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Asia The Lime Structural Analysis, SI Edition Hindu Castes and Sects Multidimensional Approach to Quality of Life Issues Textbook of Thermal Engineering Recent Trends in Image Processing and Pattern Recognition Soil Management Digenetic Trematodes Cadmium: From Toxicity to Essentiality Trends in Molecular Anthropology Disorders of Sleep and Wakefulness in Parkinson's Disease Blockchain for Cybersecurity and Privacy New Approaches to Gall Midge Resistance in Rice

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Volume 11 provides in an authoritative and timely manner in 16 stimulating chapters, written by 40 internationally recognized experts from 11 nations, and supported by more than 2600 references, 35 tables, and over 100 illustrations, many in color, a most up-to-date view on the role of cadmium for life, presently a vibrant research area. MILS-11

covers the bioinorganic chemistry of Cd(II), its biogeochemistry, anthropogenic release into the environment, and speciation in the atmosphere, waters, soils, and sediments. The analytical tools for Cd determination, its imaging in cells, and the use of ^{113}Cd NMR to probe Zn(II) and Ca(II) proteins are summarized, as are Cd(II) interactions with nucleotides, nucleic acids, amino acids, and proteins including metallothioneins. The phytoremediation by Cd(II)-accumulating plants, etc., the toxicology of Cd(II), its damage to mammalian organs, and its role as a carcinogen for humans, are highlighted. This book is a comprehensive and up-to-date resource covering the botany, production and uses of limes. The lime is an important fruit crop throughout citrus producing regions of the world, with its own specific benefits, culture and marketplace, but producers face issues affecting successful cultivation and production. Authored by an international team of experts and presented in full colour throughout, this book is an essential resource for academic researchers and specialist extension workers, in addition to growers and producers involved in the citrus industry. Biology of Ticks is the most comprehensive work on tick biology and tick-borne diseases. This second edition is a multi-authored work, featuring the research and analyses of renowned experts across the globe. Spanning two volumes, the book examines the systematics, biology, structure, ecological adaptations, evolution, genomics and

the molecular processes that underpin the growth, development and survival of these important disease-transmitting parasites. Also discussed is the remarkable array of diseases transmitted (or caused) by ticks, as well as modern methods for their control. This book should serve as a modern reference for students, scientists, physicians, veterinarians and other specialists. Volume I covers the biology of the tick and features chapters on tick systematics, tick life cycles, external and internal anatomy, and others dedicated to specific organ systems, specifically, the tick integument, mouthparts and digestive system, salivary glands, waste removal, salivary glands, respiratory system, circulatory system and hemolymph, fat body, the nervous and sensory systems and reproductive systems. Volume II includes chapters on the ecology of non-nidicolous and nidicolous ticks, genetics and genomics (including the genome of the Lyme disease vector *Ixodes scapularis*) and immunity, including host immune responses to tick feeding and tick-host interactions, as well as the tick's innate immune system that prevents and/or controls microbial infections. Six chapters cover in depth the many diseases caused by the major tick-borne pathogens, including tick-borne protozoa, viruses, rickettsiae of all types, other types of bacteria (e.g., the Lyme disease agent) and diseases related to tick paralytic agents and toxins. The remaining chapters are devoted to tick control using vaccines, acaricides, repellents,

biocontrol, and, finally, techniques for breeding ticks in order to develop tick colonies for scientific study. Mind Myths shows that science can be entertaining and creative. Addressing various topics, this book counterbalances information derived from the media with a 'scientific view'. It contains contributions from experts around the world. Textbook of Clinical Neuropsychiatry provides a comprehensive, encyclopedic and up to date coverage of the complete range of neuropsychiatric disorders. The text is clearly written and well organized, utilizing a consistent and easy to read format throughout. Part I describes the diagnostic assessment of patients and details the interview, mental s Drug use and abuse continues to thrive in contemporary society worldwide and the instance and damage caused by addiction increases along with availability. The Effects of Drug Abuse on the Human Nervous System presents objective, state-of-the-art information on the impact of drug abuse on the human nervous system, with each chapter offering a specific focus on nicotine, alcohol, marijuana, cocaine, methamphetamine, MDMA, sedative-hypnotics, and designer drugs. Other chapters provide a context for drug use, with overviews of use and consequences, epidemiology and risk factors, genetics of use and treatment success, and strategies to screen populations and provide appropriate interventions. The book offers meaningful, relevant and timely information for scientists, health-care professionals and treatment

providers. A comprehensive reference on the effects of drug addiction on the human nervous system Focuses on core drug addiction issues from nicotine, cocaine, methamphetamine, alcohol, and other commonly abused drugs Includes foundational science chapters on the biology of addiction Details challenges in diagnosis and treatment options Driven by new regulations, new market structures, and new energy resources, the smart grid has been the trigger for profound changes in the way that electricity is generated, distributed, managed, and consumed. The smart grid has raised the traditional power grid by using a two-way electricity and information flow to create an advanced, automated power supply network. However, these pioneering smart grid technologies must grow to adapt to the demands of the current digital society. In today's digital landscape, we can access feasible data and knowledge that were merely inconceivable. This Special Issue aims to address the landscape in which smart grids are progressing, due to the advent of pervasive technologies like the Internet of Things (IoT). It will be the advanced exploitation of the massive amounts of data generated from (low-cost) IoT sensors that will become the main driver to evolve the concept of the smart grid, currently focused on infrastructure, towards the digital energy network paradigm, focused on service. Furthermore, collective intelligence will improve the processes of decision making and empower citizens. Original manuscripts

focusing on state-of-the-art IoT networking and communications, M2M communications, cyberphysical system architectures, big data analytics or cloud computing applied to digital energy platforms, including design methodologies and practical implementation aspects, are welcome. Digenetic trematodes constitute a major helminth group that parasitize humans and animals, and are a major cause of morbidity and mortality. The diseases caused by trematodes have been neglected for years, especially as compared with other parasitic diseases. However, the geographical limits and the populations at risk are currently expanding and changing in relation to factors such as growing international markets, improved transportation systems, and demographic changes. This has led to a growing international interest in trematode infections, although factors such as the difficulties entailed in the diagnosis, the complexity of human and agricultural practices, the lack of assessments of the economic costs or the limited number of effective drugs are preventing the development of control measures of these diseases in humans and livestock. In-depth studies are needed to clarify the current epidemiology of these helminth infections and to identify new and specific targets for both effective diagnosis and treatments. The main goal of this book is to present the major trematodes and their corresponding diseases in the framework of modern parasitology, considering matters such

as the application of novel techniques and analysis of data in the context of host-parasite interactions and to show applications of new techniques and concepts for the studies on digenetic trematodes. This is an ideal book for parasitologists, microbiologists, zoologists, immunologists, professional of public health workers, clinicians and graduate and post-graduate students. Winner of the 2012 Colby Award and the first Afghanistan memoir ever to be written by a Marine Harrier pilot, *A Nightmare's Prayer* portrays the realities of war in the twenty-first century, taking a unique and powerful perspective on combat in Afghanistan as told by a former enlisted man turned officer. Lt. Col. Michael "Zak" Franzak was an AV-8B Marine Corps Harrier pilot who served as executive officer of VMA-513, "The Flying Nightmares," while deployed in Afghanistan from 2002 to 2003. The squadron was the first to base Harriers in Bagram in support of Operation Enduring Freedom. But what should have been a standard six-month deployment soon turned to a yearlong ordeal as the Iraq conflict intensified. And in what appeared to be a forgotten war half a world away from home, Franzak and his colleagues struggled to stay motivated and do their job providing air cover to soldiers patrolling the inhospitable terrain. I wasn't in a foxhole. I was above it. I was safe and comfortable in my sheltered cocoon 20,000 feet over the Hindu Kush. But I prayed. I prayed when I heard the muted cries of men who at last understood their

fate. Franzak's personal narrative captures the day-by-day details of his deployment, from family good-byes on departure day to the squadron's return home. He explains the role the Harrier played over the Afghanistan battlefields and chronicles the life of an attack pilot—from the challenges of nighttime, weather, and the austere mountain environment to the frustrations of working under higher command whose micromanagement often exacerbated difficulties. In vivid and poignant passages, he delivers the full impact of enemy ambushes, the violence of combat, and the heartbreaking aftermath. And as the Iraq War unfolded, Franzak became embroiled in another battle: one within himself. Plagued with doubts and wrestling with his ego and his belief in God, he discovered in himself a man he loathed. But the hardest test of his lifetime and career was still to come—one that would change him forever. A stunning true account of service and sacrifice that takes the reader from the harrowing dangers of the cockpit to the secret, interior spiritual struggle facing a man trained for combat, *A Nightmare's Prayer* brings to life a Marine's public and personal trials set against "the fine talcum brown soot of Afghanistan that permeated everything—even one's soul." This three-volume set constitutes the refereed proceedings of the Second International Conference on Recent Trends in Image Processing and Pattern Recognition (RTIP2R) 2018, held in Solapur, India, in December 2018.

The 173 revised full papers presented were carefully reviewed and selected from 374 submissions. The papers are organized in topical sections in the tree volumes. Part I: computer vision and pattern recognition; machine learning and applications; and image processing. Part II: healthcare and medical imaging; biometrics and applications. Part III: document image analysis; image analysis in agriculture; and data mining, information retrieval and applications. This comprehensive volume provides a broad overview of quality of life issues covering a wide geographical region: North America, Europe, parts of Africa, East Asia, and South Asia. Spread over more than 25 chapters, it includes the latest findings from these regions to provide a multidisciplinary account of the major dimensions of quality of life, and therefore has a vast scope. The volume is divided into four thematic parts: theoretical dimension; Demographic dimension; socio-cultural and economic dimensions; and urban and environment related dimensions. Extensive maps, diagrams and tables accompany the discussions and facilitate understanding. This is an indispensable reference and serves the interest of students and scholars of human geography, economics, demography, sociology, anthropology, social work, and philosophy. It is particularly useful for those engaged in further research on quality of life issues. *Nanomaterials for Soil Remediation* provides a comprehensive description on basic knowledge and current research progress in the field of

soil treatment using nanomaterials. Soil pollution refers to the presence of toxic chemicals in soil. Compared with air and water remediations, soil remediation is technically more challenging due to its complex composition. The synergy between engineering and nanotechnology has resulted in rapid developments in soil remediation.

Nanomaterials could offer new routes to address challenging and pressing issues facing soil pollution. This book aims to explore how nanomaterials are used to cleanse polluted soils (organic compounds and heavy metal-contaminated soils) through various nanomaterials-based techniques (chemical/physical/biological techniques and their integrations). Highlights how nanotechnology is being used to more accurately measure soil pollution levels. Discusses how the properties of nanomaterials are being used to make more efficient soil remediation techniques and products. Assesses the practical and regulatory challenges of using different nanomaterial-based products for soil repair. "Contrary to what some people think, an education and background in chemistry prepares you for much more than just a laboratory career. The broad science education, logical and analytical thinking, research methods, and other professional skills are of value to a wide variety of employers, and are essential for a plethora of positions. In addition, those who are interested in chemistry tend to have some similar personality characteristics,

which lead to success in certain types of positions. Realizing these two things opens up a world of possibilities for the professional chemist, and allows the selection of a career path that truly is the best fit for your own personal skills, abilities, and interests." "Each chapter in this book provides background information on a nontraditional field and a variety of positions within that field, including typical tasks, education or training requirements, and personal characteristics that contribute to a successful career. Each chapter also contains detailed profiles of several chemists who have achieved success and personal satisfaction in various types of positions in that field. These interesting and varied career histories explain how these chemists got where they are, details what motivates them, and gives advice for others considering the same path, in both the short and long term." "Specific career fields profiled include communication, chemical information, patents, sales and marketing, business development, regulatory affairs, public policy, safety, human resources, and computers, among others. Along the way you will learn how to seek out and evaluate new career options, so even if none of the careers profiled is right for you, you can continue the exploration on your own until you find the one that is." --Back cover. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. A manual on compost making. Described are:

principles of composting, materials for composting, practical composting processes, uses of composts, environmental aspects, economic and social aspects, education and training of farmers and extension workers. This book is a printed edition of the Special Issue "Structural Design and Properties of Coordination Polymers" that was published in Crystals. This new edition of what has become a standard account of Western expansion and technological dominance includes a new preface by the author that discusses how subsequent developments in gender and race studies, as well as global technology and politics, enter into conversation with his original arguments. Blockchain technology is defined as a decentralized system of distributed registers that are used to record data transactions on multiple computers. The reason this technology has gained popularity is that you can put any digital asset or transaction in the blocking chain, the industry does not matter. Blockchain technology has infiltrated all areas of our lives, from manufacturing to healthcare and beyond. Cybersecurity is an industry that has been significantly affected by this technology and may be more so in the future. Blockchain for Cybersecurity and Privacy: Architectures, Challenges, and Applications is an invaluable resource to discover the blockchain applications for cybersecurity and privacy. The purpose of this book is to improve the awareness of readers about blockchain technology applications for

cybersecurity and privacy. This book focuses on the fundamentals, architectures, and challenges of adopting blockchain for cybersecurity. Readers will discover different applications of blockchain for cybersecurity in IoT and healthcare. The book also includes some case studies of the blockchain for e-commerce online payment, retention payment system, and digital forensics. The book offers comprehensive coverage of the most essential topics, including:

- Blockchain architectures and challenges
- Blockchain threats and vulnerabilities
- Blockchain security and potential future use cases
- Blockchain for securing Internet of Things
- Blockchain for cybersecurity in healthcare
- Blockchain in facilitating payment system security and privacy

This book comprises a number of state-of-the-art contributions from both scientists and practitioners working in the fields of blockchain technology and cybersecurity. It aspires to provide a relevant reference for students, researchers, engineers, and professionals working in this particular area or those interested in grasping its diverse facets and exploring the latest advances on the blockchain for cybersecurity and privacy. Few areas of biomedical research provide greater opportunities for radically new therapies for devastating diseases that have evaded treatment so far than gene therapy. This is particularly true for the brain and nervous system, where gene transfer has become a key technology for basic research and has recently

been translated to human therapy in several landmark clinical trials. *Gene Therapy of the Central Nervous System: From Bench to Bedside* represents the first definitive volume on this subject. Edited by two pioneers of neurological gene therapy, this volume contains contributions by leaders who helped create this field and are expanding the promise of gene therapy for the future of basic and clinical neuroscience. Drawing upon this extensive collective experience, this book provides clear and informative reviews on a variety of subjects of interest to anyone exploring or using gene therapy for neurobiological applications in research and clinical praxis.

- * Presents gene transfer technologies with particular emphases upon novel vehicles, immunological issues and the role of gene therapy in stem cells
- * Discusses preclinical areas that are likely to translate into clinical studies in the near future, including epilepsy, pain and amyotrophic lateral sclerosis
- * Includes "insider" information on technological and regulatory issues which can often limit effective translation of even the most promising idea into clinical use

This book explores the development of nanopesticides and tests of their biological activity against target organisms. It also covers the effects of nanopesticides in the aquatic and terrestrial environments, along with related subjects including fate, behaviour, mechanisms of action and toxicity. Moreover, the book discusses the potential risks of nanopesticides for non-target organisms, as well as regulatory issues and

future perspectives. This book represents the final work of the late Professor C. David Marsden, who was the most influential figure in the field of movement disorders, in terms of his contributions to both research and clinical practice, in the modern era. It was conceived and written by David Marsden and his colleague at the Institute of Neurology, Prof. Ivan Donaldson. It was their intention that this would be the most comprehensive book on movement disorders and also that it would serve as the 'clinical Bible' for the management of these conditions. It provides a masterly survey of the entire topic, which has been made possible only by vast laboratory and bedside experience. *Marsden's Book of Movement Disorders* covers the full breadth of movement disorders, from the underlying anatomy and understanding of basal ganglia function to the diagnosis and management of specific movement disorders, including the more common conditions such as Parkinson's Disease through to rare, and very rare conditions such as Niemann-Pick disease. Chapters follow a structured format with historical overviews, definitions, clinical features, differential diagnosis, investigations and treatment covered in a structured way. It is extensively illustrated with many original photographs and diagrams of historical significance. Among these illustrations are still images of some original film clips of some of Dr. Marsden's patients published here for the first time. Comprehensively referenced and updated by

experts from the Institute of Neurology at Queen Square, this book is a valuable reference for, not just movement disorder specialists and researchers, but also for clinicians who care for patients with movement disorders. HIV/AIDS continues to be one of the most challenging individual and public health concerns of the present day. According to the UNAIDS, nearly 38 million individuals were living with the infection by the end of 2018, while 1.7 million new cases occurred during that same year. In spite of the numerous advances in the development and delivery of antiretroviral agents, both for treatment and prevention, several challenges remain. This book includes original research and review articles on innovative strategies and approaches for the formulation and delivery of anti-HIV drugs, including genetic material and other biopharmaceuticals. Different local and systemic delivery strategies are addressed based on different technologies intended for oral, transdermal, subcutaneous, vaginal, or rectal administration. Authored by eminent

scientists in academia and nonprofit organizations involved in the development of antiretroviral drug products, this collection provides useful information for all those involved in HIV/AIDS treatment and prevention. #1 NEW YORK TIMES BESTSELLER A landmark volume in science writing by one of the great minds of our time, Stephen Hawking's book explores such profound questions as: How did the universe begin—and what made its start possible? Does time always flow forward? Is the universe unending—or are there boundaries? Are there other dimensions in space? What will happen when it all ends? Told in language we all can understand, *A Brief History of Time* plunges into the exotic realms of black holes and quarks, of antimatter and “arrows of time,” of the big bang and a bigger God—where the possibilities are wondrous and unexpected. With exciting images and profound imagination, Stephen Hawking brings us closer to the ultimate secrets at the very heart of creation. Patients with Parkinson's disease commonly struggle with sleep disorders that which

negatively affect their quality of life. *Sleep Considerations in the Management of Parkinson's Disease* provides a comprehensive overview of common sleep issues and related topics in in this complex field. Each chapter begins with a case that describes a typical scenario related to a sleep problem in Parkinson's disease, followed by a discussion of both the sleep problem and the specifics of the case, providing practical, real-world information to help you provide better patient care. Includes concise chapters authored by Dr. Lana Chahine, each carefully reviewed and supplemented by expert contributors in the specific field. Addresses a wide variety of topics including sleep-onset insomnia, nocturnal manifestations of anxiety disorders, REM sleep behavior disorder, restless legs syndrome and periodic limb movements, and excessive daytime sleepiness. Consolidates today's available information and experience in this important area into one convenient resource.

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