Policy Manual Using a Process Approach to Manage Sales Strategies and Marketing Tactics Procedures. This Manual is the foundation of any business and can help you take control of your Sales & Marketing processes and improve key facets like lead generation and sales closing. Thoroughly researched and reviewed by experts, these pre-written policies and procedures are based on the continually improving process philosophy, and they incorporate best practices and proven techniques that provide results. Creating clear policies and procedures can help align your sales and marketing efforts, which dramatically improves your sales pipeline management. They also assist in determining which efforts and

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practices produce tangible results; leading to improved cost per lead and cost per sale performance. This new edition also includes updated and complete job descriptions for every job referenced in the text. Designed for busy professionals like Sales Managers, Marketing Managers, Sales & Marketing VPs, and Business Owners, the Sales & Marketing Policies and Procedures Manual can save you hundreds of hours in researching and writing the procedures you need to standardize efforts and practices in areas such as developing strategies and tactics, administration, lead management and lead qualification, customer life cycle management, training, and product launch. There is no need to start from scratch. It has already been done for you.

This book presents essential perspectives on digital convolutions in wireless

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communications systems and illustrates their corresponding efficient real-time field-programmable gate array (FPGA) implementations. FPGAs or generic all programmable devices will soon become widespread, serving as the “brains” of all types of real-time smart signal processing systems, like smart networks, smart homes and smart cities. The book examines digital convolution by bringing together the following main elements: the fundamental theory behind the mathematical formulae together with corresponding physical phenomena; virtualized algorithm simulation together with benchmark real-time FPGA implementations; and detailed, state-of-the-art case studies on wireless applications, including popular linear convolution in digital front ends (DFEs); nonlinear convolution in digital pre-distortion (DPD) enabled high-efficiency wireless RF

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transceivers; and fast linear convolution in massive multiple-input multiple-output (MIMO) systems. After reading this book, students and professionals will be able to:

- Understand digital convolution with inside-out information: discover what convolution is, why it is important and how it works.
- Enhance their FPGA design skills, i.e., enhance their FPGA-related prototyping capability with model-based hands-on examples.
- Rapidly expand their digital signal processing (DSP) blocks: to examine how to rapidly and efficiently create (DSP) functional blocks on a programmable FPGA chip as a reusable intellectual property (IP) core.
- Upgrade their expertise as both “thinkers” and “doers”: minimize/close the gap between mathematical equations and FPGA implementations for existing and emerging wireless applications.

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This textbook offers a unique compendium of measurement procedures for experimental data acquisition. After introducing readers to the basic theory of uncertainty evaluation in measurements, it shows how to apply it in practice to conduct a range of laboratory experiments with instruments and procedures operating both in the time and frequency domains. Offering extensive practical information and hands-on tips on using oscilloscopes, spectrum analyzers and reflectometric instrumentation, the book shows readers how to deal with e.g. filter characterization, operational amplifiers, digital and analogic spectral analysis, and reflectometry-based measurements. For each experiment, it describes the corresponding uncertainty evaluation in detail. Bridging the gap between theory and practice, the book offers a unique, self-contained guide for engineering students

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and professionals alike. It also provides university teachers and professors with a valuable resource for their laboratory courses on electric and electronic measurements.

This book provides state-of-the-art coverage for making measurements on RF and Microwave Components, both active and passive. A perfect reference for R&D and Test Engineers, with topics ranging from the best practices for basic measurements, to an in-depth analysis of errors, correction methods, and uncertainty analysis, this book provides everything you need to understand microwave measurements. With primary focus on active and passive measurements using a Vector Network Analyzer, these techniques and analysis are equally applicable to measurements made with

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Spectrum Analyzers or Noise Figure Analyzers. The early chapters provide a theoretical basis for measurements complete with extensive definitions and descriptions of component characteristics and measurement parameters. The latter chapters give detailed examples for cases of cable, connector and filter measurements; low noise, high-gain and high power amplifier measurements, a wide range of mixer and frequency converter measurements, and a full examination of fixturing, de-embedding, balanced measurements and calibration techniques. The chapter on time-domain theory and measurements is the most complete treatment on the subject yet presented, with details of the underlying mathematics and new material on time domain gating. As the inventor of many of the methods presented, and with

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30 years as a development engineer on the most modern measurement platforms, the author presents unique insights into the understanding of modern measurement theory. Key Features: Explains the interactions between the device-under-test (DUT) and the measuring equipment by demonstrating the best practices for ascertaining the true nature of the DUT, and optimizing the time to set up and measure Offers a detailed explanation of algorithms and mathematics behind measurements and error correction Provides numerous illustrations (e.g. block-diagrams for circuit connections and measurement setups) and practical examples on real-world devices, which can provide immediate benefit to the reader Written by the principle developer and designer of many of the measurement methods described This book will be an invaluable guide for RF and

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microwave R&D and test engineers, satellite test engineers, radar engineers, power amplifier designers, LNA designers, and mixer designers. University researchers and graduate students in microwave design and test will also find this book of interest.

Handbook of Optical Metrology: Principles and Applications begins by discussing key principles and techniques before exploring practical applications of optical metrology. Designed to provide beginners with an introduction to optical metrology without sacrificing academic rigor, this comprehensive text: Covers fundamentals of light sources, lenses, prisms, and mirrors, as well as optoelectronic sensors, optical devices, and optomechanical elements Addresses interferometry, holography, and speckle methods and applications Explains Moiré

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metrology and the optical heterodyne measurement method Delves into the specifics of diffraction, scattering, polarization, and near-field optics Considers applications for measuring length and size, displacement, straightness and parallelism, flatness, and three-dimensional shapes This new Second Edition is fully revised to reflect the latest developments. It also includes four new chapters—nearly 100 pages—on optical coherence tomography for industrial applications, interference microscopy for surface structure analysis, noncontact dimensional and profile metrology by video measurement, and optical metrology in manufacturing technology.

Cogently addressing the future of signal integrity and the effect it will have on the data-transmission industry as a whole, this all-inclusive guide addresses a wide array

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of technologies, from traditional, digital data transmission to microwave measurements, and accessibly examines the gap between the two. Focusing on real-world applications and providing a wide array of case studies that show how each technology can be used?from backplane design challenges to advanced error correction techniques?this guide addresses many of today's high-speed technologies while also providing excellent insight into their future direction. With numerous valuable lessons pertaining to the signal integrity industry, this resource is the ultimate must-read guide for any specialist in the design engineering field.

Handbook of Microwave Component Measurements Second Edition is a fully updated, complete reference to this topic,

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focusing on the modern measurement tools, such as a Vector Network Analyzer (VNA), gathering in one place all the concepts, formulas, and best practices of measurement science. It includes basic concepts in each chapter as well as appendices which provide all the detail needed to understand the science behind microwave measurements. The book offers an insight into the best practices for ascertaining the true nature of the device-under-test (DUT), optimizing the time to setup and measure, and to the greatest extent possible, remove the effects of the measuring equipment from that result. Furthermore, the author writes with a simplicity that is easily accessible to the student or new engineer, yet is thorough enough to provide details of measurement science for even the most advanced applications and researchers. This welcome new edition brings forward the

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most modern techniques used in industry today, and recognizes that more new techniques have developed since the first edition published in 2012. Whilst still focusing on the VNA, these techniques are also compatible with other vendor's advanced equipment, providing a comprehensive industry reference.

Impedance Spectroscopy is a powerful measurement method used in many application fields such as electrochemistry, material science, biology and medicine, semiconductor industry and sensors. Using the complex impedance at various frequencies increases the informational basis that can be gained during a measurement. It helps to separate different effects that contribute to a measurement and, together with advanced mathematical methods, non-accessible quantities can be calculated. This book

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covers new advances in the field of impedance spectroscopy including fundamentals, methods and applications. It releases scientific contributions from the International Workshop on Impedance Spectroscopy (IWIS) as extended chapters including detailed information about recent scientific research results. The book includes typically subsections on:

Fundamental of Impedance Spectroscopy
Bio impedance Techniques and
Applications Impedance Spectroscopy for
Energy Storage Systems Sensors Based on
Impedance Spectroscopy Measurement
systems Excitation Signals Modeling
Parameter extraction

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