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Computing Methodologies -- Text Processing.

Volumes CCIS 51 and LNCS 5812 constitute the proceedings of the Fourth International Symposium on Intelligence Computation and Applications, ISICA 2009, held in Huangshi, China, during October 23-25. ISICA 2009 attracted over 300 submissions. Through rigorous reviews, 58 papers were included in LNCS 5821, and 54 papers were collected in CCIS 51. ISICA conferences are one of the first series of international conferences on computational intelligence that combine elements of learning, adaptation, evolution and fuzzy logic to create programs as alternative solutions to artificial intelligence.

Electrokinetic phenomena, motion caused by an applied electric field, can be used to separate molecules based on charge as in capillary electrophoresis, or pump liquids with electroosmosis. As microfluidic devices are becoming more advanced, involving multiple stages (sequential reactions) and requiring smaller amounts of reagent, the demand for precise fluid control and integrated electrodes increases. One of the main reasons for developing lab-on-a-chip devices is the realization of decentralized diagnostics, allowing patients to be monitored without going to a hospital or diagnosed in situations where healthcare infrastructure is not available. The first paper of this thesis investigates the differences in characteristics between an electroosmotic pump with metal electrodes and one using electrochemically active polymer electrodes. With metal electrodes reactions normally take place at the metal/electrolyte interface where the electrolyte or species therein are either reduced or oxidized to maintain an electric current. For water-based electrolytes the electrolysis of water produces pH altering species and gas, which can interfere with microfluidic systems. As electrochemically active electrodes can themselves be reduced or oxidized, the amount of undesired reactions at the polymer/electrolyte interface can be significantly decreased. The second and third papers investigate the use of porous potassium monoliths as electroosmotic pumps in microfluidic devices using electrochemically active electrodes. Porous potassium silicate monoliths were created inside fused silica capillaries in order to increase the pumps resistance to pressure driven flow. Potassium silicate structures without a fused silica capillary as a scaffold were produced in molds of polydimethylsiloxane. Asymmetric pumping properties of these stand-alone monolith was sometimes observed. Monoliths were produced in conical molds in an attempt to increase the asymmetric behavior.

Building prototypes and models is an essential component of any design activity. Modern product development is a multi-disciplinary effort that relies on prototyping in order to explore new ideas and test them sufficiently before they become actual products. Prototyping and Modelmaking for Product Designers illustrates how prototypes are used to help designers understand problems better, explore more imaginative solutions, investigate human interaction more fully and test functionality so as to de-risk the design process. Following an introduction on the purpose of prototyping, specific materials, tools and techniques are examined in detail, with step-by-step tutorials and industry examples of real and successful products illustrating how prototypes are used to help solve design problems. Workflow is also discussed, using a mixture of hands-on and digital tools. A comprehensive modern prototyping approach is crucial to making informed design decisions, and forms a strategic part of a successful designer's toolkit.

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Advances in Hydrochloric Acid Research and Application: 2013 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about ZZZAdditional Research in a concise format. The editors have built Advances in Hydrochloric Acid Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about ZZZAdditional Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Advances in Hydrochloric Acid Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Supplement to 3d ed. called Selected characteristics of occupations (physical demands, working conditions, training time) issued by Bureau of Employment Security.

This book will show you how to use your Arduino to control a variety of different robots, while providing step-by-step instructions on the entire robot building process. You'll learn Arduino basics as well as the characteristics of different types of motors used in robotics. You also discover controller methods and failsafe methods, and learn how to apply them to your project. The book starts with basic robots and moves into more complex projects, including a GPS-enabled robot, a robotic lawn mower, a fighting bot, and even a DIY Segway-clone.

Introduction to the Arduino and other components needed for robotics Learn how to build motor controllers Build bots from simple line-following and bump-sensor bots to more complex robots that can mow your lawn, do battle, or even take you for a ride Please note: the print version of this title is black & white; the eBook is full color.

Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle.

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PIGMENTS VARNISHES AND LACQUERS PRINTING INK PAPER

TECHNOLOGY ADHESIVES CHEMISTRY OF PHOTOGRAPHY PHOTO

POLYMER PLATES METALS FOR PLATE MAKING PRESS ROLLERS

FOUNTAIN SOLUTIONS Review Questions Additional Reading Glossary Index

This volume brings together all the successful peer-reviewed papers submitted for the proceedings of the 43rd conference on Computer Applications and Quantitative Methods in Archaeology that took place in Siena (Italy) from March 31st to April 2nd 2015.

Fierce global competition in manufacturing has made proficient facilities planning a mandatory issue in industrial engineering and technology. From plant layout and materials handling to quality function deployment and design considerations, Manufacturing Facilities: Location, Planning, and Design, Third Edition covers a wide range of topics crucial to the efficiency of a well-planned facility. Proper Planning Thoroughly updated and revised, the third edition of this classic volume

provides the information and analytical tools necessary to move from product designs to production plans and then details all of the planning techniques needed to build a manufacturing facility where safety, efficiency, and profit are interdependent. Divided into two parts, the first section describes all the factors involved in setting up a manufacturing plant. It covers product design, the choice of manufacturing processes, and plant layout, as well as production, material-handling, and storage systems. The author also highlights the importance of the selection of labor resources. Proper Location The second part examines subjective aspects, such as how to maximize efficiency and save resources. It discusses how to choose the best location and how to assign customers to each facility to minimize the overall cost of operation. It also reviews the process of selecting sites for proximity to emergency service facilities, and explains how to determine the best layout within a building for tool rooms, materials, machining, shipping, inspection, and other departments. Proper Attitude Wise planning results in efficient allocation of available resources for any project. This comprehensive reference empowers engineers, facility planners, and students in manufacturing programs to effectively develop both the method and the mindset required to create an efficient and integrated production facility.

Margaret Miller offers a new perspective for settings using traditional blocks. You'll find hundreds of ideas for combining simple but unexpected designs, easy piecing, and a bit of fabric savvy.

Provides the state-of-the-art on wearable technology for smart clothing The book gives a coherent overview of recent development on flexible electronics for smart clothing with emphasis on wearability and durability of the materials and devices. It offers detailed information on the basic functional components of the flexible and wearable electronics including sensing, systems-on-a-chip, interacting, and energy, as well as the integrating and connecting of electronics into textile form. It also provides insights into the compatibility and integration of functional materials, electronics, and the clothing technology. Flexible and Wearable Electronics for Smart Clothing offers comprehensive coverage of the technology in four parts. The first part discusses wearable organic nano-sensors, stimuli-responsive electronic skins, and flexible thermoelectrics and thermoelectric textiles. The next part examines textile triboelectric nanogenerators for energy harvesting, flexible and wearable solar cells and supercapacitors, and flexible and wearable lithium-ion batteries. Thermal and humid management for next-generation textiles, functionalization of fiber materials for washable smart wearable textiles, and flexible microfluidics for wearable electronics are covered in the next section. The last part introduces readers to piezoelectric materials and devices based flexible bio-integrated electronics, printed electronics for smart clothes, and the materials and processes for stretchable and wearable e-textile devices. -Presents the most recent developments in wearable technology such as wearable nanosensors, logic circuit, artificial intelligence, energy harvesting, and wireless communication -Covers the flexible and wearable electronics as

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essential functional components for smart clothing from sensing, systems-on-a-chip, interacting, energy to the integrating and connecting of electronics -Of high interest to a large and interdisciplinary target group, including materials scientists, textile chemists, and electronic engineers in academia and industry Flexible and Wearable Electronics for Smart Clothing will appeal to materials scientists, textile industry professionals, textile engineers, electronics engineers, and sensor developers.

An introduction to over forty crafts, with easy-to-understand instructions providing novices with professional help in creating inventive objects

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