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A 1Tb/s 3W inter-chip transceiver

transmits clock and data by inductive

coupling at a clock rate of 1GHz and data

rate of 1Gb/s per channel. 1024 data

transceivers are arranged with a pitch of

30µm in ...

1Tb/s 3W Inductive-Coupling

Transceiver IP for 3D-Stacked SiP

NT2024 is a 4-channel RF front end

designed to perform a simultaneous

reception ... 3 supports the ADC/DAC

with 80Msps sampling ... This is the 4th

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High-Speed SDR RF IP that would support
2x2 and a ...

Gnss IP Listing

A system designer may select a high
excitation ... time to settle between
sampling instants. Buffering the analog
and reference inputs prevents these gain
errors and allows unlimited R and C
values to ...

Optimizing RTD temperature sensing systems: Design

Sampling Frequency Sampling frequency
is the frequency of ... Analog Input
Channels: This is the maximum number of
analog channel inputs. The single-ended
number is specified when single-ended
inputs ...

Vibration and Acceleration Signal Conditioners Specifications

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Cheap high speed USB communications allowing for rapid programming ...

Multiple counter and analog inputs, sampling rates up to 1/30 second, SD or other removable card for memory and program files If ...

Data Loggers and Data Recorders - Insights

Cocaine use is associated with high levels of impulsive choice (preference for immediate over delayed rewards), but it is not clear whether cocaine use causes elevated impulsive choice, or whether ...

Self-Administered Cocaine Causes Long-Lasting Increases in Impulsive Choice in a Delay Discounting Task

C DV 6 Image Processor and dual SD card slots enable simultaneous recording the web-ready MP4 format ... quality from our XA series camcorder is now even better

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thanks to Over Sampling HD Processing,

...

Canon XA45 4K UHD Pro Camcorder with 20x Zoom Lens,with Premium Accessory Bundle

It is not available in every country that supports the Apple TV app, and doesn't include certain high-population ... The \$4.99 subscription includes 4K and up to six simultaneous streams ...

Apple TV Plus: What is it? Should you get it? Everything you need to know

Simultaneous ... to 60 fps (x0.4) in Full HD (30 fps in 4K UHD) is supported, helping to create an emotionally moving and exciting style of video. Our Full HD image quality from our XA series ...

Canon XA50 1" CMOS 4K UHD Pro Camcorder with 15x Optical Zoom Lens

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A simultaneous ... monitor needs to have a high specificity/high LR for a positive result. Similar to the goal of reducing the probability of sleep apnea (section 4.1.1), the percentage of ...

Home Diagnosis of Sleep Apnea: A Systematic Review of the Literature

Spike-and-wave discharges (SWDs) of absence epilepsy are considered as pathologic alterations of sleep spindles; however, their network-level relationship has never been convincingly revealed. In ...

Spike-and-Wave Discharges Are Not Pathological Sleep Spindles, Network-Level Aspects of Age-Dependent

Absence Seizure Development in Rats
Ultrasound guided fine needle aspiration or core biopsy tissue sampling is a

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frequently ... advanced through the working channel of the endoscope for evaluation of the bowel mucosa. Currently under ...

New Developments in Gastrointestinal Imaging

You've got to understand pixel counts, bit rates, bit depth, color sampling, sampling frequencies ... more 2014 — Premiere Pro's new look supports HiDPI (high dots/inch) monitors like MacBook Pro's ...

Editing Today: Beyond the NLE

The Criterion Channel video streaming service lets you watch most of the films in the Criterion Collection without buying physical media, without ads, and in high-definition. PROS On-demand ...

The Best Horror Streaming Services for

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Paul Stoffregen did it again: the Teensy 4.0 has been released ... real-time applications — one of the problems with other high-power microcontrollers. The 64-bit ITCM bus can fetch 64-bits ...

New Teensy 4.0 Blows Away Benchmarks, Implements Self-

Recovery, Returns To Smaller Form

High fidelity computational fluid ... the results to an operator on the ground; and
4) produce a software interface for: (a) defining cross-sections and thus establishing flight plans; (b) inputting ...

This monograph presents a reliable methodology for characterising the energy and eco-efficiency of unit manufacturing processes. The Specific Energy

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Consumption, SEC, will be identified as the key indicator for the energy efficiency of unit processes. An empirical approach will be validated on different machine tools and manufacturing processes to depict the relationship between process parameters and energy consumptions. Statistical results and additional validation runs will corroborate the high level of accuracy in predicting the energy consumption. In relation to the eco-efficiency, the value and the associated environmental impacts of manufacturing processes will also be discussed. The interrelationship between process parameters, process value and the associated environmental impact will be integrated in the evaluation of eco-efficiency. The book concludes with a further investigation of the results in order to develop strategies for further efficiency improvement. The target audience

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High Speed 12 Bit ADCs
primarily comprises researchers and experts in the field, but the book may also be beneficial for graduate students.

This comprehensive handbook is a one-stop engineering reference. Covering data converter fundamentals, techniques, applications, and beginning with the basic theoretical elements necessary for a complete understanding of data converters, this reference covers all the latest advances in the field. This text describes in depth the theory behind and the practical design of data conversion circuits as well as describing the different architectures used in A/D and D/A converters. Details are provided on the design of high-speed ADCs, high accuracy DACs and ADCs, and sample-and-hold amplifiers. Also, this reference covers voltage sources and current reference, noise-shaping coding, and sigma-delta

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converters, and much more. The book's 900-plus pages are packed with design information and application circuits, including guidelines on selecting the most suitable converters for particular applications. You'll find the very latest information on:

- Data converter fundamentals, such as key specifications, noise, sampling, and testing
- Architectures and processes, including SAR, flash, pipelined, folding, and more
- Practical hardware design techniques for mixed-signal systems, such as driving ADCs, buffering DAC outputs, sampling clocks, layout, interfacing, support circuits, and tools
- Data converter applications dealing with precision measurement, data acquisition, audio, display, DDS, software radio and many more.

The accompanying CD-ROM provides software tools for testing and analyzing data converters as well as a

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High-Speed 12-Bit A/D
searchable pdf version of the text. * Brings together a huge amount of information impossible to locate elsewhere. * Many recent advances in converter technology simply aren't covered in any other book. * A must-have design reference for any electronics design engineer or technician.

Brain-Computer Interfacing, Volume 168, not only gives readers a clear understanding of what BCI science is currently offering, but also describes future expectations for restoring lost brain function in patients. In-depth technological chapters are aimed at those interested in BCI technologies and the nature of brain signals, while more comprehensive summaries are provided in

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High-Speed 12-Bit ADCs

the more applied chapters. Readers will be able to grasp BCI concepts, understand what needs the technologies can meet, and provide an informed opinion on BCI science. Explores how many different causes of disability have similar functional consequences (loss of mobility, communication etc.) Addresses how BCI can be of use Presents a multidisciplinary review of BCI technologies and the opportunities they provide for people in need of a new kind of prosthetic Offers a comprehensive, multidisciplinary review of BCI for researchers in neuroscience and traumatic brain injury that is also ideal for clinicians in neurology and neurosurgery

Devices overview. Discrete signal and systems. Z transforms. The discrete Fourier transform. FIR and IIR filter

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design methods. Kalman filters.

Implementation of digital control algorithms. Review of architectures.

Microcontrollers. Systolic arrays. Case studies.

This book focuses on key simulation and evaluation technologies for 5G systems. Based on the most recent research results from academia and industry, it describes the evaluation methodologies in depth for network and physical layer technologies. The evaluation methods are discussed in depth. It also covers the analysis of the 5G candidate technologies and the testing challenges, the evolution of the testing technologies, fading channel measurement and modeling, software simulations, software hardware cosimulation, field testing and other novel evaluation methods. The fifth-generation (5G) mobile communications system targets highly

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High School 42 Dittels

improved network performances in terms of the network capacity and the number of connections. Testing and evaluation technologies is widely recognized and plays important roles in the wireless technology developments, along with the research on basic theory and key technologies. The investigation and developments on the multi-level and comprehensive evaluations for 5G new technologies, provides important performance references for the 5G technology filtering and future standardizations. Students focused on telecommunications, electronic engineering, computer science or other related disciplines will find this book useful as a secondary text. Researchers and professionals working within these related fields will also find this book useful as a reference.

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This Special Issue focuses on the state-of-the-art results from the definition and design of filters for low- and high-frequency applications and systems. Different technologies and solutions are commonly adopted for filter definition, from electrical to electromechanical and mechanical solutions, from passive to active devices, and from hybrid to integrated designs. Aspects related to both theoretical and experimental research in filter design, CAD modeling and novel technologies and applications, as well as filter fabrication, characterization and testing, are covered. The proposed research articles deal with different topics as follows: Modeling, design and simulation of filters; Processes and fabrication technologies for filters; Automated characterization and test of filters; Voltage and current mode filters; Integrated and discrete filters; Passive and

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High Cut 12 Bit A/Ds,
active filters; Variable filters,
characterization and tunability.

This three volume set LNAI 9244, 9245, and 9246 constitutes the refereed proceedings of the 8th International Conference on Intelligent Robotics and Applications, ICIRA 2015, held in Portsmouth, UK, in August 2015. The 60 papers included in the first volume are organized in topical sections on analysis and control for complex systems; marine vehicles and oceanic engineering; drives and actuators' modeling; biomechatronics in bionic dexterous hand; robot actuators and sensors; intelligent visual systems; estimation and identification; and adaptive control system.

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