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4-Channel Simultaneous Sampling High

Collective Mining Ltd. is pleased to provide an exploration update on its Guayabales Project located in Caldas, Colombia. The project is situated contiguous, immediately along strike and to the ...

~~Collective Mining Channel Samples 45.52 g/t gold and 27 g/t silver along 37.5 metres in Underground Development at the Guayabales Project, Colombia~~

The model EV12AQ600 ADC (see image above) features 12-bit resolution and 1.6 GS/s maximum sampling rate across each channel or a maximum rate of 6.4 GS/s for one channel when the four channels are ...

~~Four-Channel ADC Makes the Grade for Space~~

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TI extends its family of SAR ADCs, striving to beat old design challenges. How do these new family members stack up when compared to some competitors?

~~TI's New SAR ADCs Beat Old Noise and Sampling Rate Challenges~~

Electronic enthusiasts may be interested in a new open source, stackable 32-channel EEG ADC powered by a Cortex-M7 which has just launched via the Crowd Supply website and is now available to ...

~~Free EEG 32 open source 32-channel EEG ADC~~

Battery Mineral Resources Corp. (TSXV: BMR) (" Battery " or " BMR " or the " Company ") announces that it has completed a seven hole - 682.00 metre diamond drill program on its 100% owned Bald Rock ...

~~Battery Mineral Resources Plans Diamond Drilling on the Bald Rock Cobalt-Silver Target in the Gowganda Area~~

EG-UC5T is characterised by its large, 4.0-mm instrument channel and its short rigid distal ... not only able to perform the adequate tissue sampling, but also various therapeutic interventional ...

~~SonoScape obtains CE Mark for its linear array echoendoscope EG-UC5T~~

Scottie Resources Corp. (" Scottie " or the " Company ") (TSXV: SCOT) is happy to report that it has commenced its 2021 drill program. The 12,500 m drill program is designed to advance multiple ...

~~Scottie Commences 2021 Drill Program and Reports New Intercept of 6.2 g/t Gold Over 4.35 m at Blueberry Zone~~

MacDonald Mines Exploration Ltd. ("MacDonald Mines" or

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the "Company") announces results from 3 further channel samples taken at the Glade West Showing as part of its ongoing mechanized stripping and ...

~~MacDonald Mines Reports 8.91 g/t Gold over 1.60 m, including 17.50 g/t Gold over 0.80 m from Further Channel Samples at Glade~~

The company noted significant high-grade mineralisation ... 0.2% zinc including; 4.0m at 203.8 g/t AuEq2 – 201.6 g/t gold, 172.0 g/t silver, 0.1% zinc. Sampling up-dip of previous channel ...

~~Why the Challenger (ASX:CEL) share price is storming 27% higher today~~

Winshear Gold Corp. (TSX-V: WINS) is pleased to report that it has received gold assay results from an additional 199 bedrock channel samples taken in April and May of 2021 at the Gaban Gold Project ...

~~Winshear Discovers New Outcropping Gold Mineralisation at its Gaban Gold Project in the Puno Gold Belt, Peru~~

Further high ... 4% zinc, 2.2% lead and 39 g/t silver from 10.3 metres. Additionally, Alta Zinc uncovered more new mineralisation at Ponente West another 260 metres to the east, where channel ...

~~Alta Zinc expands mineralisation footprint at Gorno Project with high-grade zinc results~~

4.0-mm instrument channel and its short rigid distal end, pushing the boundaries of therapeutic excellence. With the arrival of the linear-array echoendoscope EG-UC5T, SonoScape users are not only ...

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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 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 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.

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This monograph presents a reliable methodology for characterising the energy and eco-efficiency of unit manufacturing processes. The Specific Energy 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 primarily comprises researchers and experts in the field, but the book may also be beneficial for graduate students.

Devices overview. Discrete signal and systems. Z transforms. The discrete Fourier transform. FIR and IIR filter design methods. Kalman filters. Implementation of digital control algorithms. Review of architectures. Microcontrollers. Systolic arrays. Case studies.

This book offers students and those new to the topic of analog-to-digital converters (ADCs) a broad introduction, before going into details of the state-of-the-art design

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techniques for SAR and DS converters, including the latest research topics, which are valuable for IC design engineers as well as users of ADCs in applications. The book then addresses important topics, such as correct connectivity of ADCs in an application, the verification, characterization and testing of ADCs that ensure high-quality end products. Analog-to-digital converters are the central element in any data processing system and regulation loops such as modems or electrical motor drives. They significantly affect the performance and resolution of a system or end product. System development engineers need to be familiar with the performance parameters of the converters and understand the advantages and disadvantages of the various architectures. Integrated circuit development engineers have to overcome the problem of achieving high performance and resolution with the lowest possible power dissipation, while the digital circuitry generates distortion in supply, ground and substrate. This book explains the connections and gives suggestions for obtaining the highest possible resolution. Novel trends are illustrated in the design of analog-to-digital converters based on successive approximation and the difficulties in the development of continuous-time delta-sigma modulators are also discussed.

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

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evaluation methods. The fifth-generation (5G) mobile communications system targets highly 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.

Analysis and Control System Techniques for Electric Power Systems, Part 4 is the fourth volume of a four volume sequence in this series devoted to the significant theme of "Analysis and Control Techniques for Electric Power Systems." The broad topics involved include transmission line and transformer modeling. Since the issues in these two fields are rather well in hand, although advances continue to be made, this four volume sequence will focus on advances in areas including power flow analysis, economic operation of power systems, generator modeling, power system stability, voltage and power control techniques, and system protection, among others. This book comprises seven chapters, with the first focusing on computer relaying in power systems. Succeeding chapters then discuss advanced control techniques for high performance electric drives; high voltage outdoor insulation technology; and power system generation expansion planning using the

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maximum principle and analytical production cost model. Other chapters cover development of expert systems and their learning capability for power system applications; advances in fast power flow algorithms; and power systems state estimation based on least absolute value (LAV). This book will be of interest to practitioners in the fields of electrical and computer engineering.

The second edition of this highly successful text focuses on the major changes that have taken place in this field in recent times. *Data Acquisition Techniques Using PCs, Second Edition*, recognises that data acquisition is the core of most engineering and many life science systems in measurement and instrumentation. It will prove invaluable to scientists, engineers, students and technicians wishing to keep up with the latest technological developments. Teaches the reader how to set up a PC-based system that measures, analyzes, and controls experiments and processes through detailed design examples Geared for beginning and advanced users, with many tutorials for less experienced readers, and detailed standards references for more experienced readers Fully revised new edition discusses latest programming languages and includes a list of over 80 product manufacturers to save valuable time

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

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and identification; and adaptive control system.

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