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*Who's Who in Science and Engineering*  
2008-2009 World Bank Publications

This volume explores the latest techniques and workflow for the analysis of single cells metabolism. The chapters in this book cover topics such as the development of mass spectrometry-based single cell approaches, Pico-ESI-MS for single-cell metabolomics analysis; laser capture microdissection; ambient single cell metabolite profile (DESI and LAESI); and MALDI-MS methodology, quantum dots for quantitative cytology to study metabolic heterogeneity of single cells. Written in the highly successful *Methods in Molecular Biology* series format, the chapters consist of introductions to the topic, lists of the necessary materials and reagents, step-by-step guidelines, readily reproducible

laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Comprehensive and authoritative, *Single Cell Metabolism: Methods and Protocols* is a valuable resource for any researcher and scientist interested in learning more about this field.

**Moonshadows** Springer  
Technological advances have vastly expanded the market for shrink sleeve labels. Today, full body decoration, 360-degree branding, the potential to decorate complex and intricate shapes, the ability to add tamper evidence, abrasion resistance and waterproof printed images are all possible due to constantly developing technology. With this increase in applications, shrink sleeve label popularity is growing fast, but advancement comes at a cost and the complexities involved in the production of these labels are also on the rise. Shrink sleeve label printing uses a variety of different films, with different degrees of

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shrink capability. Converters need knowledge of each of these films, along with the image distortion processes, and the shrinkability and performance requirements of inks. They must also understand the demands of the seaming process and how printed sleeves perform during shrinkage. This book can improve your shrink sleeve production by guiding you through the film, ink, printing and processing stages. Use the detailed information to improve quality, prevent errors and correct potential faults. Ultimately, you can increase the options offered to your clients and grow your business. Chapters include: An introduction to sleeves and sleeve technology Shrink sleeve substrates and their usage Design and origination for sleeve labels Printing technologies and inks for shrink sleeve decoration Converting heat shrink sleeve labels - slitting, seaming, sheeting 50 and finishing Shrink sleeving - using the right application and shrink tunnel technology Challenges, learnings and the quest for perfection

### Textiles and Fashion MDPI

Handbook of Vegetables and Vegetable Processing, Second Edition is the most comprehensive guide on vegetable technology for processors, producers, and users of vegetables in food manufacturing. This complete handbook contains 42 chapters across two volumes, contributed by field experts from across the world. It provides contemporary

information that brings together current knowledge and practices in the value-chain of vegetables from production through consumption. The book is unique in the sense that it includes coverage of production and postharvest technologies, innovative processing technologies, packaging, and quality management. Handbook of Vegetables and Vegetable Processing, Second Edition covers recent developments in the areas of vegetable breeding and production, postharvest physiology and storage, packaging and shelf life extension, and traditional and novel processing technologies (high-pressure processing, pulse-electric field, membrane separation, and ohmic heating). It also offers in-depth coverage of processing, packaging, and the nutritional quality of vegetables as well as information on a broader spectrum of vegetable production and processing science and technology. Coverage includes biology and classification, physiology, biochemistry, flavor and sensory properties, microbial safety and HACCP principles, nutrient and bioactive properties In-depth descriptions of key processes including, minimal processing, freezing, pasteurization and aseptic processing, fermentation, drying, packaging, and application of new technologies Entire chapters devoted to important aspects of over 20 major commercial vegetables including avocado, table olives, and textured vegetable proteins This important book will appeal to anyone studying or involved in food technology, food science, food packaging, applied nutrition, biosystems and agricultural engineering, biotechnology, horticulture, food biochemistry, plant biology, and postharvest physiology. Small Antennas: Miniaturization Techniques & Applications National Academies Press

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Next-generation small antenna design techniques This authoritative text provides the most up-to-date methods on the theory and design of small antennas, including an extensive survey of small antenna literature published over the past several years. Written by experts at the forefront of antenna research, *Small Antennas: Miniaturization Techniques & Applications* begins with a detailed presentation of small antenna theory--narrowband and wideband--and progresses to small antenna design methods, such as materials and shaping approaches for multiband and wideband antennas. Generic miniaturization techniques are presented for narrowband, multiband, and wideband antennas. Two chapters devoted to metamaterials antennas and methods to achieve optimal small antennas, as well as a chapter on RFID technologies and related antennas, are included in this comprehensive volume. Coverage includes: Small antenna theory and optimal parameters Theory and limits of wideband electrically small antennas Extensive literature survey of small antenna designs Practical antenna miniaturization approaches Conformal wideband antennas based on spirals Negative refractive index (NRI) metamaterial and electromagnetic band gap (EBG) based antennas Small antennas based on magnetic photonic and degenerate band edge crystals Impedance matching for small antennas using passive and active circuits RFID antennas and technology

Diagnosis and Management of Mitochondrial Disorders John Wiley & Sons

The demand for traditional medicines, herbal health products, herbal pharmaceuticals, nutraceuticals, food supplements and herbal cosmetics etc. is increasing globally due to the growing

recognition of these products as mainly non-toxic, having lesser side effects, better compatibility with physiological flora, and availability at affordable prices. In the last century, medical science has made incredible advances all over the globe. In spite of global reorganization and a very sound history of traditional uses, the promotion of traditional medicine faces a number of challenges around the globe, primarily in developed nations. Regulation and safety is the high concern for the promotion of traditional medicine. Quality issues and quality control, pharmacovigilance, scientific investigation and validation, intellectual property rights, and biopiracy are some key issues that restrain the advancement of traditional medicine around the globe. This book contains diverse and unique chapters, explaining in detail various subsections like phytomolecule, drug discovery and modern techniques, standardization and validation of traditional medicine, and medicinal plants, safety and regulatory issue of traditional medicine, pharmaceutical excipients from nature, plants for future. The contents of the book will be useful for the academicians, researchers and people working in the area of traditional medicine.

**Broadband Planar Antennas** Oxford University Press

This Proceedings contains over 260 papers on cutting-edge research presented at the 9th International Conference on Coastal Sediments 2019 (CS19), held in Tampa/St. Petersburg, Florida, USA from May 27-31, 2019. This technical specialty conference is devoted to promoting an interdisciplinary exchange of state-of-the-art knowledge among researchers in the fields of coastal engineering, geology, oceanography, and related disciplines. With the theme of 'Advancing Science & Engineering

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for Resilient Coastal Systems', this Proceedings covers a wide range of research topics on coastal sediment processes from nearshore sediment transport and modelling to beach processes, shore protection, and coastal management.

*Telegraphic Journal and Monthly Illustrated Review of Electrical Science* UNESCO

In the religious systems of ancient Mesopotamia, Egypt, and the Mediterranean, gods and demigods were neither abstract nor distant, but communicated with mankind through signs and active intervention. Men and women were thus eager to interpret, appeal to, and even control the gods and their agents. In *Prayer, Magic, and the Stars in the Ancient and Late Antique World*, a distinguished array of scholars explores the many ways in which people in the ancient world sought to gain access to--or, in some cases, to bind or escape from--the divine powers of heaven and earth. Grounded in a variety of disciplines, including Assyriology, Classics, and early Islamic history, the fifteen essays in this volume cover a broad geographic area: Greece, Egypt, Syria-Palestine, Mesopotamia, and Persia. Topics include celestial divination in early Mesopotamia, the civic festivals of classical Athens, and Christian magical papyri from Coptic Egypt. Moving forward to Late Antiquity, we see how Judaism, Christianity, and Islam each incorporated many aspects of ancient Near Eastern and Graeco-Roman religion into their own prayers, rituals, and conceptions. Even if they no longer conceived of the sun, moon, and the stars as eternal or divine, Christians, Jews, and Muslims often continued to study the movements of the heavens as a map on which divine power could be read. The reader already familiar with studies of ancient religion will find in *Prayer, Magic, and the Stars* both old friends and new faces. Contributors include Gideon Bohak, Nicola Denzey, Jacco Dieleman, Radcliffe Edmonds, Marvin Meyer, Michael G. Morony,

Ian Moyer, Francesca Rochberg, Jonathan Z. Smith, Mark S. Smith, Peter Struck, Michael Swartz, and Kasia Szpakowska. Published as part of Penn State's Magic in History series, *Prayer, Magic, and the Stars* appears at a time of renewed interest in divination and occult practices in the ancient world. It will interest a wide audience in the field of comparative religion as well as students of the ancient world and late antiquity.

*Handbook of Vegetables and Vegetable Processing* Woodhead Publishing

This book provides a detailed guide to neonatal surgery and its related disciplines including: fetal medicine, fetal surgery, radiology, newborn anaesthesia, intensive care, neonatal medicine, medical genetics, pathology, cardiac surgery, and urology. The book aims to cover all the latest advances in newborn surgery, with contributions from the basic sciences and laboratory research to reflect the steady progress in our current working knowledge and understanding of many neonatal surgical disorders. As huge advances have been made in neonatal surgery in the past decades, ethical issues, long term outcomes, and quality of life are also emphasised. This book is an authoritative reference for surgical residents in training, consultant surgeons, general surgeons with an interest in paediatric surgery, neonatologists, paediatricians, intensive care specialists, and nursing staff.

*Trauma Induced Coagulopathy* Academic Press

Approximately 60% of all hospital-associated infections, over one million cases per year, are due to biofilms that have formed on indwelling medical devices. Device-related biofilm infections increase hospital stays and add over one billion dollars/year to U.S. hospitalization costs.

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Since the use and the types of indwelling medical devices commonly used in modern healthcare are continuously expanding, especially with an aging population, the incidence of biofilm infections will also continue to rise. The central problem with microbial biofilm infections of foreign bodies is their propensity to resist clearance by the host immune system and all antimicrobial agents tested to date. In fact, compared to their free floating, planktonic counterparts, microbes within a biofilm are 50 – 500 times more resistant to antimicrobial agents. Therefore, achieving therapeutic and non-lethal dosing regimens within the human host is impossible. The end result is a conversion from an acute infection to one that is persistent, chronic, and recurrent, most often requiring device removal in order to eliminate the infection. This text will describe the major types of device-related infections, and will explain the host, pathogen, and the unique properties of their interactions in order to gain a better understanding of these recalcitrant infections.

#### Shrink Sleeve Technology Springer

This major textbook is designed for students studying textiles and fashion at higher and undergraduate level, as well as those needing a comprehensive and authoritative overview of textile materials and processes. The first part of the book reviews the main types of natural and synthetic fibres and their properties. Part two provides a systematic review of the key processes involved first in converting fibres into yarns and then transforming yarns into fabrics. Part three discusses the range of finishing techniques for fabrics. The final part of the book looks specifically at the transformation of fabric into apparel, from

design and manufacture to marketing. With contributions from leading experts in their fields, this major book provides the definitive one-volume guide to textile manufacture. Provides comprehensive coverage of the types and properties of textile fibres to yarn and fabric manufacture, fabric finishing, apparel production and fashion. Focused on the needs of college and undergraduate students studying textiles or fashion courses. Each chapter ends with a summary to emphasise key points, a comprehensive self-review section, and project ideas are also provided.

#### The Role of Biofilms in Device-Related Infections Springer Nature

The Cowherds, a team of 10 scholars of Buddhist Studies, address the nature of conventional truth as it is understood in the Madhyamaka tradition deriving from Nagarjuna and Candrakarti. They combine textual scholarship with philosophical analysis to elucidate the metaphysical, epistemological and ethical consequences of this doctrine.

#### **Towards an Entrepreneurial Culture for the Twenty-first Century** Woodhead Publishing

The increasing demand for wireless communications has revolutionised the lifestyle of today's society and one of the key components of wireless technology is antenna design. Broadband planar antennas are the newest generation of antennas boasting the attractive features required, such as broad operating bandwidth, low profile, light weight, low cost and ease of integration into arrays or Radio Frequency (RF) circuits, to make them ideal components of modern communications systems. Research into small and broadband antennas has been spurred by the rapid development of portable wireless communication devices such as cell phones, laptops and personal digital assistants. This all-encompassing volume, *Broadband Planar Antennas: Design and Applications*, systematically describes the techniques for all planar antennas from microstrip patch antennas, suspended plate antennas and planar inverted-L/F antennas to planar dipole

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antennas. Also discussed are some of the most recent outcomes such as broadband antenna issues in promising ultra-wideband applications. Clearly describes the fundamentals of planar antennas and categorises them according to their radiation characteristics Introduces the advanced progress in broadband planar antennas for modern wireless communications Includes a wealth of case studies, design guidelines, figures and tables This text is essential reading for antenna, RF and microwave engineers and manufacturers within the telecommunications industry. Its highly accessible approach will also appeal to researchers, postgraduate students and academic lecturers.

*Handbook of Vegetable Preservation and Processing* Springer

In line with the World Declaration on Education for All and the Millennium Goal of halving poverty in the world by the year 2015, education is expected to serve not only the acquisition of academic knowledge but also the preparation of young people for life and work. Secondary education has to meet the challenge of providing skills for successfully dealing with economies and work patterns in transition and changing cultural values. Education that makes young people entrepreneurial in a broad sense would be part of this solution. This volume draws on various experiences in entrepreneurial education around the world. It aims to provoke discussion on such questions as: How can we harness the imagination and entrepreneurial talents of secondary students as assets for development? How should these talents be channelled? What are the contents, subjects, topics that support the entrepreneurial process? What is the best institutional framework for entrepreneurship education? What kind of teacher is needed? How do we systematically measure the performance of entrepreneurship education and training?

**Coastal Sediments 2019 - Proceedings Of**

**The 9th International Conference Elsevier Health Sciences**

Since Schumpeter, economists have argued that vast productivity gains can be achieved by investing in innovation and technological catch-up. Yet, as this volume documents, developing country firms and governments invest little to realize this potential, which dwarfs international aid flows. Using new data and original analytics, the authors uncover the key to this innovation paradox in the lack of complementary physical and human capital factors, particularly firm managerial capabilities, that are needed to reap the returns to innovation investments. Hence, countries need to rebalance policy away from R and D-centered initiatives †“ which are likely to fail in the absence of sophisticated private sector partners †“ toward building firm capabilities, and embrace an expanded concept of the National Innovation System that incorporates a broader range of market and systemic failures. The authors offer guidance on how to navigate the resulting innovation policy dilemma: as the need to redress these additional failures increases with distance from the frontier, government capabilities to formulate and implement the policy mix become weaker. This book is the first volume of the World Bank Productivity Project, which seeks to bring frontier thinking on the measurement and determinants of productivity to global policy makers.

Toxicological Profile for 1,2-dichloropropane CRC Press

This encyclopedic reference work on pharmacognosy covers the study of those natural substances, principally plants, that find a use in medicine. Its popularity and longevity stem from the book's balance between classical (crude and powdered drugs' characterization and examination)

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and modern (phytochemistry and pharmacology) aspects of this branch of science, as well as the editor's recognition in recent years of the growing importance of complementary medicines, including herbal, homeopathic and aromatherapy. No other book provides such a wealth of detail. A reservoir of knowledge in a field where there is a resurgence of interest - plants as a source of drugs are of growing interest both in complementary medicine fields and in the pharmaceutical industry in their search for new 'lead compounds'. Dr Evans has been associated with the book for over 20 years and is a recognised authority in all parts of the world where pharmacognosy is studied, his knowledge and grasp of the subject matter is unique. Meticulously referenced and kept up to date by the editor, new contributors brought in to cover new areas. New chapter on 'Neuroceuticals'. Addition of many new compounds recently added to British Pharmacopoeia as a result of European harmonisation. Considers development in legal control and standardisation of plant materials previously regarded as 'herbal medicines'. More on the study of safety and efficacy of Chinese and Asian drugs. Quality control issues updated in line with latest guidelines (BP 2007).

### Climate Change Adaptation in the Water Sector Springer

"The book before you contains five of the seventeen essays that make up 'Life on the Wrong Side of Town: Sports Edition', which originally appeared as a series in the magazine 'Mondai Shosetsu' ('Problem Novels', published by Tokuma Shoten) in 1975 and was then published as a single volume by Shinhyosha in 1982, the year before Terayama passed away. By adding Moriyama-san's photographs to the text we have constructed a new edition. While putting this project together, I went back to Terayama's words as expressed in many literary forms - haiku, tanka, poetry, ruminations, essays, novels, scripts, theatrical productions and dramas. The enormous volume and quality of his output was overwhelming, but I eventually settled

on this work, 'Life on the Wrong Side of Town: Sports Edition'. The reason lay in this passage from the Afterword. 'This book is a kind of rear window view of the life of what we call sportsmen. From the rear window you can see the river. Sometimes you can see people saying goodbye. But however miserable the view is, you have to keep the rear window open'" --Excerpt from Satoshi Machiguchi's afterword *The Spell Moves On*, published in Daido Moriyama: Terayama (2015).

**The Innovation Paradox** Routledge  
In a world where advanced knowledge is widespread and low-cost labor is readily available, U.S. advantages in the marketplace and in science and technology have begun to erode. A comprehensive and coordinated federal effort is urgently needed to bolster U.S. competitiveness and pre-eminence in these areas. This congressionally requested report by a pre-eminent committee makes four recommendations along with 20 implementation actions that federal policymakers should take to create high-quality jobs and focus new science and technology efforts on meeting the nation's needs, especially in the area of clean, affordable energy: 1) Increase America's talent pool by vastly improving K-12 mathematics and science education; 2) Sustain and strengthen the nation's commitment to long-term basic research; 3) Develop, recruit, and retain top students, scientists, and engineers from both the U.S. and abroad; and 4) Ensure that the United States is the premier place in the world for innovation. Some actions will involve changing existing laws, while others will require financial support that would come from reallocating existing budgets or increasing them. *Rising Above the Gathering Storm* will be of great interest to federal and state government agencies, educators and schools, public decision makers, research sponsors, regulatory analysts, and scholars.

### **Prayer, Magic, and the Stars in the Ancient and Late Antique World** John Wiley & Sons

The purpose of this book is mainly to guide new entrants in the textile field who would like to supervise and manage the various processes

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involved. Chemicals and chemical reactions are not discussed however, as the process parameters and chemicals used vary and this needs to be decided by senior technical personnel. This book does however give general guidelines that are applicable for all and which can be used as a guide for training technical staff. It is not possible to list all the value addition processes practiced worldwide in one book, and hence, an attempt is made to collect details of some of the commonly practiced value addition processes, especially for apparel purposes. The functional treatments given for various technical textiles like medical textiles, protective textiles, industrial textiles, agrotech materials, geotextiles, and sport tech, etc are not covered in this book.

*Rising Above the Gathering Storm* John Wiley & Sons

At present the textile industry produces the majority of its 34 billion square yards of printed textile fabric by screen printing. However as we move into the digital age developments in digital printing of paper are being adapted more and more for the textile market. Inkjet textile printing is growing while growth in analog textile printing remains stagnant. As digital print technologies improve offering faster production and larger cost-effective print runs, digital printing will grow to become the technology that provides the majority of the world's printed textiles. This comprehensive introduction to the subject is broken into five sections. After two introductory chapters, it goes on to look in a number of detailed chapters at printer and print head technologies. The next section examines the printer software required for successful colour design and management. The digital printing colouration process is explored next, with chapters on substrate preparation, pigmented ink, aqueous inkjet ink, pre-treatment and printing on cationized cotton with reactive inks. The book is concluded with three chapters on the design and business aspect of digital printing. Digital printing of textiles contains fundamental technical explanations along with recent research, and is an invaluable guide for product developers, retailers, designers and academic researchers. Provides coverage of all the current developments in digital textile printing Covers important areas such as printer and print head technologies, printer

software, digital printing colouration and design and business for digital printing

*Illinois Services Directory* McGraw Hill Professional

This book addresses a broad range of topics on antennas for space applications. First, it introduces the fundamental methodologies of space antenna design, modelling and analysis as well as the state-of-the-art and anticipated future technological developments. Each of the topics discussed are specialized and contextualized to the space sector. Furthermore, case studies are also provided to demonstrate the design and implementation of antennas in actual applications. Second, the authors present a detailed review of antenna designs for some popular applications such as satellite communications, space-borne synthetic aperture radar (SAR), Global Navigation Satellite Systems (GNSS) receivers, science instruments, radio astronomy, small satellites, and deep-space applications. Finally it presents the reader with a comprehensive path from space antenna development basics to specific individual applications. Key Features: Presents a detailed review of antenna designs for applications such as satellite communications, space-borne SAR, GNSS receivers, science instruments, small satellites, radio astronomy, deep-space applications Addresses the space antenna development from different angles, including electromagnetic, thermal and mechanical design strategies required for space qualification Includes numerous case studies to demonstrate how to design and implement antennas in practical scenarios Offers both an introduction for students in the field and an in-depth reference for antenna engineers who develop space



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antennas This book serves as an excellent reference for researchers, professionals and graduate students in the fields of antennas and propagation, electromagnetics, RF/microwave/millimetrewave systems, satellite communications, radars, satellite remote sensing, satellite navigation and spacecraft system engineering, It also aids engineers technical managers and professionals working on antenna and RF designs. Marketing and business people in satellites, wireless, and electronics area who want to acquire a basic understanding of the technology will also find this book of interest.