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Vehicle and Automotive Engineering 2 Academic Press
This book summarizes the key scientific outcomes of the Horizon 2020 research project TULIPP: Towards Ubiquitous Low-power Image Processing Platforms. The main focus lies on the development of high-performance, energy-efficient embedded systems for the growing range of increasingly complex image processing applications. The holistic TULIPP approach is described in the book, which addresses hardware platforms, programming tools and embedded operating systems. Several of the results are available as open-source hardware/software for the community. The results are evaluated with several use cases taken from real-world applications in key domains such as Unmanned Aerial Vehicles (UAVs), robotics, space and medicine. Discusses the development of high-performance, energy-efficient embedded systems for the growing range of increasingly complex image processing applications; Covers the hardware architecture of embedded image processing systems, novel methods, tools and libraries for programming those systems as well as embedded operating systems to manage those systems; Demonstrates results with several challenging applications, such as medical systems, robotics, drones and automotive.

Liquid Crystal Devices "O'Reilly Media, Inc."

Hands-On Introduction to LabVIEW for Scientists and Engineers, Third Edition, explores practical programming solutions for carrying out interesting and relevant projects. Readers--who are assumed to have no prior computer programming or LabVIEW background--will

begin writing meaningful programs in the first few pages.
Remote Laboratories: Empowering Stem Education With Technology Oxford University Press on Demand
The development of new and effective analytical and numerical models is essential to understanding the performance of a variety of structures. As computational methods continue to advance, so too do their applications in structural performance modeling and analysis. **Modeling and Simulation Techniques in Structural Engineering** presents emerging research on computational techniques and applications within the field of structural engineering. This timely publication features practical applications as well as new research insights and is ideally designed for use by engineers, IT professionals, researchers, and graduate-level students.

Annual Report of the Damodar Valley Corporation and Audit Report Artech House Publishers

PRINT SUBSCRIPTION CANCELLED - 10/2013.

Epoxy Polymers Newnes

This book provides readers with a comprehensive, state-of-the-art overview of approximate computing, enabling the design trade-off of accuracy for achieving better power/performance efficiencies, through the simplification of underlying computing resources. The authors describe in detail various efforts to generate approximate hardware systems, while still providing an overview of support techniques at other computing layers. The book is organized by techniques for various hardware components, from basic building blocks to general circuits and systems.

Boletim do Banco Central do Brasil CRC Press

The book presents practical aspects related to the measurement of rotational power loss in soft magnetic materials. The book furthermore focuses

on practical aspects of performing such measurements, the associated difficulties as well as solutions to the most common problems. Numerous practical aspects, hands-on experience, and most commonly encountered pitfalls are heavily discussed in the book. The text begins with introduction to magnetism, then follows with definitions of measurement methods of rotational power loss from physical viewpoint. Two chapters describe and detail the various sensors which can be employed for such measurements as well as all the aspects of designing, making, and using a magnetising apparatus. A synthesis of the likely optimal design of a magnetising apparatus is also given, preceded with the full reasoning based on all the research carried out to date. **Characterisation of Soft Magnetic Materials Under Rotational Magnetisation** serves as an excellent starting point for any student having to perform magnetic measurements under rotational magnetisation, but also under 1D, 2D or 3D excitation. Because the methods, sensors, and apparatus are extensively discussed it will also be a great reference for more senior researchers and experts in the field. There is a whole chapter devoted to analysis of measurement uncertainty. This subject is rarely published for magnetic measurements, which makes it more difficult for all researchers to understand the concepts and methodology used in uncertainty estimation. This chapter not only introduces the whole subject, but also provides multiple step-by-step examples which can be easily followed, from very simple cases to much more complex ones. All equations are presented with full SI units which greatly helps in practical application of the presented methodology. Each chapter is written in such a way that it can be studied on its own, so that the reader can focus only on the specific aspects, as

required.

Hands-on Introduction to LabVIEW for Scientists and Engineers IGI Global

This volume contains an archival record of the NATO Advanced Study Institute on Microfluidics Based Microsystems - Fundamentals and Applications held in Çe ?me-Izmir, Turkey, August 23-September 4, 2009. ASIs are intended to be high-level teaching activity in scientific and technical areas of current concern. In this volume, the reader may find interesting chapters and various microsystems fundamentals and applications. As the world becomes increasingly concerned with terrorism, early - spot detection of terrorist's weapons, particularly bio-weapons agents such as bacteria and viruses are extremely important. NATO Public Diplomacy division, Science for Peace and Security section support research, Advanced Study Institutes and workshops related to security. Keeping this policy of NATO in mind, we made such a proposal on Microsystems for security. We are very happy that leading experts agreed to come and lecture in this important NATO ASI. We will see many examples that will show us Microfluidics usefulness for rapid diagnostics following a bioterrorism attack. For the applications in national security and anti-terrorism, microfluidic system technology must meet the challenges. To develop microsystems for security and to provide a comprehensive state-of-the-art assessment of the existing research and applications by treating the subject in considerable depth through lectures from eminent professionals in the field, through discussions and panel sessions are very beneficial for young scientists in the field.

Advanced Interfacing Techniques for Sensors CRC Press

Graphene nanoplatelets (GNPs) have attracted considerable interest due to their exceptional mechanical, electrical, and thermal properties, among others. This book provides a deep review of some aspects related to the characterization of GNPs and their applications as nanoreinforcements for different types of matrices such as polymeric- or cement-based matrices. In this book, the reader will find how these nanoparticles could be used for several industrial applications such as energy production and storage or effective barrier coatings, providing a wide overview of future

progress in this topic

Thermosetting Polymers Springer

Select more accurate liquid crystal (LC) mixtures for various applications and design better performing liquid crystal devices (LCD)s in less time with this practical resource that provides an expert account of the fundamental physics of LCs and its practical application to device design. *Liquid Crystal Devices: Physics and Applications* provides engineers, physicists, and device designers with the most up-to-date descriptions of the dielectric, optical, and viscoelastic properties of LCs, including their relation to molecular structure, mixture content, and material characteristics

Graphene Nanoplatelets Springer

Renowned for its superb invention, ingenuity, and sense of pattern, Japanese design has long been admired in the West. One specific kind of ornamentation, known as "mon," is especially recognized for its unusually rhythmic and engrossing patterns. Originally designed to serve as family emblems or crests, "mon" have also been used in Japan as trademarks and for decorating such objects as kimonos and lacquered furniture. This volume presents 800 of these attractive, copyright-free designs, ready for use or adaptation by today's commercial artists, craftspeople, and designers. Combining stylized natural and geometric forms to produce striking images, "mon" lend themselves to a wide range of applications: textile and wallpaper design, floor coverings, jewelry, mosaics, and much more. A special feature of this book is the inclusion of a number of designs by the great artist Hokusai, selected from an extremely rare edition originally published in 1824. In addition, the collection contains figures based on written characters, geometrical pattern construction, kimonos, and other motifs. Jack Hillier, a well-known author and

authority on Japanese art, has provided an informative and enlightening introduction to this exciting and useful design form. Dover (1994) republication of designs and English text from the work published by University of Toronto Press, Toronto, and Amstutz de Clivo Press, Zurich.

Measurement and Instrumentation Elsevier
Cellulolytic Enzyme Production and Enzymatic Hydrolysis for Second-Generation Bioethanol Production, by Mingyu Wang, Zhonghai Li, Xu Fang, Lushan Wang and Yinbo Qu
Bioethanol from Lignocellulosic Biomass, by Xin-Qing Zhao, Li-Han Zi, Feng-Wu Bai, Hai-Long Lin, Xiao-Ming Hao, Guo-Jun Yue and Nancy W. Y. Ho
Biodiesel From Conventional Feedstocks, by Wei Du and De-Hua Liu
Establishing Oleaginous Microalgae Research Models for Consolidated Bioprocessing of Solar Energy, by Dongmei Wang, Yandu Lu, He Huang and Jian Xu
Biobutanol, by Hongjun Dong, Wenwen Tao, Zongjie Dai, Liejian Yang, Fuyu Gong, Yanping Zhang and Yin Li
Branched-Chain Higher Alcohols, by Bao-Wei Wang, Ai-Qin Shi, Ran Tu, Xue-Li Zhang, Qin-Hong Wang and Feng-Wu Bai
Advances in Biogas Technology, by Ai-Jie Wang, Wen-Wei Li and Han-Qing Yu
Biohydrogen Production from Anaerobic Fermentation, by Ai-Jie Wang, Guang-Li Cao and Wen-Zong Liu
Microbial Fuel Cells in Power Generation and Extended Applications, by Wen-Wei Li and Guo-Ping Sheng
Fuels and Chemicals from Hemicellulose Sugars, by Xiao-Jun Ji, He Huang, Zhi-Kui Nie, Liang Qu, Qing Xu and George T. Tsao

Flowering Plants. Eudicots John Wiley & Sons
Provides comprehensive coverage of the most recent developments in the theory of non-Archimedean pseudo-differential equations and its application to stochastics and mathematical physics--offering current methods of construction for stochastic

processes in the field of p-adic numbers and related structures. Develops a new theory for parabolic equations over non-Archimedean fields in relation to Markov processes.

The Internet of Things John Wiley & Sons

Solid State Drives (SSDs) are gaining momentum in enterprise and client applications, replacing Hard Disk Drives (HDDs) by offering higher performance and lower power. In the enterprise, developers of data center server and storage systems have seen CPU performance growing exponentially for the past two decades, while HDD performance has improved linearly for the same period. Additionally, multi-core CPU designs and virtualization have increased randomness of storage I/Os. These trends have shifted performance bottlenecks to enterprise storage systems. Business critical applications such as online transaction processing, financial data processing and database mining are increasingly limited by storage performance. In client applications, small mobile platforms are leaving little room for batteries while demanding long life out of them. Therefore, reducing both idle and active power consumption has become critical. Additionally, client storage systems are in need of significant performance improvement as well as supporting small robust form factors. Ultimately, client systems are optimizing for best performance/power ratio as well as performance/cost ratio. SSDs promise to address both enterprise and client storage requirements by drastically improving performance while at the same time reducing power. Inside Solid State Drives walks the reader through all the main topics related to SSDs: from NAND Flash to memory controller (hardware and software), from I/O interfaces (PCIe/SAS/SATA) to reliability, from error correction codes (BCH and LDPC) to encryption, from Flash signal processing to hybrid storage. We hope you enjoy this tour inside Solid State Drives.

Japanese Emblems and Designs Courier Corporation

Process Identification and PID Control enables students and researchers to understand the basic concepts of feedback control, process identification, autotuning as well as design and implement feedback controllers, especially, PID controllers. The first two parts introduce the basics of process control and

dynamics, analysis tools (Bode plot, Nyquist plot) to characterize the dynamics of the process, PID controllers and tuning, advanced control strategies which have been widely used in industry. Also, simple simulation techniques required for practical controller designs and research on process identification and autotuning are also included. Part 3 provides useful process identification methods in real industry. It includes several important identification algorithms to obtain frequency models or continuous-time/discrete-time transfer function models from the measured process input and output data sets. Part 4 introduces various relay feedback methods to activate the process effectively for process identification and controller autotuning. Combines the basics with recent research, helping novice to understand advanced topics Brings several industrially important topics together: Dynamics Process identification Controller tuning methods Written by a team of recognized experts in the area Includes all source codes and real-time simulated processes for self-practice Contains problems at the end of every chapter PowerPoint files with lecture notes available for instructor use *Basic Troubleshooting Procedures* Springer Nature

This comprehensive book describes modern electrochemistry, from fundamental principles to the methods that can be used to study electrode and electrochemical processes, and finally, at the wide-ranging applications in sensors, industry, corrosion, and bioelectrochemistry. The breadth of coverage ensures that this volume will be valuable not only to undergraduate and graduate students, but also to research workers.

Towards Ubiquitous Low-power Image Processing Platforms McGraw Hill Professional

With contributions from an internationally-renowned group of experts, this book uses a multidisciplinary approach to review recent developments in the field of smart sensor systems, covering important system and design aspects. It examines topics over the

whole range of sensor technology from the theory and constraints of basic elements, physics and electronics, up to the level of application-orientated issues. Developed as a complementary volume to 'Smart Sensor Systems' (Wiley 2008), which introduces the basics of smart sensor systems, this volume focuses on emerging sensing technologies and applications, including: State-of-the-art techniques for designing smart sensors and smart sensor systems, including measurement techniques at system level, such as dynamic error correction, calibration, self-calibration and trimming. Circuit design for sensor systems, such as the design of precision instrumentation amplifiers. Impedance sensors, and the associated measurement techniques and electronics, that measure electrical characteristics to derive physical and biomedical parameters, such as blood viscosity or growth of micro-organisms. Complete sensor systems-on-a-chip, such as CMOS optical imagers and microarrays for DNA detection, and the associated circuit and micro-fabrication techniques. Vibratory gyroscopes and the associated electronics, employing mechanical and electrical signal amplification to enable low-power angular-rate sensing. Implantable smart sensors for neural interfacing in bio-medical applications. Smart combinations of energy harvesters and energy-storage devices for autonomous wireless sensors. Smart Sensor Systems: Emerging Technologies and Applications will greatly benefit final-year undergraduate and postgraduate students in the areas of electrical, mechanical and chemical engineering, and physics. Professional engineers and researchers in the microelectronics industry, including microsystem developers,

will also find this a thorough and useful volume.

Approximate Circuits Springer

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 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

Real World Instrumentation with Python McGraw-Hill Companies

Identify and Solve Key Electric-Power-Quality Problems and Ensure Reliable Power Delivery to All Customers Power Quality in Electrical Systems equips you with the latest engineering techniques for providing power quality to all customers, and includes vital information on manufacturing, data processing, and healthcare facilities. Based on an IEEE Professional Education course, the book is a practice-oriented engineering tutorial for solving key electric-power-quality problems. This skills-building resource is designed to improve job performance by taking you step-by-step through voltage distortion...harmonic current sources...power capacitors...corrections for power-quality problems ...switched-mode power supplies...uninterruptible power supplies...standby power systems...power-quality measurements...and more. Filled with

100 detailed illustrations, Power Quality in Electrical Systems enables you to: Spot and correct key electric-power-quality problems Achieve full compliance with IEEE standards Examine switched-mode power supplies, rectifiers, and other loads that produce interference Catch up on the latest standby power systems Get vital information on power quality for manufacturing, data processing, and healthcare facilities Explore power-quality case studies with problems and worked solutions Inside This Comprehensive Power-Quality Guide • Power-quality standards • Voltage distortion • Harmonics • Harmonic current sources • Power harmonic filters • Switched-mode power supplies • Corrections for power-quality problems • Uninterruptible power supplies • Power-quality events • Standby power systems • Power-quality measurements **Electrochemical Energy Storage for Renewable Sources and Grid Balancing** Walter de Gruyter GmbH & Co KG

Far more than a simple update and revision, the Handbook of Food Spoilage Yeasts, Second Edition extends and restructures its scope and content to include important advances in the knowledge of microbial ecology, molecular biology, metabolic activity, and strategy for the prohibition and elimination of food borne yeasts. The author incorporates new

The Instrument Manual John Wiley & Sons

This book presents the proceedings of the second Vehicle Engineering and Vehicle Industry conference, reflecting the outcomes of theoretical and practical studies and outlining future development trends in a broad field of automotive research. The conference's main themes included design, manufacturing, economic and educational topics.