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# Infiniium Oscilloscope User Manual

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on  
Computational  
Science X  
Springer  
Science &*

Business Media design,  
As many verification, c  
circuits and haracterization  
applications , and  
now enter the application of  
Gigahertz electronic  
frequency circuits. To be  
range, successful in  
accurate this field an  
digital timing engineer needs  
measurements to understand i  
have become nstrumentation,  
crucial in the measurement

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techniques, signal integrity, jitter and timing concepts, and statistics. This book gives a compact, practice-oriented overview on all these subjects with emphasis on useable concepts and real-life guidelines.

Handbook of Nanomaterials Properties

Elsevier

This book explains how depth measurements from the Time-of-Flight (ToF) range imaging cameras are influenced by the electronic timing-jitter. The author presents

jitter extraction and measurement techniques for any type of ToF range imaging cameras. The author mainly focuses on ToF cameras that are based on the amplitude modulated continuous wave (AMCW) lidar techniques that measure the phase difference between the emitted and reflected light signals. The book discusses timing-jitter in the emitted light signal, which is sensible since the light signal of the camera is relatively straightforward to access. The specific types of jitter that

present on the light source signal are investigated throughout the book. The book is structured across three main sections: a brief literature review, jitter measurement, and jitter influence in AMCW ToF range imaging.

*The 3-D Oscilloscope*  
CRC Press

Due to progress in the development of communication systems, it is now possible to develop low-cost wearable communication systems. A wearable antenna is meant to be a part of the clothing or close to the body and used for communication purposes, which include tracking and

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navigation, mobile computing and public safety. Examples include smartwatches (with integrated Bluetooth antennas), glasses (such as Google Glass with Wi-Fi and GPS antennas), GoPro action cameras (with Wi-Fi and Bluetooth antennas), etc. They are increasingly common in consumer electronics and for healthcare and medical applications. However, the development of compact, efficient wearable antennas is one of the major challenges in the development of wearable communication and medical systems. Technologies such as printed compact antennas and miniaturization techniques have been

developed to create efficient, small wearable antennas which are the main objective of this book. Each chapter covers enough mathematical detail and explanations to enable electrical, electromagnetic and biomedical engineers and students and scientists from all areas to follow and understand the topics presented. New topics and design methods are presented for the first time in the area of wearable antennas, metamaterial antennas and fractal antennas. The book covers wearable antennas, RF measurements techniques and measured results in the vicinity of the human body, setups and design considerations. The wearable antennas and

devices presented in this book were analyzed by using HFSS and ADS 3D full-wave electromagnetics software. Explores wearable medical systems and antennas Explains the design and development of wearable communication systems Explores wearable reconfigurable antennas for communication and medical applications Discusses new types of metamaterial antennas and artificial magnetic conductors (AMC) Reviews textile antennas Dr. Albert Sabban holds a PhD in Electrical Engineering from the University of Colorado at Boulder, USA (1991), and an MBA from the Faculty of

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Management, Haifa University, Israel (2005). He is currently a Senior Lecturer and researcher at the Department of Electrical and Electronic Engineering at Kinneret and Ort Braude Engineering Colleges. Oscilloscopes Prentice Hall All model parameters are fundamentally coupled together, so that directly measured individual parameters, although widely used and accepted, may initially only serve as good estimates. This comprehensive resource presents all aspects

concerning the modeling of semiconductor field-effect device parameters based on gallium-arsenide (GaAs) and gallium nitride (GaN) technology. Metal-semiconductor field-effect transistors (MESFETs), high electron mobility transistors (HEMTs) and heterojunction bipolar transistors (HBTs), their structures and functions, and existing transistor models are also classified. The Shockley model is presented in order to give insight into semiconductor field-effect transistor (FET) device physics

and explain the relationship between geometric and material parameters and device performance. Extraction of trapping and thermal time constants is discussed. A special section is devoted to standard nonlinear FET models applied to large-signal measurements, including static-/pulsed-DC and single-/two-tone stimulation. High power measurement setups for signal waveform measurement, wideband source-/load-pull measurement (including

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envelope source-/load pull) are also included, along with high-power intermodulation distortion (IMD) measurement setup (including envelope load-pull). Written by a world-renowned expert in the field, this book is the first to cover of all aspects of semiconductor FET device modeling in a single volume. **Wearable Systems and Antennas Technologies for 5G, IOT and Medical Systems** Springer Nature Learn about the revolutionary new technology of negative-refraction metamaterials **Negati**

**ve-Refractio**  
**Metamaterials: Fundamental Principles and Applications** introduces artificial materials that support the unusual electromagnetic property of negative refraction. Readers will discover several classes of negative-refraction materials along with their exciting, groundbreaking applications, such as lenses and antennas, imaging with super-resolution, microwave devices, dispersion-compensating interconnects, radar, and defense.

The book begins with a chapter describing the fundamentals of isotropic metamaterials in which a negative index of refraction is defined. In the following chapters, the text builds on the fundamentals by describing a range of useful microwave devices and antennas. Next, a broad spectrum of exciting new research and emerging applications is examined, including: \* Theory and experiments behind a super-resolving, negative-

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refractive-index (resonance cones) \* engineers,  
 transmission-line Implementations and graduate-level  
 lens \* 3-D of negative- students in physics,  
 transmission-line refraction chemistry,  
 metamaterials with metamaterials at materials  
 a negative optical frequencies science, photonics,  
 refractive index \* \* Unusual and electrical  
 Numerical propagation engineering.  
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 is anisotropic and cutting-edge field. October 2011. The  
 supports the It is fascinating 14 full papers  
 formation of sharp reading for presented together  
 steerable beams scientists, with the abstracts of  
 2 invited lectures

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were carefully reviewed and selected from 112 submissions. The papers address all current aspects in cryptography, security aspects in high performance computing and in networks as well. The papers are divided in topical sections on embedded security; digital rights management; cryptographic protocols; cryptanalysis/side channel attacks; and cipher primitives. High-Speed System and Analog Input/Output Design Springer Science & Business Media

This volume constitutes the refereed proceedings of the First IFIP TC6 / WG 8.8 / WG 11.2 International Workshop on Information Security Theory and Practices: Smart Cards, Mobile and Ubiquitous Computing Systems, WISTP 2007, held in Heraklion, Crete, Greece in May 2007. The 20 revised full papers are organized in topical sections on mobility, hardware and cryptography, privacy, cryptography schemes, smart

cards, and small devices. Cost-Justifying Usability John Wiley & Sons This book describes for readers the entire, interconnected complex of theoretical and practical aspects of designing and organizing the production of various electronic devices, the general and main distinguishing feature of which is the high speed of processing and transmitting of digital signals. The authors discuss all the main stages of design - from the upper system level

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of the hierarchy (tel ecommunications system, 5G mobile communications) to the lower level of basic semiconductor elements, printed circuit boards. Since the developers of these devices in practice deal with distorted digital signals that are transmitted against a background of interference, the authors not only explain the physical nature of such effects, but also offer specific solutions as to how to avoid such parasitic effects, even at the design stage of high-speed

devices. Nanomaterials in Bio-Medical Applications Stanford University This proceedings volume includes articles presented during the Advanced Research Workshop on Soft Target Protection. The book presents important topics related to the protection of vulnerable objects and spaces, called Soft Targets. The chapters published in this book are thematically assigned to the blocks as follows: Theoretical aspect of soft target

protection; Blast resistance of soft targets; Counter terrorism; Technical and technological solutions for soft target protection; Scheme and organizational measures; Blast protection and Forces for soft target protection. In this book, the reader will find a wealth of information about the theoretical background for designing protection of soft targets, as well as the specifics of protecting objects in armed conflict areas. New methods and



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procedures applicable to the soft target protection are described. Security Aspects in Information Technology Springer You just know that an improvement of the user interface will reap rewards, but how do you justify the expense and the labor and the time—guarantee a robust ROI!—ahead of time? How do you decide how much of an investment should be funded? And what is the best way to sell usability to others?

In this completely revised and new edition of Cost-Justifying Usability, Randolph G. Bias (University of Texas at Austin, with 25 years' experience as a usability practitioner and manager) and Deborah J. Mayhew (internationally recognized usability consultant and author of two other seminal books including The Usability Engineering Lifecycle) tackle these and many other problems. It has been updated to cover cost-

justifying usability for Web sites and intranets, for the complex applications we have today, and for a host of products—offering techniques, examples, and cases that are unavailable elsewhere. No matter what type of product you build, whether or not you are a cost-benefit expert or a born salesperson, this book has the tools that will enable you to cost-justify the appropriate usability investment. Includes contributions by a

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host of experts involved in this work, including Aaron Marcus, Janice Rohn, Chauncey Wilson, Nigel Bevan, Dennis Wixon, Clare-Marie Karat, Susan Dray, Charles Mauro, and many others Includes actionable ideas for every phase of the software development process Includes case studies from inside a variety of companies Includes ideas from "the other side of the table," software executives who hold the purse strings, who offer thoughts on which

proposals for usability support they've funded, and which ones they've declined Digital Timing Measurements J ö rg Vogt Verlag Due to its impressive sensitivity, long baseline atom interferometry is an exciting tool for tests of fundamental physics. We are currently constructing a 10-meter scale apparatus to test the Weak Equivalence Principle (WEP) using co-located Rb85 and Rb87 atom interferometers.

This apparatus aims to improve the current limit on WEP violation 100-fold, which illustrates the power of this technique. This scientific goal sets stringent requirements on the kinematic preparation of the atomic test masses, the interferometer laser wavefront and stability, as well as the electromagnetic and gravitational field homogeneity of the interferometer region. The efforts to control these sources of systematic error are discussed.

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Additionally, applications of long baseline atom interferometry to space-based sensors for geodesy and gravitational wave detection are presented.

An Introduction to Microwave Measurements

Prentice Hall

A practical guide to LTE design, test and measurement, this new edition has been updated to include the latest developments. This book presents the latest details on LTE from a practical and technical perspective. Written by Agilent's measurement experts, it offers a valuable insight into LTE technology and its design and test

challenges. Chapters cover the upper layer signaling and system architecture evolution (SAE). Basic concepts such as MIMO and SC-FDMA, the new uplink modulation scheme, are introduced and explained, and the authors look into the challenges of verifying the designs of the receivers, transmitters and protocols of LTE systems. The latest information on RF and signaling conformance testing is delivered by authors participating in the LTE 3GPP standards committees. This second edition has been considerably revised to reflect the most recent developments of the technologies and standards. Particularly important updates include an increased

focus on LTE-Advanced as well as the latest testing specifications. Fully updated to include the latest information on LTE 3GPP standards. Chapters on conformance testing have been majorly revised and there is an increased focus on LTE-Advanced. Includes new sections on testing challenges as well as over the air MIMO testing, protocol testing and the most up-to-date test capabilities of instruments. Written from both a technical and practical point of view by leading experts in the field. **A Guide to Feedback Theory** IGI Global. The two-volume set CCIS 143 and CCIS 144

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constitutes the refereed proceedings of the International Conference on Electronic Commerce, Web Application, and Communication, ECWAC 2011, held in Guangzhou, China, in April 2011. The 148 revised full papers presented in both volumes were carefully reviewed and selected from a large number of submissions. Providing a forum for engineers, scientists, researchers in electronic commerce, Web application, and

communication fields, the conference will put special focus also on aspects such as e-business, e-learning, and e-security, intelligent information applications, database and system security, image and video signal processing, pattern recognition, information science, industrial automation, process control, user / machine systems, security, integrity, and protection, as well as mobile and multimedia communications. Research

Methodology in Chemical Sciences Springer Nature Go Beyond Basic Distributed Circuit AnalysisAn Introduction to Microwave Measurements has been written in a way that is different from many textbooks. As an instructor teaching a master's-level course on microwave measurements, the author recognized that few of today's graduate electrical engineering students are knowledgeable about microwave measu

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Mobile Lightweight  
Wireless Systems  
CRC Press  
Over the past two  
decades,  
international trade  
agreements such  
as GATT and  
NAFTA have  
lowered  
international trade  
barriers. At the  
same time, the  
information  
revolution has  
fueled profound  
shifts in the ways  
companies  
conduct business  
and communicate  
with their  
customers, and  
worldwide  
acceptance of the  
ISO 9000  
standard has  
established the  
notion that quality

must be defined in  
terms of customer  
satisfaction. Falling  
trade barriers and  
rising quality  
standards have  
made linguistic  
and cultural issues  
increasingly  
important. To  
successfully  
compete in today's  
global on-demand  
economy,  
companies must  
localize their  
products and  
services to fit the  
needs of the local  
market in terms of  
language, culture,  
functionality, work  
practices, as well as  
legal and  
regulatory  
requirements. In  
recognition of the  
growing

importance of  
localization, this  
volume explores a  
certain number of  
key issues,  
including:  
Return on  
investment and the  
localization  
business case  
Localization cost  
drivers and cost-  
containment  
strategies  
Localization  
quality and  
customer-focused  
quality  
management  
Challenges posed  
by localization of  
games, including  
Massively  
Multiplayer  
Online Role-  
Playing Games  
(MMORPGs)  
Using a meta-

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language to facilitate accurate translation of disembodied content The case for managing source-language terminology Terminology management in the localization process Reconciling industry needs and academic objectives in localization education Localization standards and the commoditization of linguistic information The creation and application of language industry standards Rethinking

customer-focused localization through user-centered design Moving from translation reuse to language reuse Optics for AI and AI for Optics John Wiley & Sons The new edition of this textbook is based on Dr. Thanh T. Tran ' s 10+ years ' experience teaching high-speed digital and analog design courses at Rice University and 30+ years ' experience working in high-speed system design, including signal and power integrity in digital signal processing (DSP), computer, and embedded

system. The book provides hands-on, practical instruction on high-speed digital and analog design for students and working engineers. The author first presents good high-speed digital and analog design practices that minimize both component and system noise and ensure system design success. He then presents guidelines to be used throughout the design process to reduce noise and radiation and to avoid common pitfalls while improving quality and reliability. The book is filled with tips on design and system simulation

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that minimize late stage redesign costs and product shipment delays. Hands-on design examples focusing on audio, video, analog filters, DDR memory, and power supplies are featured throughout. In addition, the author provides a practical approach to design multi-gigahertz high-speed serial busses (USB-C, PCIe, HDMI, DP) and simulate printed circuit board insertion and return loss using s-parameter models.

Optical  
Modulation  
Springer  
The LNCS  
journal  
Transactions on

Computational Science reflects recent developments in the field of Computational Science, conceiving the field not as a mere ancillary science but rather as an innovative approach supporting many other scientific disciplines. The journal focuses on original high-quality research in the realm of computational science in parallel and distributed environments, encompassing the facilitating theoretical foundations and

the applications of large-scale computations and massive data processing. It addresses researchers and practitioners in areas ranging from aerospace to biochemistry, from electronics to geosciences, from mathematics to software architecture, presenting verifiable computational methods, findings, and solutions and enabling industrial users to apply techniques of leading-edge, large-scale, high performance computational

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methods. The 10th issue of the Transactions on Computational Science, edited by Edward David Moreno, is the first of two publications focusing on security in computing. The 14 papers included in the volume address a wide range of applications and designs, such as new architectures, novel hardware implementations, cryptographic algorithms, and security protocols. Machine Design John Wiley & Sons Nanomaterials attract tremendous

attention in recent researches. Although extensive research has been done in this field it still lacks a comprehensive reference work that presents data on properties of different Nanomaterials. This Handbook of Nanomaterials Properties will be the first single reference work that brings together the various properties with wide breadth and scope. Perspectives on Localization Materials Research Forum LLC This book constitutes the refereed proceedings of the

Cryptographers' Track at the RSA Conference 2012, CT-RSA 2012, held in San Francisco, CA, USA, in February/March 2012. The 26 revised full papers presented were carefully reviewed and selected from 113 submissions. The papers are organized in topical sections on side channel attacks, digital signatures, public-key encryption, cryptographic protocols, secure implementation methods, symmetric key primitives, and secure multiparty computation. Soft Target Protection Newnes Recent Methodology in Chemical Sciences provides an eclectic survey of contemporary problems in



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experimental, theoretical, and applied chemistry. This book covers recent trends in research with the different domain of the chemical sciences. The chapters, written by knowledgeable researchers, provide different insights to the modern-day research in the domain of spectroscopy, plasma modification, and theoretical and computational analysis of chemical problems. It covers descriptions of experimental techniques, discussions on theoretical modeling, and much more.