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CSIE 2011 is an international scientific Congress for distinguished scholars engaged in scientific, engineering and technological research, dedicated to build a platform for exploring and discussing the future of Computer Science and Information Engineering with existing and potential application scenarios. The congress has been held twice, in Los Angeles, USA for the first and in Changchun, China for the second time, each of which attracted a large number of researchers from all over the world. The congress turns out to develop a spirit of cooperation that leads to new friendship for addressing a wide variety of ongoing problems in this vibrant area of technology and fostering more collaboration over the world. The congress, CSIE 2011, received 2483 full paper and abstract submissions from 27 countries and regions over the world. Through a rigorous peer review process, all submissions were refereed based on their quality of content, level of innovation, significance, originality and legibility. 688 papers have been accepted for the international congress proceedings ultimately.

The book begins with an overview of automation history and followed by chapters on PLC, DCS, and SCADA –describing how such technologies have become synonymous in process instrumentation and control. The book then introduces the niche of Fieldbuses in process industries. It then goes on to discuss wireless communication in the automation sector and its applications in the industrial arena. The book also discusses the all-pervading IoT and its industrial cousin, IIoT, which is finding increasing applications in process automation and control domain. The last chapter introduces OPC technology which has strongly emerged as a defacto

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standard for interoperable data exchange between multi-vendor software applications and bridges the divide between heterogeneous automation worlds in a very effective way.

Key features: Presents an overall industrial automation scenario as it evolved over the years Discusses the already established PLC, DCS, and SCADA in a thorough and lucid manner and their recent advancements Provides an insight into today's industrial automation field Reviews Fieldbus communication and WSNs in the context of industrial communication Explores IIoT in process automation and control fields Introduces OPC which has already carved out a niche among industrial communication technologies with its seamless connectivity in a heterogeneous automation world

Dr. Chanchal Dey is Associate Professor in the Department of Applied Physics, Instrumentation Engineering Section, University of Calcutta. He is a reviewer of IEEE, Elsevier, Springer, Acta Press, Sage, and Taylor & Francis Publishers.

He has more than 80 papers in international journals and conference publications. His research interests include

intelligent process control using conventional, fuzzy, and neuro-fuzzy techniques. Dr. Sunit Kumar Sen is an ex-

professor, Department of Applied Physics, Instrumentation Engineering Section, University of Calcutta. He was a

coordinator of two projects sponsored by AICTE and UGC, Government of India. He has published around 70 papers in

international and national journals and conferences and has published three books – the last one was published by CRC

Press in 2014. He is a reviewer of Measurement, Elsevier. His field of interest is new designs of ADCs and DACs.

Electrical Systems and Equipment is the work of some 50 electrical design specialists in the power engineering field

based largely on the work and experience of GDCD's (Generation Development and Constructor Division of the

CEGB) Electrical Branch. The volume describes the design

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philosophies and techniques of power engineering, the solutions to the large number of design problems encountered and the plant which has been chosen and developed to equip electrical systems both within the different types of new power station, and modification tasks at existing stations.

Volume is indexed by Thomson Reuters CPCI-S (WoS). Precision engineering and micro/nano technologies have been developing rapidly in recent years, and are set to become the dominant players in a new industrial revolution of the 21st century. They will not only provide new possibilities for exponential development of the global economy, but also cause a revolution in human understanding.

These proceedings showcase the best papers selected from more than 500 submissions, and introduce readers to the hottest research topics and the latest developmental trends in the theory and application of MMESE. The integrated and advanced science research topic Man-Machine-Environment System Engineering (MMESE) was first established in China by Professor Shengzhao Long in 1981, with direct support from one of the greatest modern Chinese scientists, Xuesen Qian. In a letter to Long from October 22nd, 1993, Qian wrote: "You have created a very important modern science and technology in China!" MMESE primarily focuses on the relationship between Man, Machine and Environment, studying the optimum combination of man-machine-environment systems. In this system, "Man" refers to working people as the subject in the workplace (e.g. operators, decision-makers); "Machine" is the general name for any object controlled by Man (including tools, machinery, computers, systems and technologies), and "Environment" describes the specific working conditions under which Man and Machine interact (e.g. temperature, noise, vibration, hazardous gases etc.). The three main goals of optimizing

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man-machine-environment systems are to ensure safety, efficiency and economy. These proceedings present interdisciplinary studies on essential concepts and methods from physiology, psychology, system engineering, computer science, environmental science, management, education, and other related disciplines. As such, they offer a valuable resource for all researchers and professionals whose work involves interdisciplinary areas touching on MMESE subjects. This volume serves as a timely, practical introduction to the principles of nanotribology and nanomechanics and applications to magnetic storage systems and MEMS/NEMS.

Direct Support and General Support Maintenance Manual for Position and Azimuth Determining System AN/USQ-70 Part No. 880500-1, NSN 6675-01-071-5552 Functional Reverse Engineering of Strategic and Non-Strategic Machine Tools CRC Press

Ultrasonics International 91 is a documentation of conference proceedings that discusses the status and future of acoustic microscopy and its application to materials research, especially focusing on its quantitative analyses. Acoustic microscopy, using focused waves, has been receiving increased attention as a technology applicable to materials characterization at the microscopic scale. In acoustic microscopy, the excitation and propagation of leaky surface acoustic waves (LSAWs) in the environment of the coupling liquid at the solid specimens are observed. Three types of the systems have been

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developed: point-focus-beam (PFB), line-focus-beam (LFB), and directional PFB acoustic microscopes. In this paper, a brief history of the practical developments is first presented, followed by LFB acoustic microscopy for quantitative material characterization and some applications concerned with characterization of elastic anisotropy and inhomogeneity of electronic materials, such as LiNbO₃ and LiTaO₃ single crystals, and thin-film characterization. This book gives a comprehensive account of the majority of the oral and poster contributions made during the conference, and makes a valuable addition to a student or researchers' ultrasonic literature.

This proceedings book presents selected papers from the 5th Conference on Signal and Information Processing, Networking and Computers (ICSINC), held in Yuzhou, China, from November 29 to December 1, 2018. It focuses on the current research in a wide range of areas in the fields of information theory, communication systems, computer science, signal processing, aerospace technologies, and other related technologies. With contributions from experts from both academia and industry, it is a valuable resource for anyone who is interested in this field.

There are three primary goals that this book wishes to achieve: (1) Herein is the most prevalent standardized electrical calculations for use in

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reducing redundancy in the work effort, reducing repetitive errors, and freeing up more time for productive and innovative and imaginative engineering solutions. (2) Providing a standardized checklist worksheet for field survey work of existing conditions to help facilitate obtaining all the necessary materials the first time around and without errors and omissions. And (2) the maximum security achievable for our highly classified facilities that we are dependent upon for our survival. Four secondary goals we wish to achieve are (1) various methods for conserving energy and resources, (2) the evaluation of life cycle of energy-saving design techniques and equipment selection, (3) the use of a standardized value engineering (VE) guide when performing value engineering workshops, and (4) employing various A and E, VE methods that can be employed for reducing first costs, operating costs, and life cycle costs (LCCs), all the while conserving energy and resources.

The two volumes IFIP AICT 545 and 546 constitute the refereed post-conference proceedings of the 11th IFIP WG 5.14 International Conference on Computer and Computing Technologies in Agriculture, CCTA 2017, held in Jilin, China, in August 2017. The 100 revised papers included in the two volumes were carefully reviewed and selected from 282 submissions. They cover a wide range of interesting theories and applications of information technology in agriculture. The

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papers focus on four topics: Internet of Things and big data in agriculture, precision agriculture and agricultural robots, agricultural information services, and animal and plant phenotyping for agriculture.

This book presents high-quality papers from the Seventh Asia International Symposium on Mechatronics (AISM 2019). It discusses the latest technological trends and advances in electromechanical coupling and environmental adaptability design for electronic equipment, sensing and measurement, mechatronics in manufacturing and automation, micro-mechatronics, energy harvesting & storage, robotics, automation and control systems. It includes papers based on original theoretical, practical and experimental simulations, development, applications, measurements, and testing. The applications and solutions discussed here provide excellent reference material for future product developments.

Discusses Uses for the Microcomputer, Including Projects & Methods for Interfacing the Personal Computer with Its Environment

the 10th anniversary of Chinese Journal of Construction Machinery. In order to celebrate the 20th anniversary of the association and the 10th anniversary of the journal, we will hold the following activities this year. 1. Continue to convene the fourth International Conference Symposium of 2013 on Construction Machinery and Vehicle Engineering Research Progress. 2. Continue to convene the fifth National Mechanical Engineering Doctoral Forum. This forum will be held in Xuzhou and the time is from August 20 to August 24 in 2013. 3. The

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highlevel expert forum will be held during Changsha Engineering Machinery Parts Expo. A dialogue will be taken on the issues of industry scientific innovation, accessories, testing and quality among universities, research institutes and enterprises. 4. The celebrations about the 20th anniversary of the association and the 10th anniversary of the journal will be conducted in Shanghai. The coun cil of the new editorial board and the executive director is convened for summing up the work of the association since it was founded 20 years ago and the work of the journal since it was founded 10 years ago, and planning for the future development. This International Conference is held in the circumstance of international economic crisis and domestic industrial structure adjustment. In the past year, sales market of construction machinery has been subjected to a certain shocks, and the enterprises have en countered a certain difficulties. For the future, however, I believe that such difficulties are temporary, and the prospect is bright. The construction machinery is to serve the mining and state infrastructure construction, and for China, along with most c ountries in the world which are developing countries, the infrastructure construction is still a significant part in the course of development, and the sound infrastructure will promote the development of their economies, even these countries which are in the leading position in economy development also attach great importance to the improvement of infrastructure. Therefore, construction machinery is indispensable and has a rigid demand. Currently, the international competition has not been only limited to terrestrial, since

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the possession of terrestrial was a foregone conclusion, but there will be more

Design Note Collection, the third book in the Analog Circuit Design series, is a comprehensive volume of applied circuit design solutions, providing elegant and practical design techniques. Design Notes in this volume are focused circuit explanations, easily applied in your own designs. This book includes an extensive power management section, covering switching regulator design, linear regulator design, microprocessor power design, battery management, powering LED lighting, automotive and industrial power design. Other sections span a range of analog design topics, including data conversion, data acquisition, communications interface design, operational amplifier design techniques, filter design, and wireless, RF, communications and network design. Whatever your application -industrial, medical, security, embedded systems, instrumentation, automotive, communications infrastructure, satellite and radar, computers or networking; this book will provide practical design techniques, developed by experts for tackling the challenges of power management, data conversion, signal conditioning and wireless/RF analog circuit design. A rich collection of applied analog circuit design solutions for use in your own designs. Each Design Note is presented in a concise, two-page format, making it easy to read and assimilate. Contributions from the leading lights in analog design, including Bob Dobkin, Jim Williams, George Erdi and Carl Nelson, among others. Extensive sections covering power management, data conversion, signal conditioning, and wireless/RF.

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The predecessor to this book was *A Guide to the Laboratory Use of the Squid Loligo pealei* published by the Marine Biological Laboratory, Woods Hole, Massachusetts in 1974. The revision of this long out of date guide, with the approval of the Marine Biological Laboratory, is an attempt to introduce students and researchers to the cephalopods and particularly the squid as an object of biological research. Therefore, we have decided to expand on its original theme, which was to present important practical aspects for using the squid as experimental animals. There are twenty two chapters instead of the original eight. The material in the original eight chapters has been completely revised. Since more than one method can be used for accomplishing a given task, some duplication of methods was considered desirable in the various chapters. Thus, the methodology can be chosen which is best suited for each reader's requirements. Each subject also contains a mini-review which can serve as an introduction to the various topics. Thus, the volume is not just a laboratory manual, but can also be used as an introduction to squid biology. The book is intended for laboratory technicians, advanced undergraduate students, graduate students, researchers, and all others who want to learn the purpose, methods, and techniques of using squid as experimental animals. This is the reason why the name has been changed to its present title. Preceding the chapters is a list of many of the abbreviations, prefixes, and suffixes used in this volume.

First Published in 2010. Routledge is an imprint of Taylor & Francis, an informa company.

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The 2015 collection will include papers from the following symposia: Alumina and Bauxite Aluminum Alloys: Fabrication, Characterization and Applications Aluminum Processing Aluminum Reduction Technology Cast Shop for Aluminum Production Electrode Technology for Aluminum Production Strip Casting of Light Metals

The book presents recent theoretical and practical information about the field of automation and control. It includes fifteen chapters that promote automation and control in practical applications in the following thematic areas: control theory, autonomous vehicles, mechatronics, digital image processing, electrical grids, artificial intelligence, and electric motor drives. The book also presents and discusses applications that improve the properties and performances of process control with examples and case studies obtained from real-world research in the field. Automation and Control is designed for specialists, engineers, professors, and students. This collection of papers covers many topics in the area of mineral processing, such as: physical enrichment processing; fine particle processing; flotation fundamentals and technology; industrial minerals processing; and waste treatment and utilization.

FLINS, originally an acronym for Fuzzy Logic and Intelligent Technologies in Nuclear Science, is now extended to Computational Intelligence for applied research. The contributions to the 10th of FLINS conference cover state-of-the-art research, development, and technology for computational intelligence systems, both from the foundations and the applications points-of-view.

Activity in the arena of surface chemistry and adhesion aspects in cosmetics is substantial, but the information is

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scattered in many diverse publications media and no book exists which discusses surface chemistry and adhesion in cosmetics in unified manner. This book containing 15 chapters written by eminent researchers from academia and industry is divided into three parts: Part 1: General Topics; Part 2: Surface Chemistry Aspects; and Part 3: Wetting and Adhesion Aspects. The topics covered include: Lip biophysical properties and characterization; use of advanced silicone materials in long-lasting cosmetics; non-aqueous dispersions of acrylate copolymers in lipsticks; cosmetic oils in Lipstick structure; chemical structure of the hair surface, surface forces and interactions; AFM for hair surface characterization; application of AFM in characterizing hair, skin and cosmetic deposition; SIMS as a surface analysis method for hair, skin and cosmetics; surface tensiometry approach to characterize cosmetic products; spreading of hairsprays on hair; color transfer from long-wear face foundation products; interaction of polyelectrolytes and surfactants on hair surfaces; cosmetic adhesion to facial skin; and adhesion aspects in semi-permanent mascara; lipstick adhesion measurement.

This book describes capacity building in strategic and non-strategic machine tool technology. It includes machine building in sectors such as machine tools, automobiles, home appliances, energy, and biomedical engineering, along with case studies. The book offers guidelines for capacity building in academia, covering how to promote enterprises of functional reverse engineering enterprises. It also discusses machine tool development, engineering design, prototyping of strategic, and non-strategies machine tools, as well as presenting communication strategies and IoT, along with case studies. Professionals from the CNC (Computer Numeric Control) machine tools industry, industrial and manufacturing engineers, and students and faculty in engineering disciplines

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will find interest in this book.

This book provides an excellent illustration of the interrelationship between progress in scientific methodology and conceptual advances, and its publication should contribute to further advances. It is well known that major advances in understanding often follow the development of new methods. The development of the acetylene reduction assay for nitrogenase activity provides a good example of this interrelationship between theory and methods. Theoretical knowledge led to a search for substrates for nitrogenase that could be assayed for more easily than ammonium, the normal product of the enzyme. The discovery of the reduction of acetylene to ethylene by nitrogenase provided the ideal answer to the problem by providing a rapid, specific, nondestructive, and inexpensive assay for nitrogenase activity. This assay is now used by almost every laboratory doing research on nitrogen fixation. However, further use and development of the acetylene reduction assay has shown that it can underestimate nitrogenase activity and can even give incorrect relative values under some circumstances. The major problem is that exposure of legume nodules to acetylene can cause a large increase in the resistance to oxygen diffusion into the nodule. This reduced supply of oxygen decreases the rate of nitrogenase activity within a few minutes.

This volume includes extended and revised versions of a set of selected papers from the International Conference on Electric and Electronics (EEIC 2011), held on June 20-22, 2011, which is jointly organized by Nanchang University, Springer, and IEEE IAS Nanchang Chapter. The objective of EEIC 2011 Volume 1 is to provide a major interdisciplinary forum for the presentation of new approaches from Electronics and Signal Processing, to foster integration of the latest developments in scientific research. 133 related topic

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papers were selected into this volume. All the papers were reviewed by 2 program committee members and selected by the volume editor Prof. Wensong Hu. We hope every participant can have a good opportunity to exchange their research ideas and results and to discuss the state of the art in the areas of the Electronics and Signal Processing.

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