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**KEY=PDF - LAUREN WERNER**

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## Neurology in Africa

Cambridge University Press This practical, comprehensive and highly illustrated book will be invaluable to students and doctors of neurology and internal medicine in Africa.

## Power

## A Radical View

## Essential Software Architecture

Springer Science & Business Media Job titles like “Technical Architect” and “Chief Architect” nowadays abound in software industry, yet many people suspect that “architecture” is one of the most overused and least understood terms in professional software development. Gorton’s book tries to resolve this dilemma. It concisely describes the essential elements of knowledge and key skills required to be a software architect. The explanations encompass the essentials of architecture thinking, practices, and supporting technologies. They range from a general understanding of structure and quality attributes through technical issues like middleware components and service-oriented architectures to recent technologies like model-driven architecture, software product lines, aspect-oriented design, and the Semantic Web, which will presumably influence future software systems. This second edition contains new material covering enterprise architecture, agile development, enterprise service bus technologies, RESTful Web services, and a case study on how to use the MeDICi integration framework. All approaches are illustrated by an ongoing real-world example. So if you work as an architect or senior designer (or want to someday), or if you are a student in software engineering, here is a valuable and yet approachable knowledge source for you.

## Neurology in Tropics (e-Book)

## Proceedings of Integrated Intelligence Enable Networks and Computing

## IIENC 2020

Springer Nature This book presents best selected research papers presented at the First International Conference on Integrated Intelligence Enable Networks and Computing (IIENC 2020), held from May 25 to May 27, 2020, at the Institute of Technology, Gopeshwar, India (Government Institute of Uttarakhand Government and affiliated to Uttarakhand Technical University). The book includes papers in the field of intelligent computing. The book covers the areas of machine learning and robotics, signal processing and Internet of things, big data and renewable energy sources.

## Unequal Treatment:

## Confronting Racial and Ethnic Disparities in Health Care (with CD)

National Academies Press Racial and ethnic disparities in health care are known to reflect access to care and other issues that arise from differing socioeconomic conditions. There is, however, increasing evidence that even after such differences are accounted for, race and ethnicity remain significant predictors of the quality of health care received. In *Unequal Treatment*, a panel of experts documents this evidence and explores how persons of color experience the health care environment. The book examines how disparities in treatment may arise in health care systems and looks at aspects of the clinical encounter that may contribute to such

disparities. Patients' and providers' attitudes, expectations, and behavior are analyzed. How to intervene? Unequal Treatment offers recommendations for improvements in medical care financing, allocation of care, availability of language translation, community-based care, and other arenas. The committee highlights the potential of cross-cultural education to improve provider-patient communication and offers a detailed look at how to integrate cross-cultural learning within the health professions. The book concludes with recommendations for data collection and research initiatives. Unequal Treatment will be vitally important to health care policymakers, administrators, providers, educators, and students as well as advocates for people of color.

## Guide for the Care and Use of Laboratory Animals

### Eighth Edition

National Academies Press A respected resource for decades, the Guide for the Care and Use of Laboratory Animals has been updated by a committee of experts, taking into consideration input from the scientific and laboratory animal communities and the public at large. The Guide incorporates new scientific information on common laboratory animals, including aquatic species, and includes extensive references. It is organized around major components of animal use: Key concepts of animal care and use. The Guide sets the framework for the humane care and use of laboratory animals. Animal care and use program. The Guide discusses the concept of a broad Program of Animal Care and Use, including roles and responsibilities of the Institutional Official, Attending Veterinarian and the Institutional Animal Care and Use Committee. Animal environment, husbandry, and management. A chapter on this topic is now divided into sections on terrestrial and aquatic animals and provides recommendations for housing and environment, husbandry, behavioral and population management, and more. Veterinary care. The Guide discusses veterinary care and the responsibilities of the Attending Veterinarian. It includes recommendations on animal procurement and transportation, preventive medicine (including animal biosecurity), and clinical care and management. The Guide addresses distress and pain recognition and relief, and issues surrounding euthanasia. Physical plant. The Guide identifies design issues, providing construction guidelines for functional areas; considerations such as drainage, vibration and noise control, and environmental monitoring; and specialized facilities for animal housing and research needs. The Guide for the Care and Use of Laboratory Animals provides a framework for the judgments required in the management of animal facilities. This updated and expanded resource of proven value will be important to scientists and researchers, veterinarians, animal care personnel, facilities managers, institutional administrators, policy makers involved in research issues, and animal welfare advocates.

## Renewable Energy Integration

### Challenges and Solutions

Springer Science & Business Media This book presents different aspects of renewable energy integration, from the latest developments in renewable energy technologies to the currently growing smart grids. The importance of different renewable energy sources is discussed, in order to identify the advantages and challenges for each technology. The rules of connecting the renewable energy sources have also been covered along with practical examples. Since solar and wind energy are the most popular forms of renewable energy sources, this book provides the challenges of integrating these renewable generators along with some innovative solutions. As the complexity of power system operation has been raised due to the renewable energy integration, this book also includes some analysis to investigate the characteristics of power systems in a smarter way. This book is intended for those working in the area of renewable energy integration in distribution networks.

## Producing Open Source Software

### How to Run a Successful Free Software Project

"O'Reilly Media, Inc." The corporate market is now embracing free, "open source" software like never before, as evidenced by the recent success of the technologies underlying LAMP (Linux, Apache, MySQL, and PHP). Each is the result of a publicly collaborative process among numerous developers who volunteer their time and energy to create better software. The truth is, however, that the overwhelming majority of free software projects fail. To help you beat the odds, O'Reilly has put together Producing Open Source Software, a guide that recommends tried and true steps to help free software developers work together toward a common goal. Not just for developers who are considering starting their own free software project, this book will also help those who want to participate in the process at any level. The book tackles this very complex topic by distilling it down into easily understandable parts. Starting with the basics of project management, it details specific tools used in free software projects, including version control, IRC, bug tracking, and Wikis. Author Karl Fogel, known for his work on CVS and Subversion, offers practical advice on how to set up and use a range of tools in combination with open mailing lists and archives. He also provides several chapters on the essentials of recruiting and motivating developers, as well as how to gain much-needed publicity for your project. While managing a team of enthusiastic developers -- most of whom you've never even met -- can be challenging, it can also be fun. Producing Open Source Software takes this into account, too, as it speaks of the sheer pleasure to be had from working with a motivated team of free software developers.

# Intelligent Systems

## Proceedings of ICMIB 2020

Springer Nature This book features best selected research papers presented at the International Conference on Machine Learning, Internet of Things and Big Data (ICMIB 2020) held at Indira Gandhi Institute of Technology, Sarang, India, during September 2020. It comprises high-quality research work by academicians and industrial experts in the field of machine learning, mobile computing, natural language processing, fuzzy computing, green computing, human-computer interaction, information retrieval, intelligent control, data mining and knowledge discovery, evolutionary computing, IoT and applications in smart environments, smart health, smart city, wireless networks, big data, cloud computing, business intelligence, internet security, pattern recognition, predictive analytics applications in healthcare, sensor networks and social sensing and statistical analysis of search techniques.

## Sustainability in Energy and Buildings 2021

Springer Nature This book contains the proceedings of the 13th KES International Conference on Sustainability and Energy in Buildings 2021 (SEB2021) held in Split, Croatia, during 15-17 September 2021 organized by KES International. SEB21 invited contributions on a range of topics related to sustainable buildings and explored innovative themes regarding sustainable energy systems. The conference formed an exciting chance to present, interact and learn about the latest research and practical developments on the subject. The conference attracted submissions from around the world. Submissions for the Full-Paper Track were subjected to a blind peer-review process. Only the best of these were selected for presentation at the conference and publication in these proceedings. It is intended that this book provides a useful and informative snapshot of recent research developments in the important and vibrant area of sustainability in energy and buildings.

## Harmony Search and Nature Inspired Optimization Algorithms

### Theory and Applications, ICHSA 2018

Springer The book covers different aspects of real-world applications of optimization algorithms. It provides insights from the Fourth International Conference on Harmony Search, Soft Computing and Applications held at BML Munjal University, Gurgaon, India on February 7-9, 2018. It consists of research articles on novel and newly proposed optimization algorithms; the theoretical study of nature-inspired optimization algorithms; numerically established results of nature-inspired optimization algorithms; and real-world applications of optimization algorithms and synthetic benchmarking of optimization algorithms.

## Social and Sustainability Marketing

### A Casebook for Reaching Your Socially Responsible Consumers through Marketing Science

CRC Press "... an important intervention in the conversation around social and ecological sustainability that draws on both micromarketing and macromarketing scholarship to help the reader understand the challenges with illustrations from insightful cases both from emerging and developed economies. This compilation should be essential reading for the discerning student of sustainable consumption and production." -- Professor Pierre McDonagh, Associate Editor, Journal of Macromarketing (USA); Professor of Critical Marketing & Society, University of Bath, UK Experts in the field of economics, management science, and particularly in the marketing domain have always been interested in and acknowledged the importance of sustaining profitable businesses while incorporating societal and environmental concerns; however, the level of existing literature and availability of teaching cases reflect a dearth of real case studies, especially those focused on marketing for social good. This book of actual case studies will address that need. In addition, this book is important and timely in providing a case book for instructors (those in both industry and academia) to help them in teaching and training the next generation of leaders through corporate training and universities. Currently, marketing for social good is increasingly becoming a part of most curriculums under the umbrella of different titles, such as social marketing, green marketing, and sustainability marketing. The relevance of these studies is increasing across the globe. This book is composed of long and short real cases with varying complexity in different sectors. This case book will also cover some review articles for an overview of the recent developments in the study area. With these case studies, collections of questions, teaching materials, and real-life marketing scenarios, this book offers a unique source of knowledge to marketing professionals, students, and educators across the world. The main objective of this case book is to understand the applicability of marketing science (marketing for social good context, such as social marketing and sustainability marketing) in internet marketing related to e-buying behavior and e-WOM. In addition, it illustrates the various types of existing marketing practices that are relevant from both theoretical and practical points of view in this electronic era, as well as discussing other non-electronic marketing practices and focusing on consumer buying behavior. As a result, marketing managers can treat their customers according to their desired value. This book particularly explores the possibilities and advantages created by social marketing and sustainability marketing through the presentation of thorough review articles and case

studies. This case book helps corporate training centers and universities with compact teaching reference materials in their relevant courses.

## Updates on Myopia

This book is open access under a CC BY 4.0 license. This open access book discusses basic clinical concepts of myopia, prevention of progression and surgical treatments for myopia and pathological myopia. It also summarises the latest evidence and best practices for managing myopia, high myopia and its complications. Written by leading experts, the book addresses clinical diagnosis and interpretation of imaging modalities, and various complications of myopia such as glaucoma, choroidal neovascularization, retinal degeneration and cataracts. It is a valuable comprehensive resource for general and sub-specialist ophthalmologists as well as residents and ophthalmologists in training.; This work was published by Saint Philip Street Press pursuant to a Creative Commons license permitting commercial use. All rights not granted by the work's license are retained by the author or authors.

## Proceeding of the Second International Conference on Microelectronics, Computing & Communication Systems (MCCS 2017)

Springer The volume presents high quality papers presented at the Second International Conference on Microelectronics, Computing & Communication Systems (MCCS 2017). The book discusses recent trends in technology and advancement in MEMS and nanoelectronics, wireless communications, optical communication, instrumentation, signal processing, image processing, bioengineering, green energy, hybrid vehicles, environmental science, weather forecasting, cloud computing, renewable energy, RFID, CMOS sensors, actuators, transducers, telemetry systems, embedded systems, and sensor network applications. It includes original papers based on original theoretical, practical, experimental, simulations, development, application, measurement, and testing. The applications and solutions discussed in the book will serve as a good reference material for future works.

## Building Innovation Capabilities for Sustainable Industrialisation

## Renewable Electrification in Developing Economies

Routledge This book argues that renewable electrification in developing countries provides important opportunities for local economic development, but new pathways are required for turning these opportunities into successful reality. Building Innovation Capabilities for Sustainable Industrialisation offers a novel input into the debate on development of capabilities for sustainable industrialisation and delivers key insights for both researchers and policy makers when it comes to the question of how to increase the economic co-benefits of renewables expansion. The chapters in the book use a tailored analytical framework in their studies of renewable electrification efforts in Kenya and other countries in sub-Saharan Africa. They draw on a mix of project, sector and country level case studies to address questions such as: What capabilities are developed through on-going renewable electrification projects in developing economies? How can the expansion of renewable electrification be supported in a way that also encourages sustainable economic development? What role do international linkages (South-South and North-South) play and what role should they play in the greening of energy systems in developing economies? The authors provide a new understanding of how green transformation and sustainable industrialisation can be combined, highlighting the opportunities and constraints for local capability building and the scope for local policy action. This book will be of great interest to students and scholars of development studies, energy studies, sustainability and sustainable development, as well as practitioners and policy makers working in development organisations and national governments.

## Emerging Power Converters for Renewable Energy and Electric Vehicles

## Modeling, Design, and Control

CRC Press This book covers advancements of power electronic converters and their control techniques for grid integration of large-scale renewable energy sources and electrical vehicles. Major emphasis are on transformer-less direct grid integration, bidirectional power transfer, compensation of grid power quality issues, DC system protection and grounding, interaction in mixed AC/DC system, AC and DC system stability, magnetic design for high-frequency high power density systems with advanced soft magnetic materials, modelling and simulation of mixed AC/DC system, switching strategies for enhanced efficiency, and protection and reliability for sustainable grid integration. This book is an invaluable resource for professionals active in the field of renewable energy and power conversion.

# Emerging Trends in Electrical, Communications, and Information Technologies

## Proceedings of ICECIT-2018

Springer Nature This book includes original, peer-reviewed research from the 3rd International Conference on Emerging Trends in Electrical, Communication and Information Technologies (ICECIT 2018), held at Srinivasa Ramanujan Institute of Technology, Ananthapuramu, Andhra Pradesh, India in December 2018. It covers the latest research trends and developments in the areas of Electrical Engineering, Electronic and Communication Engineering, and Computer Science and Information.

## Principles and Practice of Anesthesia for Thoracic Surgery

Springer Science & Business Media Principles and Practice of Anesthesia for Thoracic Surgery will serve as an updated comprehensive review covering not only the recent advances, but also topics that haven't been covered in previously published texts: extracorporeal ventilatory support, new advances in chest imaging modalities, lung isolation with a difficult airway, pulmonary thrombo-endarterectomy, and chronic post-thoracotomy pain. Additionally, the book features clinical case discussions at the end of each clinical chapter as well as tables comprising detailed anesthetic management.

## The Cloud-to-Thing Continuum

## Opportunities and Challenges in Cloud, Fog and Edge Computing

Springer Nature The Internet of Things offers massive societal and economic opportunities while at the same time significant challenges, not least the delivery and management of the technical infrastructure underpinning it, the deluge of data generated from it, ensuring privacy and security, and capturing value from it. This Open Access Pivot explores these challenges, presenting the state of the art and future directions for research but also frameworks for making sense of this complex area. This book provides a variety of perspectives on how technology innovations such as fog, edge and dew computing, 5G networks, and distributed intelligence are making us rethink conventional cloud computing to support the Internet of Things. Much of this book focuses on technical aspects of the Internet of Things, however, clear methodologies for mapping the business value of the Internet of Things are still missing. We provide a value mapping framework for the Internet of Things to address this gap. While there is much hype about the Internet of Things, we have yet to reach the tipping point. As such, this book provides a timely entrée for higher education educators, researchers and students, industry and policy makers on the technologies that promise to reshape how society interacts and operates. Theo Lynn is Full Professor of Digital Business at DCU Business School, Ireland and Director of the Irish Institute of Digital Business. John G. Mooney is Associate Professor of Information Systems and Technology Management at the Pepperdine Graziadio Business School, United States. Brian Lee is Director of the Software Research Institute at Athlone Institute of Technology. Patricia Takako Endo is a Postdoctoral Research Fellow at the Irish Institute of Digital Business, Dublin City University, Ireland, and a Professor at Universidade de Pernambuco, Brazil.

## Jinnah, Pakistan and Islamic Identity

## The Search for Saladin

Routledge Every generation needs to reinterpret its great men of the past. Akbar Ahmed, by revealing Jinnah's human face alongside his heroic achievement, both makes this statesman accessible to the current age and renders his greatness even clearer than before. Four men shaped the end of British rule in India: Nehru, Gandhi, Mountbatten and Jinnah. We know a great deal about the first three, but Mohammed Ali Jinnah, the founder of Pakistan, has mostly either been ignored or, in the case of Richard Attenborough's hugely successful film about Gandhi, portrayed as a cold megalomaniac, bent on the bloody partition of India. Akbar Ahmed's major study redresses the balance. Drawing on history, semiotics and cultural anthropology as well as more conventional biographical techniques, Akbar S. Ahmad presents a rounded picture of the man and shows his relevance as contemporary Islam debates alternative forms of political leadership in a world dominated (at least in the Western media) by figures like Colonel Gaddafi and Saddam Hussein.

## Additively Manufactured Inconel 718

## Microstructures and Mechanical Properties

Linköping University Electronic Press Additive manufacturing (AM), also known as 3D printing, has gained significant interest in aerospace, energy, automotive and medical industries due to its capabilities of manufacturing components that are either prohibitively costly or impossible to manufacture by conventional processes. Among the various additive manufacturing processes for metallic components, electron beam melting (EBM) and selective laser melting (SLM) are two of the most widely used powder bed based processes, and have shown great potential for manufacturing high-end critical components, such as turbine blades and customized medical implants. The futures of the EBM and SLM are doubtlessly promising, but to fully realize their potentials there are still many challenges to overcome. Inconel 718 (IN718) is a nickel-base superalloy and has impressive combination of good mechanical properties and low cost. Though IN718 is being mostly used as a turbine disk material now, the initial introduction of IN718 was to overcome the poor weldability of superalloys in 1960s, since sluggish precipitation of strengthening phases  $\gamma'/?'$  enables good resistance to strain-age cracking during welding or post weld heat treatment. Given the similarity between AM and welding processes, IN718 has been widely applied to the metallic AM field to facilitate the understandings of process-microstructure-property relationships. The work presented in this licentiate thesis aims to better understand microstructures and mechanical properties EBM and SLM IN718, which have not been systematically investigated. Microstructures of EBM and SLM IN718 have been characterized with scanning electron microscopy (SEM), transmission electron microscopy (TEM) and correlated with the process conditions. Monotonic mechanical properties (e.g., Vickers microhardness and tensile properties) have also been measured and rationalized with regards to the microstructure evolutions before and after heat treatments. For EBM IN718, the results show the microstructure is not homogeneous but dependant on the location in the components, and the anisotropic mechanical properties are probably attributed to alignment of porosities rather than texture. Post heat treatment can slightly increase the mechanical strength compared to the as-manufactured condition but does not alter the anisotropy. SLM IN718 shows significantly different microstructure and mechanical properties to EBM IN718. The as-manufactured SLM IN718 has very fine dendritic microstructure and Laves phases in the interdendrites, and is "work-hardened" by the residual strains and dislocations present in the material. Mechanical properties are different between horizontally and vertically built samples, and heat treatment can minimize this difference. Results from this licentiate thesis provide the basis for the further research on the cyclic mechanical properties of EBM and SLM IN718, which would be the focus of following phase of the Ph.D. research.

## Greenhouse Gas Emissions and Terrestrial Ecosystems

Frontiers Media SA

### Pathologic Myopia

Springer Science & Business Media Pathological Myopia is a major cause of severe vision loss worldwide. The mechanisms for vision loss include cataract, glaucoma, retinal detachment, and above all, degeneration of the macula within the posterior staphyloma. Pathological Myopia is one of the only current books to specifically address this disease and discusses recent developments in imaging technologies and various approaches to treatments, such as laser photocoagulation, photodynamic therapy, pharmaco-therapeutic injections in the vitreous, and surgery. Complete with high-quality color images, this book is written and edited by leaders in the field and is geared towards ophthalmologists, including residents and fellows in training, glaucoma and cataract specialists, and vitreoretinal macula experts.

### Cambridge Computing

### The First 75 Years

Third Millenium Pub This is a portrait of a computer laboratory in the 21st century, to coincide with its 75th Anniversary and with 200 years of Cambridge computing.

### Sustainable Polymers from Biomass

John Wiley & Sons Offering a unique perspective summarizing research on this timely important topic around the globe, this book provides comprehensive coverage of how molecular biomass can be transformed into sustainable polymers. It critically discusses and compares a few classes of biomass - oxygen-rich, hydrocarbon-rich, hydrocarbon and non-hydrocarbon (including carbon dioxide) as well as natural polymers - and equally includes products that are already commercialized. A must-have for both newcomers to the field as well as established researchers in both academia and industry.

### Inglorious Empire

### What the British Did to India

Penguin UK The Sunday Times Top 10 bestseller on India's experience of British colonialism, by the internationally-acclaimed author and diplomat Shashi Tharoor 'Tharoor's impassioned polemic slices straight to the heart of the darkness that drives all empires ... laying bare the grim, and high, cost of the British Empire for its former subjects. An essential read' Financial Times In the eighteenth century, India's share of the world economy was as large as Europe's. By 1947, after two centuries of British rule, it had decreased six-

fold. The Empire blew rebels from cannon, massacred unarmed protesters, entrenched institutionalised racism, and caused millions to die from starvation. British imperialism justified itself as enlightened despotism for the benefit of the governed, but Shashi Tharoor takes demolishes this position, demonstrating how every supposed imperial 'gift' - from the railways to the rule of law - was designed in Britain's interests alone. He goes on to show how Britain's Industrial Revolution was founded on India's deindustrialisation, and the destruction of its textile industry. In this bold and incisive reassessment of colonialism, Tharoor exposes to devastating effect the inglorious reality of Britain's stained Indian legacy.

## INDIA'S NEW CAPITALISTS

### Caste, Business, and Industry in a Modern Nation

Hachette UK It's no secret that certain social groups have predominated India's business and trading history, with business traditionally being the preserve of particular 'Bania' communities. However, the past four or so decades have seen a widening of the social base of Indian capital, such that the social profile of Indian business has expanded beyond recognition, and entrepreneurship and commerce in India are no longer the exclusive bastion of the old mercantile castes. In this meticulously researched book - acclaimed for being the first social history to document and understand India's new entrepreneurial groups - Harish Damodaran looks to answer who the new 'wealth creators' are, as he traces the transitional entry of India's middle and lower peasant castes into the business world. Combining analytical rigour with journalistic flair, India's New Capitalists is an essential read for anyone seeking to understand the culture and evolution of business in contemporary South Asia.

## Harmony Search Algorithm

### Proceedings of the 2nd International Conference on Harmony Search Algorithm (ICHSA2015)

Springer The Harmony Search Algorithm (HSA) is one of the most well-known techniques in the field of soft computing, an important paradigm in the science and engineering community. This volume, the proceedings of the 2nd International Conference on Harmony Search Algorithm 2015 (ICHSA 2015), brings together contributions describing the latest developments in the field of soft computing with a special focus on HSA techniques. It includes coverage of new methods that have potentially immense application in various fields. Contributed articles cover aspects of the following topics related to the Harmony Search Algorithm: analytical studies; improved, hybrid and multi-objective variants; parameter tuning; and large-scale applications. The book also contains papers discussing recent advances on the following topics: genetic algorithms; evolutionary strategies; the firefly algorithm and cuckoo search; particle swarm optimization and ant colony optimization; simulated annealing; and local search techniques. This book offers a valuable snapshot of the current status of the Harmony Search Algorithm and related techniques, and will be a useful reference for practising researchers and advanced students in computer science and engineering.

## An Era of Darkness

### The British Empire In India

Rupa Publications In 1930, the American historian and philosopher Will Durant wrote that Britain's 'conscious and deliberate bleeding of India... [was the] greatest crime in all history'. He was not the only one to denounce the rapacity and cruelty of British rule, and his assessment was not exaggerated. Almost thirty-five million Indians died because of acts of commission and omission by the British-in famines, epidemics, communal riots and wholesale slaughter like the reprisal killings after the 1857 War of Independence and the Amritsar massacre of 1919. Besides the deaths of Indians, British rule impoverished India in a manner that beggars belief. When the East India Company took control of the country, in the chaos that ensued after the collapse of the Mughal empire, India's share of world GDP was 23 per cent. When the British left it was just above 3 per cent. The British empire in India began with the East India Company, incorporated in 1600, by royal charter of Her Majesty Queen Elizabeth I, to trade in silk, spices and other profitable Indian commodities. Within a century and a half, the Company had become a power to reckon with in India. In 1757, under the command of Robert Clive, Company forces defeated the ruling Nawab Siraj-ud-Daula of Bengal at Plassey, through a combination of superior artillery and even more superior chicanery. A few years later, the young and weakened Mughal emperor, Shah Alam II, was browbeaten into issuing an edict that replaced his own revenue officials with the Company's representatives. Over the next several decades, the East India Company, backed by the British government, extended its control over most of India, ruling with a combination of extortion, double-dealing, and outright corruption backed by violence and superior force. This state of affairs continued until 1857, when large numbers of the Company's Indian soldiers spearheaded the first major rebellion against colonial rule. After the rebels were defeated, the British Crown took over power and ruled the country ostensibly more benignly until 1947, when India won independence. In this explosive book, bestselling author Shashi Tharoor reveals with acuity, impeccable research, and trademark wit, just how disastrous British rule was for India. Besides examining the many ways in which the colonizers exploited India, ranging from the drain of national resources to Britain, the destruction of the Indian textile, steel-making and shipping industries, and the negative transformation of agriculture, he demolishes the arguments of Western and Indian apologists for Empire on the supposed benefits of British rule, including democracy and political freedom, the rule of law, and the railways. The few unarguable benefits-the English language, tea, and cricket-were never actually intended for the benefit of the colonized but introduced to serve the interests of the

colonizers. Brilliantly narrated and passionately argued, *An Era of Darkness* will serve to correct many misconceptions about one of the most contested periods of Indian history.

## Testosterone

### From Basic to Clinical Aspects

Springer Research on testosterone is increasing in many senses; however there is still much controversy regarding its physiology and clinical use. This book addresses these topics, providing a broad overview about testosterone, from its basic features to the most recent evidence of clinical applicability. Also, specific conditions in which testosterone play a pivotal role are discussed in detail, such as hypogonadism, misuse and abuse, puberty, cardiovascular effects and testosterone therapy. Although not essential for survival, testosterone represents the essence of male biological function, being the important testicular androgen in men. Low serum testosterone levels are associated with cardiovascular morbidity, metabolic syndrome, type 2 diabetes mellitus, atherosclerosis, osteoporosis, sarcopenia, and mortality. Conversely, increased serum levels of testosterone may lead to deleterious events. In general, there is increasing evidence that serum testosterone is a major biomarker status of men's health in general. *Testosterone: From Basic to Clinical Aspects* is an indispensable reference for all those who seek state-of-the-art knowledge regarding this hormone, from basic issues (including pharmacology and physiology) through clinical aspects (related diseases and supplementation therapy).

## The Origins of Yoga and Tantra

### Indic Religions to the Thirteenth Century

Cambridge University Press Yoga, tantra and other forms of Asian meditation are practised in modernized forms throughout the world today, but most introductions to Hinduism or Buddhism tell only part of the story of how they developed. This book is an interpretation of the history of Indic religions up to around 1200 CE, with particular focus on the development of yogic and tantric traditions. It assesses how much we really know about this period, and asks what sense we can make of the evolution of yogic and tantric practices, which were to become such central and important features of the Indic religious scene. Its originality lies in seeking to understand these traditions in terms of the total social and religious context of South Asian society during this period, including the religious practices of the general population with their close engagement with family, gender, economic life and other pragmatic concerns.

## Graph Data Management

### Fundamental Issues and Recent Developments

Springer This book presents a comprehensive overview of fundamental issues and recent advances in graph data management. Its aim is to provide beginning researchers in the area of graph data management, or in fields that require graph data management, an overview of the latest developments in this area, both in applied and in fundamental subdomains. The topics covered range from a general introduction to graph data management, to more specialized topics like graph visualization, flexible queries of graph data, parallel processing, and benchmarking. The book will help researchers put their work in perspective and show them which types of tools, techniques and technologies are available, which ones could best suit their needs, and where there are still open issues and future research directions. The chapters are contributed by leading experts in the relevant areas, presenting a coherent overview of the state of the art in the field. Readers should have a basic knowledge of data management techniques as they are taught in computer science MSc programs.

## Polymer Colloids

Royal Society of Chemistry Academic and industrial research around polymer-based colloids is huge, driven both by the development of mature technologies, e.g. latexes for coatings, as well as the advancement of new materials and applications, such as building blocks for 2D/3D structures and medicine. Edited by two world-renowned leaders in polymer science and engineering, this is a fundamental text for the field. Based on a specialised course by the editors, this book provides the reader with an invaluable single source of reference. The first section describes formation, explaining basic properties of emulsions and dispersion polymerization, microfluidic approaches to produce polymer-based colloids and formation via directed self-assembly. The next section details characterisation methodologies from microscopy and small angle scattering, to surface science and simulations. The final chapters close with applications, including Pickering emulsions and molecular engineering for materials development. A comprehensive guide to polymer colloids, with contributions by leaders in their respective areas, this book is a must-have for researchers and practitioners working across polymers, soft matter and chemical and molecular engineering.

## Placing London

## From Imperial Capital to Global City

Berghahn Books London continues to fascinate a vast audience across the world, and an extensive, diverse literature now exists describing and analyzing this metropolis. The central question - what is London? - has produced many answers but none of them, the author argues, uncovers the complex ways in which knowledge is constructed in the diverse attempts to represent places and people. On the contrary: a gulf has opened up between analysis of contemporary London as a global, postcolonial city, on the one hand, and historical accounts of the imperial capital on the other. The author shows how the gap can be bridged by combining an analysis of the representation over time by various experts of London and certain localities with an investigation of the ways in which residents have represented their communities through struggles over symbolic and material resources.

## Smart Grid

## Fundamentals of Design and Analysis

John Wiley & Sons The book is written as primer hand book for addressing the fundamentals of smart grid. It provides the working definition the functions, the design criteria and the tools and techniques and technology needed for building smart grid. The book is needed to provide a working guideline in the design, analysis and development of Smart Grid. It incorporates all the essential factors of Smart Grid appropriate for enabling the performance and capability of the power system. There are no comparable books which provide information on the "how to" of the design and analysis. The book provides a fundamental discussion on the motivation for the smart grid development, the working definition and the tools for analysis and development of the Smart Grid. Standards and requirements needed for designing new devices, systems and products are discussed; the automation and computational techniques need to ensure that the Smart Grid guarantees adaptability, foresight alongside capability of handling new systems and components are discussed. The interoperability of different renewable energy sources are included to ensure that there will be minimum changes in the existing legacy system. Overall the book evaluates different options of computational intelligence, communication technology and decision support system to design various aspects of Smart Grid. Strategies for demonstration of Smart Grid schemes on selected problems are presented.

## Confocal Microscopy

## Methods and Protocols

Springer Science & Business Media In Confocal Microscopy Methods and Protocols, Stephen Paddock and a highly skilled panel of experts lead the researcher using confocal techniques from the bench top, through the imaging process, to the journal page. They concisely describe all the key stages of confocal imaging—from tissue sampling methods, through the staining process, to the manipulation, presentation, and publication of the realized image. Written in a user-friendly, nontechnical style, the methods specifically cover most of the commonly used model organisms: worms, sea urchins, flies, plants, yeast, frogs, and zebrafish. Centered in the many biological applications of the confocal microscope, the book makes possible the successful imaging of both fixed and living specimens using primarily the laser scanning confocal microscope. The powerful hands-on methods collected in Confocal Microscopy Methods and Protocols will help even the novice to produce first-class cover-quality confocal images.

## Advances in Chitin/Chitosan Characterization and Applications

MDPI Functional advanced biopolymers have received far less attention than renewable biomass (cellulose, rubber, etc.) used for energy production. Among the most advanced biopolymers known is chitosan. The term chitosan refers to a family of polysaccharides obtained by partial de-N-acetylation from chitin, one of the most abundant renewable resources in the biosphere. Chitosan has been firmly established as having unique material properties as well as biological activities. Either in its native form or as a chemical derivative, chitosan is amenable to being processed—typically under mild conditions—into soft materials such as hydrogels, colloidal nanoparticles, or nanofibers. Given its multiple biological properties, including biodegradability, antimicrobial effects, gene transfectability, and metal adsorption—to name but a few—chitosan is regarded as a widely versatile building block in various sectors (e.g., agriculture, food, cosmetics, pharmacy) and for various applications (medical devices, metal adsorption, catalysis, etc.). This Special Issue presents an updated account addressing some of the major applications, including also chemical and enzymatic modifications of oligos and polymers. A better understanding of the properties that underpin the use of chitin and chitosan in different fields is key for boosting their more extensive industrial utilization, as well as to aid regulatory agencies in establishing specifications, guidelines, and standards for the different types of products and applications.

## International Conference on Computer Networks and

# Communication Technologies

## ICCNCT 2018

The book features research papers presented at the International Conference on Computer Networks and Inventive Communication Technologies (ICCNCT 2018), offering significant contributions from researchers and practitioners in academia and industry. The topics covered include computer networks, network protocols and wireless networks, data communication technologies, and network security. Covering the main core and specialized issues in the areas of next-generation wireless network design, control, and management, as well as in the areas of protection, assurance, and trust in information security practices, these proceedings are a valuable resource, for researchers, instructors, students, scientists, engineers, managers, and industry practitioners..

## Advances in Computing and Information Technology

### Proceedings of the Second International Conference on Advances in Computing and Information Technology (ACITY) July 13-15, 2012, Chennai, India -

Springer Science & Business Media The international conference on Advances in Computing and Information technology (ACITY 2012) provides an excellent international forum for both academics and professionals for sharing knowledge and results in theory, methodology and applications of Computer Science and Information Technology. The Second International Conference on Advances in Computing and Information technology (ACITY 2012), held in Chennai, India, during July 13-15, 2012, covered a number of topics in all major fields of Computer Science and Information Technology including: networking and communications, network security and applications, web and internet computing, ubiquitous computing, algorithms, bioinformatics, digital image processing and pattern recognition, artificial intelligence, soft computing and applications. Upon a strength review process, a number of high-quality, presenting not only innovative ideas but also a founded evaluation and a strong argumentation of the same, were selected and collected in the present proceedings, that is composed of three different volumes.