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Spring Summer 2024



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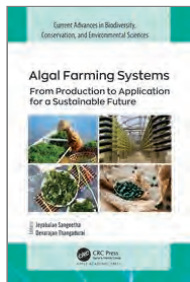
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Algal Farming Systems

From Production to Application for a Sustainable Future



Edited by **Jeyabalan Sangeetha, Devarajan Thangadurai**

Series: Current Advances in Biodiversity, Conservation, and Environmental Sciences

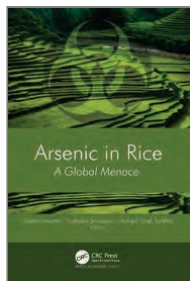
Presents the latest technological innovations in algae production, market status, and prospects for algal applications. It overviews different perspectives on the commercial production of algae-based food, health, and high-value cosmeceutical products, providing an institutional framework to support and promote the development and commercialization of algal farming. The book discusses phycotechnology, presents new information on algal culture conditions and cultivation strategies, the industrial applications of algae, green synthesis of nanoparticles from algae etc.

Apple Academic Press
April 2024:432
Hb: 978-1-774-91652-0: **£180**
eBook: 978-1-032-70035-9

* For **full contents** and more information, visit: www.routledge.com/9781774916520

Arsenic in Rice

A Global Menace



Edited by **Garima Awasthi, Sudhakar Srivastava, Mahipal Singh Sankhla**

Addresses the arsenic-rice problem, covering arsenic in water and in soil and specifically arsenic in rice, offering effective mitigation strategies. It discusses the rhizospheric physiology of rice in paddy fields and how arsenic is transported inside the plant and how arsenic causes toxicity to rice plants. It reviews long-distance translocation of arsenic in rice, arsenic-induced phytotoxicity, economic measures to reduce arsenic load, and techniques that are agronomically safe. The biotechnological and nanotechnological methods to mitigate arsenic stress in rice are considered as are the microbial-mediated techniques that can be applied to regulate arsenic in rice.

Apple Academic Press
February 2024:282
Hb: 978-1-774-91466-3: **£150**
eBook: 978-1-003-40839-0

* For **full contents** and more information, visit: www.routledge.com/9781774914663

Climate-Resilient Agriculture

A Molecular Perspective



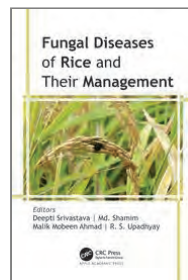
Edited by **Ashutosh Singh, Saurabh Pandey**

Covers the current aspects of climate-resilient agriculture, including the crucial physiological, biochemical, and molecular aspects of cultivated crops under stress conditions, which play a pivotal role in developing climate-smart crops. It discusses the state of climate change and its effect on crop diversity and germplasm along with advanced technologies and approaches to crops that can withstand adverse climate scenarios. The volume explores breeding, omics, genetic engineering, bioengineering of metabolic pathways, and artificial intelligence.

Apple Academic Press
July 2024:564
Hb: 978-1-774-91506-6: **£170**

* For **full contents** and more information, visit: www.routledge.com/9781774915066

Fungal Diseases of Rice and Their Management



Edited by **Deepti Srivastava, Md. Shamim, Malik Mobeen Ahmad, R. S. Upadhyay**

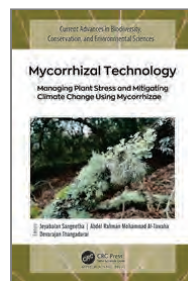
Examines the bacterial and fungal pathogens that can cause rice diseases and explores how to manage these diseases. It covers the economic and environmental impact of rice fungal diseases on global food security and delves into diagnostic methods for rice fungal pathogens, discussing both traditional and molecular techniques for detection, including biotechnology, bioinformatics tools, and biological methods for the effective management of rice fungal diseases.

Apple Academic Press
January 2024:424
Hb: 978-1-774-91247-8: **£147**
eBook: 978-1-003-33216-9

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Mycorrhizal Technology

Managing Plant Stress and Mitigating Climate Change Using Mycorrhizae



Edited by **Jeyabalan Sangeetha, Abdel Rahman Mohammad Al-Tawaha, Devarajan Thangadurai**

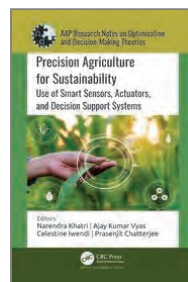
Delivers the remarkable theoretical and practical findings on the applications of mycorrhizal fungi in recovering plant health, in producing the mycorrhizal edible forest trees, and in conserving natural resources. It examines the recent research studies based on mycorrhizal technology that have explored the positive impact of root symbiosis on plant adaptation to climate-associated abiotic stressors, such as salinity, drought, flooding, and high temperatures. Also discusses the extensive commercial applications of mycorrhiza fungi in various industrial sectors including agriculture, horticulture, and biotechnology.

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Precision Agriculture for Sustainability

Use of Smart Sensors, Actuators, and Decision Support Systems



Edited by **Narendra Khatri, Ajay Kumar Vyas, Celestine Iwendi, Prasenjit Chatterjee**

Series: AAP Research Notes on Optimization and Decision Making Theories

A comprehensive exploration of the state-of-the-art digital technological intervention for precision agriculture for sustainable development. It delves into how modern technologies—i.e., GPS, drones, image processing, artificial intelligence, machine learning, Internet of Things, and deep learning—are being used in agriculture to make it more farmer-friendly and more economically profitable. It discusses smart sensors, actuators, and decision support systems that provide intelligent data about crop health and for monitoring for yield prediction, soil quality, and nutrition requirement prediction, etc.

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eBook: 978-1-003-43522-8

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Protected Cultivation

Structural Design, Crop Management Modeling, and Automation



Edited by **Mahesh Chand Singh, K. K. Sharma**

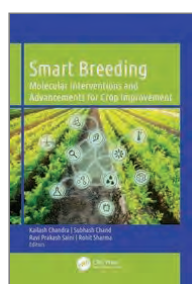
Safeguarding crop plants from the harmful effects of climate change, from environmentally toxic Looks at protected cultivation techniques to safeguard crop plants from the harmful effects of climate change, from environmentally toxic agricultural chemicals, and from crop pests and crop diseases. Topics include selecting site-specific protected structures, structure design and construction, improved crop cultivation techniques, irrigation and fertigation automation, insect-pests and diseases and their management, economic analysis of protected cultivation, modeling greenhouse micro-climate/environment, and more.

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Smart Breeding

Molecular Interventions and Advancements for Crop Improvement



Edited by **Kailash Chandra, Subhash Chand, Ravi Prakash Saini, Rohit Sharma**

Focuses on novel breeding and biotechnological approaches for crop improvement, covering recent advances in molecular breeding and plant breeding, such as pre-breeding, reverse breeding, allele mining, next-generation sequencing, etc. The book discusses the development of climate-resilient crops that can withstand hostility or adversities of climate without substantially compromising yield and ways to mitigate plant stress. The book includes molecular markers, their genesis, and their applications for crop improvement; QTL mapping, a modern breeding approach for mapping quantitative traits; pulse molecular breeding and genomics; and approaches for gene alterations.

Apple Academic Press
February 2024:446
Hb: 978-1-774-91331-4: **£147**
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Biodiversity Hotspot of the Himalaya



Edited by **T. Pullaiah**

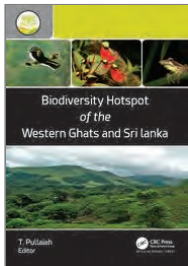
Series: *Biodiversity Hotspots of the World*

Focuses on the most interesting and important aspects of the Himalayan biodiversity hotspot, covering physiography and climatology; vegetation and forest types; amphibian and reptile biodiversity; genetic diversity of crops, plants, fishes, butterflies, insects, birds, mammals, angiosperms, and gymnosperms; and threats and conservation efforts. The highlands have exceptionally rich biodiversity, high endemism, and over 160 globally threatened species.

Apple Academic Press
July 2024:538
Hb: 978-1-774-91458-8: £193

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Biodiversity Hotspot of the Western Ghats and Sri Lanka



Edited by **T. Pullaiah**

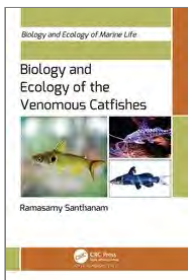
Series: *Biodiversity Hotspots of the World*

Focuses on the most interesting and important properties of biodiversity hotspot of Western Ghats and Sri Lanka, covering physiography and climatology, vegetation and forest types, amphibian and reptile biodiversity, genetic diversity of crops and plants, fishes, butterflies, insects etc. This hotspot, construed as forming a community of species because of their shared biogeographical history, is extraordinarily rich in species, especially plants, found nowhere else. However, its forests face tremendous population pressure and have been dramatically impacted by demands for timber and agricultural land are globally threatened.

Apple Academic Press
February 2024:652
Hb: 978-1-774-91375-8: £193
eBook: 978-1-003-40875-8

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Biology and Ecology of the Venomous Catfishes



Ramasamy Santhanam

Series: *Biology and Ecology of Marine Life*

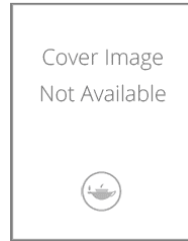
Here is a first-of-its-kind volume on the biology and ecology of venomous and traumatogenic freshwater and marine catfishes, covering their diversity; the aspects of venomology of catfish such as venom apparatus and venom characteristics; catfish envenomation and its treatment and management; and the pharmaceutical value of catfish venoms. This comprehensive volume first provides an introduction to venomous catfish families and then goes on to describe and explain their diversity, species, characteristics, geographical distribution, venomous symptoms, ecology, importance, and more.

Apple Academic Press
May 2024:274
Hb: 978-1-774-91452-6: £139
eBook: 978-1-003-40929-8

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Frontiers in Invertebrate Physiology A Collection of Reviews

3-volume set



Edited by **Saber Saleuddin, Sally P. Leys, Robert D. Roer, Iain C. Wilkie**

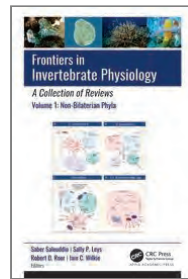
Provides reviews on the physiology of sponges, cnidarians, round and flat worms, annelids, echinoderms, and crustaceans. Vol 1 looks at non-bilaterians (sponges, cnidarians, placozoans). The section on cnidarians covers biomineralization, the nervous system, and development. The biology of placozoans is described in depth including the role of neuropeptides in feeding. Vol 2 looks at crustacea, covering physiological topics ranging from moulting, respiration, water balance, biomineralization, bioreceptors, and temperature regulation to the land adaptation of terrestrial crustaceans. Vol 3 discusses annelida and Echinodermata.

Apple Academic Press
March 2024:1466
Hb: 978-1-774-91398-7: £495.72

* For full contents and more information, visit: www.routledge.com/9781774913987

Frontiers in Invertebrate Physiology: A Collection of Reviews

Volume 1: Non-Bilaterian Phyla



Edited by **Saber Saleuddin, Sally P. Leys, Robert D. Roer, Iain C. Wilkie**

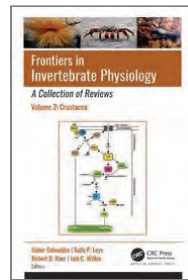
This 3-volume set provides informative reviews on the physiology of sponges, cnidarians, round and flat worms, annelids, echinoderms, and crustaceans. Volume 1 looks at non-bilaterians (sponges, cnidarians, placozoans). The focus on sponge biology has recently been on symbiosis, nutrient uptake, and sensory biology. The section on cnidarians covers biomineralization, the nervous system, and development. The biology of placozoans is described in depth including the role of neuropeptides in feeding. Volume 2 focuses on crustacea, and Volume 3 covers echinoderms and annelids.

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February 2024:516
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eBook: 978-1-003-40331-9

* For full contents and more information, visit: www.routledge.com/9781774914007

Frontiers in Invertebrate Physiology: A Collection of Reviews

Volume 2: Crustacea



Edited by **Saber Saleuddin, Sally P. Leys, Robert D. Roer, Iain C. Wilkie**

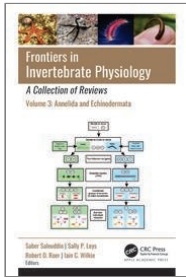
This new 3-volume set provides informative reviews on the physiology of sponges, cnidarians, round and flat worms, annelids, echinoderms, and crustaceans. Chapters on crustacean physiology are grouped in Volume 2 and cover diverse physiological topics ranging from moulting, respiration, water balance, biomineralization, bioreceptors, and temperature regulation to the land adaptation of terrestrial crustaceans. The chapters are comprehensive and add new knowledge to crustacean biology. Volume 1 looks at non-bilaterians (sponges, cnidarians, placozoans). Echinoderms and annelids are covered in Volume 3.

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February 2024:426
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Frontiers in Invertebrate Physiology: A Collection of Reviews

Volume 3: Annelida and Echinodermata



Edited by **Saber Saleuddin, Sally P. Leys, Robert D. Roer, Iain C. Wilkie**

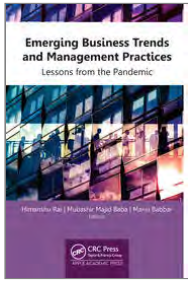
This new 3-volume set provides informative reviews on the physiology of sponges, cnidarians, round and flat worms, annelids, echinoderms, and crustaceans. Echinoderms and annelids are covered in Volume 3. The volume looks at temporary adhesion and regeneration as two important areas in echinoderm biology. It includes an important review of juxtaligamental cells, which may regulate the mechanical properties of connective tissue. Annelid physiology is discussed (neurobiology of locomotion in leeches, regeneration, reproduction) as is neuro-endocrine-immune response.

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Emerging Business Trends and Management Practices

Lessons from the Pandemic



Edited by **Himanshu Rai, Mubashir Majid Baba, Mansi Babbar**

Explores the dramatic changes in the business environment from the phenomenal impact of the COVID-19 pandemic. It presents emerging trends, strategies, management practices, opportunities, and challenges faced by business leaders, managers, and administrators. It highlights the nuances of business growth and sustainability and different management functions where change results in new management trends and business models followed by innovative ways for competition. It includes a variety of perspectives, practical experiences, knowledge, and insights to aid in formulating and implementing strategies.

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HR 4.0 Practices in the Post-COVID-19 Scenario



Edited by **Gurinder Singh, Silky Sharma, Brig. Hardeep Singh Dhanny, Vikas Garg**

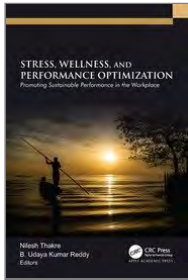
Examines the dramatic impact of the COVID-19 pandemic and the digital revolution on human resources management practices, processes, and systems. It looks at the major difficulties, challenges, and opportunities that arose because of the COVID pandemic, equipping HR managers, researchers, and practitioners with the knowledge they need for future organizational directions. Topics include work-from-home, workplace digitization, employee work-life balance, task automation via AI, HRM curriculum in schools and universities, employee development, e-recruitment, internal marketing, and more. The volume includes case studies and data gathered from employee/worker surveys.

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Stress, Wellness, and Performance Optimization

Promoting Sustainable Performance in the Workplace



Edited by **Nilesh Thakre, B. Udaya Kumar Reddy**

Examines the intertwined concepts of stress, performance, and wellness and offers insight and strategies for providing support to individuals and organizations for effective performance optimization. It considers new constructs in organizational stress and provides a comprehensive review of wellness as well as performance aspects. Topics include organizational constraints that negate effective job performance, well-being interventions, the role of family and spirituality, new technology, work-life balance and life satisfaction, organizational justice, burnout and self-efficacy, etc. The book also provides practical examples that combine theory and practice.

Apple Academic Press
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Hb: 978-1-774-91406-9: £124
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Biocomposites

Environmental and Biomedical Applications



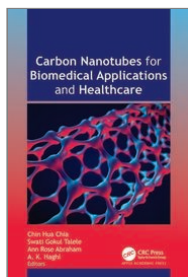
Edited by **Omar Mukbaniani, Tamara Tatrishvili, Neha Kanwar Rawat, A. K. Haghi**

Presents the most recent studies on the different aspects of new green materials and related biocomposites. The chapters focus on the overall characteristics of biocomposites, including chemical composition along with engineering and technical properties of the most in-demand green materials employed for fabricating biocomposites. It also reports on the modern techniques along with new developments engaged to produce biocomposites. After considering applications and trends of biocomposites, the major characterization techniques along with the important environmental effects are discussed in depth.

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Carbon Nanotubes for Biomedical Applications and Healthcare



Edited by **Chin Hua Chia, Swati Gokul Talele, Ann Rose Abraham, A. K. Haghi**

Discusses the synthesis, properties, modification of CNT, and progress of carbon nanotubes and their applications for biosensing, cancer treatment, antibacterial therapy, tissue engineering, targeted drug delivery, and toxicity. It relays the potential and promise of carbon-based nanomaterials for host of applications while also looking at the challenges in synthesis, characterization, and applications of nanomaterials and how to overcome them. It examines the applications of carbon nanotubes in biomedical science and human health.

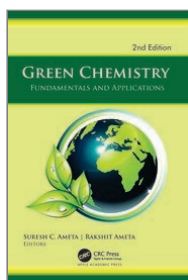
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2ND EDITION

Green Chemistry, 2nd edition

Fundamentals and Applications



Edited by **Suresh C. Ameta, Rakshit Ameta**

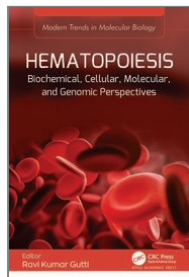
This second edition of the well-received Green Chemistry: Fundamentals and Applications addresses a diverse selection of topics in green chemistry, highlighting the potential and scope of green chemistry for clean and sustainable development. Covering the basics, the book discusses the benefits of environmentally friendly chemical practices and their use in industry. The book has been updated with new research, new advances, and timely references. Specific topics include eco-friendly products, green catalysts, ionic liquids, supercritical fluids, green solvents, photo-Fenton reaction, photocatalysis, sonochemistry, ultrasound-assisted reactions.

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Hematopoiesis

Biochemical, Cellular, Molecular, and Genomic Perspectives



Edited by **Ravi Kumar Gutti**

Series: *Modern Trends in Molecular Biology*

Discusses the widespread concerns of hematopoietic challenges in different and emerging ways, offering a comprehensive overview of the regulation of blood cell development, epigenetic mechanisms, and regulatory non-coding RNAs. It presents concepts related to regulation of hematopoietic stem cell development, as well as survival, proliferation, and differentiation. It also discusses the microenvironmental niche where stem cells exist and develop into distinct blood cell types. A model system used to study non-coding RNA functions and along with transformation of normal cells into cancer cell is elaborated on as well.

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Foundation and Growth of Macromolecular Science

Advances in Research for Sustainable Development



Edited by **Meegle S. Mathew, Józef T. Haponiuk, Sabu Thomas**

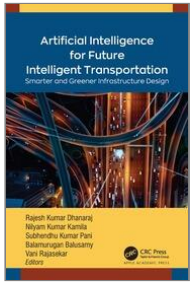
Explores macromolecular science and its current challenges, applications, and solutions to challenges. It discusses new applications of polymers and their composites and innovations in the synthesis and characterization of polymers, providing explanations of the behavior of polymers in solutions and in bulk. Covers zein-based composites, polymers to strengthen concrete, polymer/metal nanocomposite magnetic materials, synthetic polymers in aquatic environments, pharmaceutical 3D-printing, alginate-based wound healing dressings, and more. Some chapters place emphasis on sustainable development and green eco-friendly approaches.

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Hb: 978-1-774-91367-3: £151.44
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Artificial Intelligence for Future Intelligent Transportation

Smarter and Greener Infrastructure Design



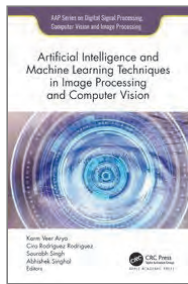
Edited by **Rajesh Kumar Dhanaraj, Nilayam Kumar Kamila, Subhendu Kumar Pani, Balamurugan Balusamy, Vani Rajasekar**

Emphasizing a sustainable and green approach, this new book presents an overview of state-of-the-art AI strategies for solving transportation challenges around the world, with a focus on traffic management, traffic safety, public transportation, urban mobility, and pollution mitigation. The book examines modern AI technologies such as IoT, cloud computing, machine learning, and neural networking in the context of fully automated transportation that meets current requirements. The book provides an informative review of the difficulties and recent developments in smart mobility and transportation, encompassing technical, algorithmic, and social elements.

Apple Academic Press
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eBook: 978-1-003-40846-8

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Artificial Intelligence and Machine Learning Techniques in Image Processing and Computer Vision



Edited by **Karm Veer Arya, Ciro Rodriguez Rodriguez, Saurabh Singh, Abhishek Singhal**

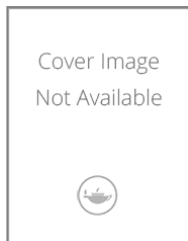
Presents in-depth knowledge on the latest research in image processing and computer vision techniques, explaining the machine learning algorithms and models involved. The authors differentiate between the various algorithms available and how to choose which to use for the most precise results for a specific task involving certain constraints. The volume provides real-world examples to illustrate the concepts and methods. It also explores the diverse applications of image and video processing, including image colorization and restoration using deep learning, using machine learning to record the changes in the Amazon rainforest over time with remote sensing, and more.

Apple Academic Press
June 2024:340
Hb: 978-1-774-91469-4: £130

* For full contents and more information, visit: www.routledge.com/9781774914694

Computational Imaging and Analytics in Biomedical Engineering

Algorithms and Applications



Edited by **T. R. Ganesh Babu, U. Saravanakumar, Balachandra Pattanaik**

Series: *AAP Series on Digital Signal Processing, Computer Vision and Image Processing*

Focuses on mathematical and numerical methods for medical images and data. It presents the various mathematical modeling techniques, numerical analysis, computing and computational techniques, and applications of machine learning for medical images and medical informatics. It also focuses on programming concepts using MATLAB and Python for medical image and signal analytics. It demonstrates the use of various computational techniques and tools such as machine learning, deep neural networks, artificial intelligence and human-computer interaction, fusion methods for CT and pet images, etc. for diagnosis of various disorders and diseases.

Apple Academic Press
July 2024:356
Hb: 978-1-774-91471-7: £147

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Computational Science and Its Applications



Edited by **Anupama Chadha, Sachin Sharma, Vasudha Arora**

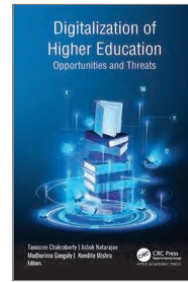
Explores the overlapping behavior of some aspects of the computational intelligence, focusing on real-life applications of these new tools and technologies. It discusses how computational science can interact with artificial intelligence, machine learning, data science, quantum computing, image processing, evolutionary algorithms (ESs), process simulation, deep learning, for big data analysis, and computational intelligent algorithms.

Apple Academic Press
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Hb: 978-1-774-91275-1: £131
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Digitalization of Higher Education

Opportunities and Threats



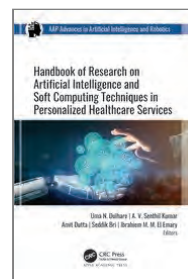
Edited by **Tanusree Chakraborty, Ashok Natarajan, Nandita Mishra, Madhurima Ganguly**

The book examines the policies of governments, higher education institution management, leadership styles to aid digitalization, the use of online teaching tools, changes in educational pedagogy, the impact of educational technology on the attitudes of students and educators to learning. It covers the opportunities in higher education that were made available by a digitalization process, digital management leadership of the HEIs, governmental initiatives introduced in conjunction with new education policy, how digitalization makes the process of learning more efficient, students' and teachers' acceptance of digitalization and psychological constructs of model cognitive.

Apple Academic Press
February 2024:404
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Handbook of Research on Artificial Intelligence and Soft Computing Techniques in Personalized Healthcare Services



Edited by **Uma N. Dulhare, A. V. Senthil Kumar, Amit Dutta, Seddik Bri, Ibrahim M. M. El Emary**

Series: *AAP Advances in Artificial Intelligence and Robotics*

Presents new applications in AI and soft computing for intelligent personalized healthcare. It looks at AI and soft computing techniques, applications, and algorithms, such as deep learning, robotics, machine learning, blockchain, emerging cloud, edge computing, Practical Byzantine Fault Tolerance consensus, CNN architecture, Splunk, genetic algorithms, DurBhashan, and more. It shows the uses of AI and computer techniques in healthcare for enhanced data sharing, remote health monitoring, tele-rehabilitation, connecting rural populations with healthcare services, identifying diseases and health issues, automated medical diagnosis, optimizing expenditures, etc.

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Incorporating AI Technology in the Service Sector

Innovations in Creating Knowledge, Improving Efficiency, and Elevating Quality of Life



Edited by **Maria Jose Sousa, Subhendu Pani, Francesca dal Mas, Sérgio Sousa**

Series: *AAP Advances in Artificial Intelligence and Robotics*

Examines in depth how AI innovation is creating knowledge, improving efficiency, and elevating quality of life for millions of people and how it applies to the service industry. It addresses advances, issues, and challenges of diverse service areas, including healthcare, mental health, finance, management, learning and education, and others. The authors demonstrate how service practices can incorporate the subareas of AI, such as machine learning, deep learning, blockchain, big data, neural networks, etc.

Apple Academic Press
March 2024:370
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Post-Pandemic Economy, Technology, and Innovation

Global Outlook and Context



Edited by **Samina Yaqoob, Arwa Abdulkreem AL-Huqail, Fakhra Aziz**

Explores the impact of the pandemic on many aspects of life and work, including the global economy, entrepreneurship and innovation, intellectual property laws, agriculture, healthcare, teaching and education, marketing strategies, banking mechanisms, travel and tourism, and science and technology. The book looks at how the virus outbreak has highlighted and emphasized the role of technological innovation as an essential connector as international borders were shuttered and commercial activity was disturbed at an unprecedented scale.

Apple Academic Press
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The Fusion of Artificial Intelligence and Soft Computing Techniques for Cybersecurity



Edited by **M. A. Jabbar, Sanju Tiwari, Subhendu Kumar Pani, Stephen Huang**

Series: *AAP Advances in Artificial Intelligence and Robotics*

Investigates the advances in artificial intelligence and soft computing techniques in cybersecurity. It specifically looks at cybersecurity during the COVID-19 pandemic, the use of cybersecurity for cloud intelligent systems, applications of cybersecurity techniques for web applications, and cybersecurity for cyber-physical systems. A diverse array of technologies and techniques are explored for cybersecurity applications, such as the Internet of Things, edge computing, cloud computing, artificial intelligence, soft computing, machine learning, cross-site scripting in web-based services, neural gas (GNG) clustering technique, and more.

Apple Academic Press
June 2024:294
Hb: 978-1-774-91480-9: £131

* For full contents and more information, visit: www.routledge.com/9781774914809

Reconnoitering the Landscape of Edge Intelligence in Healthcare



Edited by **Suneeta Satpathy, Sachi Nandan Mohanty, Sirisha Potluri**

Provides comprehensive research on edge intelligence technology with the emphasis on application in the healthcare industry. It covers all the various areas of edge intelligence for data analysis in healthcare, looking at the emerging technologies such as AI-based techniques, machine learning, IoT, cloud computing, and deep learning with illustrations of the design, implementation, and management of smart and intelligent healthcare systems.

Apple Academic Press
April 2024:292
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Revolutionary Challenges and Opportunities of Fintech



Edited by **Shweta Anand, Shalini Srivastav, Vikas Garg, Geetika Garg**

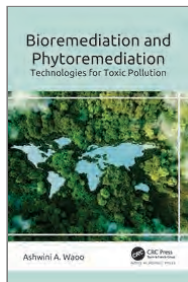
This book explores the emergence of artificial intelligence blended with financial concepts as a promising new area in business and technology—financial technology, or fintech. It introduces the concepts of fintech, its financial derivatives, management information systems, and artificial intelligence and provides tools to find solutions to complex problems in the finance and investment domain. The case studies provide firsthand knowledge of real problems faced by the industry and highlight the thought processes in resolution of complex problems.

Apple Academic Press
May 2024:240
Hb: 978-1-774-91504-2: £120

* For full contents and more information, visit: www.routledge.com/9781774915042

Bioremediation and Phytoremediation

Technologies for Toxic Pollution



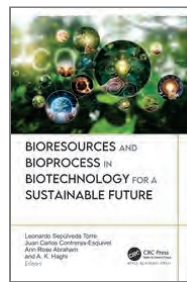
Ashwini A. Wao

Provides an informative overview of the emerging issues related to bioremediation and phytoremediation. It discusses alternative technologies for the removal of pollutants from the environment, restoring contaminated sites, and preventing further pollution using bioremediation. The multitude of bioremediation and phytoremediation technologies and methods covered include biochar for remediation, cyanobacteria, biosensors and bioindicators, rhizoremediation, and plant tissue culture studies such as dyes and plastics, mine waste, contaminated soil, heavy metals, wastewater, etc.

Apple Academic Press
February 2024:406
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eBook: 978-1-003-40959-5

* For full contents and more information, visit: www.routledge.com/9781774913840

Bioresources and Bioprocess in Biotechnology for a Sustainable Future



Edited by **Leonardo Sepúlveda Torre, Juan Carlos Contreras-Esquivel, Ann Rose Abraham, A. K. Haghi**

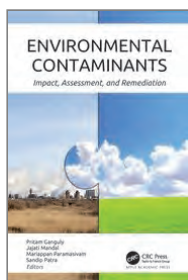
Reports on the latest achievements in the field of biotechnology and focuses on the different aspects of bioresources and bioprocesses in biotechnology for sustainable development and a sustainable future. It covers the various fields of agricultural biotechnology and focuses on selected commercial crops, discussing key parameters in evaluation of biodegradation in bio-based materials in soil for the better management of natural resources. Case studies on bioremediation and biodegradation are presented for improvement in the conditions of polluted soil and water bodies.

Apple Academic Press
April 2024:354
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Environmental Contaminants

Impact, Assessment, and Remediation



Edited by **Pritam Ganguly, Jajati Mandal, Mariappan Paramshivam, Sandip Patra**

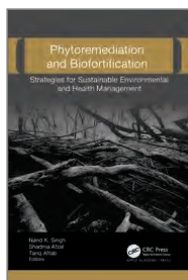
Looks at the impact, assessment, and remediation of various environmental contaminants. It discusses the environmental changes that can occur due to arsenic, heavy metals, herbicides, fluorides, microplastics, chemical fertilizers contaminants; the remedial measures of these environmental contaminants; and how to analyze trace-level concentrations of contaminants. The book discusses methods of trace analysis for persistent pollutants, explores phytoremediation and green approaches for the removal of contaminants, looks at the role of nanotechnology on remediation of environmental contaminants, and considers agronomic intervention for mitigation of environmental pollutants.

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Phytoremediation and Biofortification

Strategies for Sustainable Environmental and Health Management



Edited by **Nand K. Singh, Shadma Afzal, Tariq Aftab**

This volume offers a comprehensive overview of phytoremediation and biofortification as two strategies for sustainable environmental management. The book illustrates the emerging and innovative combination of these technologies, particularly highlighting strategies to mitigate pollution from microminerals. Topics include phytoremediation and biofortification strategies that use nanotechnology; algae, fungi, and other plants; CRISPR/Cas9-mediated genome engineering; and more for decontamination of water and soil and for fortifying plants against climate change, toxic chemicals, and other challenges.

Apple Academic Press
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Advanced Research Methods in Food Processing Technologies

Technology for Sustainable Food Production



Edited by Junaid Ahmad Malik, Megh R. Goyal, Preeti Birwal, Ritesh B. Watharkar

Series: Innovations in Agricultural & Biological Engineering

Presents new research on advanced technologies for food processing and preservation to maintain and improve food quality, extend shelf-life, and provide new solutions to food processing challenges. It discusses cold plasma and ultrasound processing, thermosonication, microwave processing of foods, high-pressure processing, electrospraying technology in foods, encapsulation techniques, freezing and thawing processes on textural properties of food products, 3D printing of foods, enzyme-linked immunosorbent assay (ELISA) in food authentication, and state-of-the-art applications of nanotechnology in food processing.

Apple Academic Press
February 2024:472
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Advances in Sustainable Food Packaging Technology



Edited by Megh R. Goyal, Preeti Birwal, Anand Kumar Pandey, Ritesh Balaso Watharkar

Series: Innovations in Agricultural & Biological Engineering

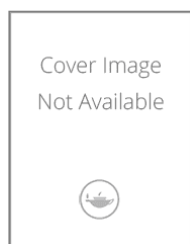
Investigates recent innovations in active, intelligent, and smart packaging systems that embrace packaging potential to not only provide protection to food but can also improve nutritive value, reduce contamination by releasing antimicrobials, and provide real-time status of food quality. It presents the leading features of food storage, management, and food packaging and addresses emerging and advanced approaches in packaging of foods, including nanotechnology-based improvements in food packaging, biodegradation and bio-based approaches for management of plastic waste, and more.

Apple Academic Press
February 2024:342
Hb: 978-1-774-91394-9: **£151.44**
eBook: 978-1-003-39524-9

* For full contents and more information, visit: www.routledge.com/9781774913949

Analytical Methods for Milk and Milk Products

3-volume set



Edited by Megh R. Goyal, N. Veena, Santosh K. Mishra

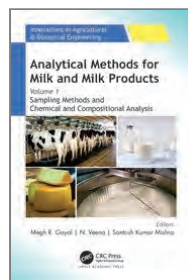
Presents analytical techniques for assessing the physical, chemical, and microbiological properties of milk products to ensure quality and safety. Vol 1: Sampling Methods, Chemical, and Compositional Analysis describes sampling methods and chemical analysis, highlighting procedures and the physicochemical and compositional aspects. Vol 2: Physicochemical Analysis of Concentrated, Coagulated, and Fermented Products focuses on methods for physicochemical and compositional analysis of concentrated, coagulated, and fermented dairy products. Vol 3: Microbiological Analysis, Isolation, and Characterization covers bacterial enumeration, pathogen detection etc.

Apple Academic Press
February 2024:1196
Hb: 978-1-774-91305-5: **£435**

* For full contents and more information, visit: www.routledge.com/9781774913055

Analytical Methods for Milk and Milk Products

Volume 1: Sampling Methods and Chemical and Compositional Analysis



Edited by Megh R. Goyal, N. Veena, Santosh Kumar Mishra

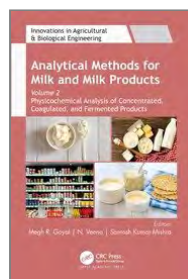
Comprehensively illustrates analytical techniques and methodologies for assessing the physical, chemical, and microbiological properties of milk and milk products to ensure quality and safety. Volume 1 covers analysis of milk and milk products with a description of the main analytical techniques and methodologies and their application to the compounds involved in nutritional and technological quality. It describes sampling methods and chemical analysis of milk, highlighting the standard methods used for glassware, sampling procedures, and the physicochemical and compositional aspects and assessment of the quality of raw milk intended for processing and manufacturing.

Apple Academic Press
February 2024:410
Hb: 978-1-774-91307-9: **£147**
eBook: 978-1-032-67573-2

* For full contents and more information, visit: www.routledge.com/9781774913079

Analytical Methods for Milk and Milk Products

Volume 2: Physicochemical Analysis of Concentrated, Coagulated and Fermented Products



Edited by Megh R. Goyal, N. Veena, Santosh Kumar Mishra

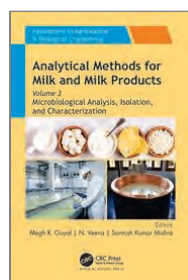
Illustrates a wide range of analytical techniques and methodologies for assessing the physical, chemical, and microbiological properties of milk and milk products to ensure nutritional and technological quality and safety of milk and milk products. It focuses on various analytical methods for physicochemical and compositional analysis of concentrated, coagulated, and fermented dairy products in detail. It also describes the standard methodologies for the analysis of nutraceutical components and food additives commonly used in various dairy products to meet technological and nutritional quality standards.

Apple Academic Press
February 2024:408
Hb: 978-1-774-91309-3: **£147**
eBook: 978-1-032-67581-7

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Analytical Methods for Milk and Milk Products

Volume 3: Microbiological Analysis, Isolation, and Characterization



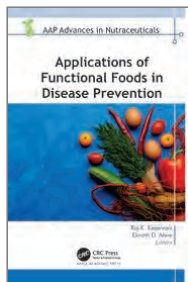
Edited by Megh R. Goyal, N. Veena, Santosh Kumar Mishra

Discusses the microbiological analysis of milk and milk products, including bacterial enumeration, pathogen detection, mastitis milk identification, quality testing for starter cultures, isolation and characterization of lactic acid bacteria (LAB), safety assessment protocols for probiotics, DNA isolation methods, molecular characterization techniques, and statistical tools for laboratory data analysis. It presents an in-depth description of the methodologies for isolation, identification, and confirmatory tests for various hygiene and safety indicator organisms.

Apple Academic Press
February 2024:378
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* For full contents and more information, visit: www.routledge.com/9781774917411

Applications of Functional Foods in Disease Prevention



Edited by **Raj K. Keservani, Eknath D. Ahire**

Series: *AAP Advances in Nutraceuticals*

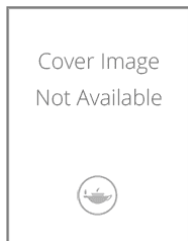
Explores the role of functional food applications in prevention and management of various diseases, including diabetes, obesity, microbial infections, ulcers, mental disorders, cardiac health, bone health, and more. Provides an introduction, overview, and an explanation of the classifications of functional foods. It discusses using bioactive compounds in the prevention, management, or treatment of a number of diseases, with illustrative case studies. It also looks at how food products help to reduce the risk of heart disease by lowering blood lipid levels, improving arterial compliance, lowering low-density lipid oxidation, and inhibiting platelet aggregation.

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Bioactive Compounds and Nutraceuticals from Dairy, Marine, and Nonconventional Sources

Extraction Technology, Analytical Techniques, and Potential Health Prospective



Edited by **Charanjit S. Riar, Parmjit S. Panesar**

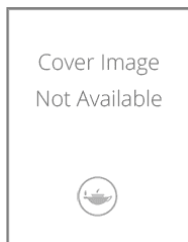
Provides an overview of bioactive compounds and nutraceuticals with explanations of their chemical characteristics, profile, and physicochemical aspects of bioactive compounds and nutraceuticals from natural sources such as milk and dairy products, marine algae and seaweeds, and nonconventional sources, such as from spices and condiments sources and microbial sources. It details the extraction technologies of active ingredients and analytical techniques along with the profiling of functional compounds and nutraceuticals. It gives detailed descriptions of the techniques for extraction, isolation, and characterization of active ingredients from food preparations.

Apple Academic Press
June 2024:324
Hb: 978-1-774-91498-4: **£140**

* For full contents and more information, visit: www.routledge.com/9781774914984

Emerging Technologies for the Food Industry

3-volume set



Edited by **C. Anandharamkrishnan, Jeyan Arthur Moses**

A compilation of emerging and futuristic food processing technologies, presenting fundamental concepts of food technology, trending applications, and a range of interdisciplinary concepts that have found numerous interwoven applications in the food industry. This multi-volume set covers a range of aspects, starting from an introduction to food processing technology, emerging thermal and nonthermal processing technologies, ICT applications for the food industry, and concluding with future technologies. It provides a substantial contribution to the field of food processing.

Apple Academic Press
April 2024:1050
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Emerging Technologies for the Food Industry

Volume 1: Fundamentals of Food Processing Technology



Edited by **C. Anandharamkrishnan, Jeyan Arthur Moses**

Presents the basics of food preservation, covering hurdle technology, aspects of minimal processing, ohmic heating of foods, edible coatings, and electromagnetics and allied applications in food processing. It also introduces various unit operations in the food industry. This volume also discusses novel methods of food quality evaluation and covers the fundamentals of and increasing applications of nanotechnology in the food sector.

Apple Academic Press
April 2024:392
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eBook: 978-1-003-41359-2

* For full contents and more information, visit: www.routledge.com/9781774914243

Emerging Technologies for the Food Industry

Volume 2: Advances in Nonthermal Processing Technologies



Edited by **C. Anandharamkrishnan, Jeyan Arthur Moses**

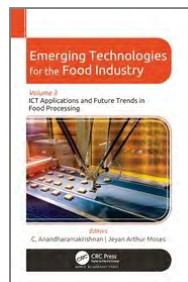
Focuses on nonthermal processing and its applications in the food industry. This includes high-pressure processing, ultrasound processing, high intensity pulsed light technology, pulsed electric field processing, cold plasma, ozone processing, as well as the use of sub- and supercritical processing. It also discusses emerging electrohydrodynamic technologies: electrospinning and electrospraying. This volume provides rich content on fundamental concepts, applications, and challenges in nonthermal processing, throwing light on the scope of developing sustainable technologies for the food industry.

Apple Academic Press
April 2024:290
Hb: 978-1-774-91426-7: **£139**
eBook: 978-1-003-41361-5

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Emerging Technologies for the Food Industry

Volume 3: ICT Applications and Future Trends in Food Processing



Edited by **C. Anandharamkrishnan, Jeyan Arthur Moses**

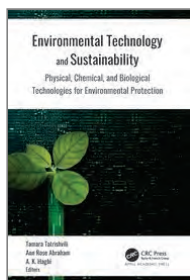
Here is an exploration of the future of food processing, highlighting emerging and disruptive technologies and their gaining influence in the food sector. The first five chapters focus on computer and information technology-linked applications such as CFD modeling, robotics, automation, artificial intelligence, big data, the Internet of Things, cloud computing, and blockchain management for the food industry. The book then details selected concepts that have made phenomenal advancements in recent years.

Apple Academic Press
April 2024:382
Hb: 978-1-774-91428-1: **£139**
eBook: 978-1-003-41366-0

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Environmental Technology and Sustainability

Physical, Chemical and Biological Technologies for Environmental Protection



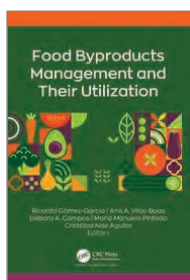
Edited by **Tamara Tatrishvili, Ann Rose Abraham, A. K. Haghi**

Covers the most recent theoretical and practical advancements in green technology for a clean and healthy environment, providing information on advanced materials and green composites. It also expounds on environmental chemistry for a sustainable world by providing information on different characterization methods as well as new techniques. The volume also considers recent developments and applications of clean energy materials. It presents case studies that emphasize the green technologies being discussed.

Apple Academic Press
April 2024:368
Hb: 978-1-774-91434-2: £139
eBook: 978-1-003-39796-0

* For full contents and more information, visit: www.routledge.com/9781774914342

Food Byproducts Management and Their Utilization



Edited by **Ricardo Gómez-García, Ana A. Vilas-Boas, Débora A. Campos, Maria Manuela Pintado, Cristóbal Noé Aguilar**

Discusses how food byproducts can be value-added renewable sources with the application of novel biotechnologies that avoid hazardous chemicals. It explores the importance of valorizing food wastes and illustrates their value-added properties for industry. It explains the progress in bioresources processing for compound extraction and production as well as the increasing interest of food ingredients development. Also looks at waste byproducts of various crops and their uses in the generation of health-benefiting bioactive compounds and discusses various biotechnological strategies to extract, produce, and recover bioactive compounds.

Apple Academic Press
January 2024:520
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eBook: 978-1-003-37780-1

* For full contents and more information, visit: www.routledge.com/9781774912959

Nutrigenomics and Nutraceuticals



Edited by **Raj K. Keservani, Eknath D. Ahire, Shubham J. Khairnar, Sanjay J. Kshirsagar, Rajesh K. Kesharwani**

Series: *AAP Advances in Nutraceuticals*

A comprehensive overview of the field of nutraceuticals and genomics—also called nutrigenomics, a rapidly growing field as the science of nutrition and genomics advances. It discusses techniques to investigate the nutritional basis of health disorders and covers the nutrigenomic tools for the prevention of disease conditions such as cancer, viral infection, microbial infection, COVID-19, HIV/AIDS, tuberculosis, hypertension, neurodegenerative disease, obesity, baldness, and anemia. Some nutrigenomic tools can also be used for brain health, weight loss, human nutrition, skin care, and maintaining health during pregnancy.

Apple Academic Press
June 2024:374
Hb: 978-1-774-91438-0: £147

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Sustainable and Functional Foods from Plants

Health Impact, Bioactive Compounds, and Production Technologies



Edited by **Megh R. Goyal, Arijit Nath, Zoltán Kovács**

Series: *Innovations in Agricultural & Biological Engineering*

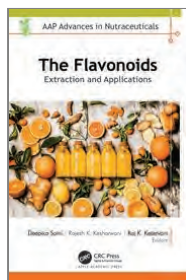
Details food and functionality of plant-based products and provides insight into the nutritional composition of key elements of plant-based diets. It introduces the most common adulteration practices and details quality monitoring and potential applications. The book primarily focuses on millets within plant-based products and discusses the uses of wine and beer, while mapping consumption trends and consumers' expectations and preferences. It also explores some ethnic foodstuffs, ingredients, and condiments in the African, European, and Far Eastern cuisines while exploring the potential of bioactive compounds in medicinal foods.

Apple Academic Press
June 2024:458
Hb: 978-1-774-91454-0: £147

* For full contents and more information, visit: www.routledge.com/9781774914540

The Flavonoids

Extraction and Applications



Edited by **Deepika Saini, Rajesh K. Kesharwani, Raj K. Keservani**

Series: *AAP Advances in Nutraceuticals*

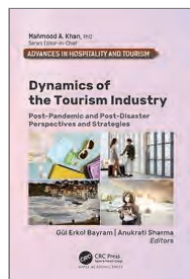
Describes advances in polyphenol (flavonoids) derivatives for human health and in the management and prevention of diseases along with their positive effects on human and animal health and for disease therapy and chemoprevention. The biochemistry and applications of flavonoids are explored, and their proven and potential pharmacological health benefits are listed. Summarizes the classification of flavonoids and explores their potential as immunity-boosting compounds, for mental health, for prevention of cardiovascular illnesses, for their antimicrobial and anti-inflammatory uses, for their use in vasodilation, dermatology and cosmetic preparation.

Apple Academic Press
February 2024:338
Hb: 978-1-774-91377-2: £139
eBook: 978-1-003-39996-4

* For full contents and more information, visit: www.routledge.com/9781774913772

Dynamics of the Tourism Industry

Post-Pandemic and Post-Disaster Perspectives and Strategies



Edited by **Gül Erkol Bayram, Anukrati Sharma**

Series: Advances in Hospitality and Tourism

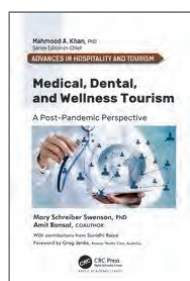
Presents a broad look of the tourism issues related to pandemics and natural disasters. It looks at the history of pandemics and disasters; tourist motivation and safety during and after pandemics and disasters; recovery of the tourism industry; redesign, reconstruction, and creation of tourism activities; crisis management and planning; the role of governments in the management of the tourism industry; competitive marketing strategies; reflections of climate change on tourism; and much more. The book includes cases and practical studies that deal with the current situation, addressing challenges, solutions, and future strategies after pandemics and natural disasters.

Apple Academic Press
February 2024:306
Hb: 978-1-774-91448-9: £131
eBook: 978-1-003-45543-1

* For full contents and more information, visit: www.routledge.com/9781774914489

Medical, Dental, and Wellness Tourism

A Post-Pandemic Perspective



Edited by **Mary Schreiber Swenson, Amit Bansal**

Series: Advances in Hospitality and Tourism

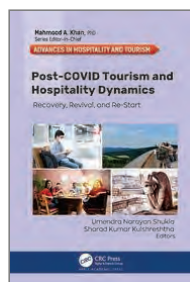
Offers a thorough and informative guide to medical travel and tourism for treatment of health-related issues. The book first defines medical, dental, and wellness tourism and travel for treatment and then goes on to look at the myriad issues involved, such as benefits and challenges of travel for treatment, how the COVID-19 pandemic has affected the treatment sectors in tourism, selecting the right destination and facility, ending your life in another country, the growing world of birth tourism, dental tourism, medical travel for second opinions, privacy and health data security and more.

Apple Academic Press
January 2024:308
Hb: 978-1-774-91494-6: £140
eBook: 978-1-003-43356-9

* For full contents and more information, visit: www.routledge.com/9781774914946

Post-COVID Tourism and Hospitality Dynamics

Recovery, Revival, and Re-Start



Edited by **Umendra Narayan Shukla, Sharad Kumar Kulshreshtha**

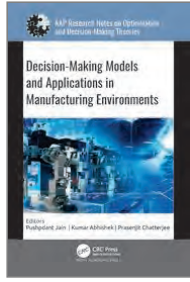
Series: Advances in Hospitality and Tourism

An in-depth look at the post-COVID tourism and hospitality scenario and how the industry is adapting to the new normal by sharing information and experiences on how diverse hospitality and tourism sectors are navigating the post-COVID era. The book offers post-COVID tourism sector recovery strategies and presents detailed analyses of post-COVID trends in the travel, tourism, and hospitality sector along with case studies from several countries of the world. Topics also cover post-COVID pandemic travel preferences, post-COVID safety protocols, sustainable tourism practices, post-COVID-19 public policies for tourism, specific tourism and hospitality sectors, and more.

Apple Academic Press
January 2024:520
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eBook: 978-1-003-42972-2

* For full contents and more information, visit: www.routledge.com/9781774915127

Decision-Making Models and Applications in Manufacturing Environments



Edited by **Pushpdant Jain, Kumar Abhishek, Prasenjit Chatterjee**

Series: *AAP Research Notes on Optimization and Decision Making Theories*

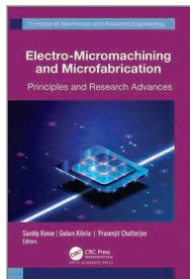
This new volume applies the multi-criteria decision-making (MCDM) theory to solving problems and challenges in manufacturing environments. It details the decision-making process in relation to many manufacturing aspects. The chapter authors demonstrate the application of myriad MCDM techniques in decision-making, including MADM (multiple attribute decision-making), DEA (data envelopment analysis), fuzzy TOPSIS (technique for order preference by similarities to ideal solution) and others.

Apple Academic Press
February 2024:528
Hb: 978-1-774-91355-0: **£139**
eBook: 978-1-003-39472-3

* For full contents and more information, visit: www.routledge.com/9781774913550

Electro-Micromachining and Microfabrication

Principles and Research Advances



Edited by **Sandip Kumar, Golam Kibria, Prasenjit Chatterjee**

Series: *Frontiers of Mechanical and Industrial Engineering*

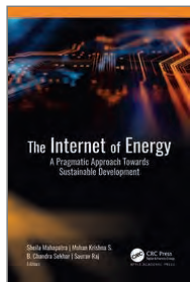
Provides an overview of micromachining technologies, with an emphasis on nontraditional approaches and advances. It discusses the ultrasonic micromachining processes for producing a variety of micro-shapes, such as micro-holes, micro-slots, and micro-walls, as well as assisted hybrid micromachining with ultrasonic vibration of the tool or workpiece, all which help to improve precision and to advance research. Computer-aided design, and computer-aided manufacturing, dental micromachining technologies are discussed. Micro-electrical discharge machining, laser micro grooving, and laser micromachining are among the advanced micro-manufacturing processes addressed.

Apple Academic Press
April 2024:432
Hb: 978-1-774-91379-6: **£147**
eBook: 978-1-003-39779-3

* For full contents and more information, visit: www.routledge.com/9781774913796

The Internet of Energy

A Pragmatic Approach Towards Sustainable Development



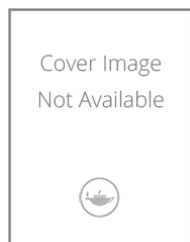
Edited by **Sheila Mahapatra, Mohan Krishna S., B. Chandra Sekhar, Saurav Raj**

Discusses the automation of electricity infrastructures for energy producers, integrating the implementation of IoT technology for distributed energy systems to optimize energy efficiency and wastage. Provides efficient, clean, and safe solutions for interfacing internet technology with energy power grids for smart cities and smart transportation. Describes research on algorithms for the design and control of energy grids, investigations of thermal efficiency from solar, energy for smart buildings using IoT, deep learning for electrical load forecasting, hybrid ultracapacitors in solar microgrids, power loss reduction and voltage improvement.

Apple Academic Press
February 2024:416
Hb: 978-1-774-91418-2: **£147**
eBook: 978-1-003-39982-7

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Advanced Nanomaterials for Biological, Nutraceutical, and Medicinal Applications



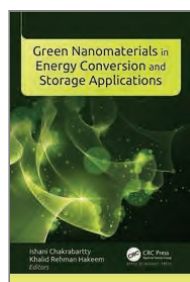
Edited by Sreeraj Gopi, Augustine Amalraj, T. R. Sreeraj

This new volume discusses a selection of nanomaterials that can be employed for advanced biological, nutraceutical, and medicinal applications. The book also includes a chapter that provides a helpful comparison of market analysis between biological and synthetic nanomaterials. The volume concludes with an insightful perspective on possible future applications of nanomaterials as nutraceutical, biological, and medicinal agents.

Apple Academic Press
July 2024:328
Hb: 978-1-774-91346-8: £147

* For full contents and more information, visit: www.routledge.com/9781774913468

Green Nanomaterials in Energy Conversion and Storage Applications



Edited by Ishani Chakrabarty, Khalid Rehman Hakeem

Addresses the energy challenge by discussing the various aspects of design, exploitation, and applications of green nanomaterials in energy devices—for energy efficiency, energy conversion, energy storage, and energy saving. The book also addresses the limitations that currently exist and how green nanomaterials can be utilized as a future prospect towards a sustainable economy. The book emphasizes the importance and different modes of synthesis of nanomaterials, with detailed emphasis on green nanomaterials. Energy efficiency and environmental impact of the utilization of green nanomaterials as energy conversion devices are a major focus of the book.

Apple Academic Press
February 2024:266
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eBook: 978-1-003-39857-8

* For full contents and more information, visit: www.routledge.com/9781774913888

New Advances in Materials Technologies

Experimental Characterizations, Theoretical Modeling, and Field Practices



Edited by Hossein Hariri Asli, Ali Pourhashemi, Ann Rose Abraham, A. K. Haghi

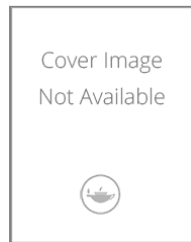
Examines the mathematical and experimental methods for advanced engineering materials and structures to determine practical applications under a wide range of conditions. The diversity of such mathematical models and experimental methods applied for different types of advanced materials and structures and their behavior is highlighted. Topics include geospatial information systems and networked sensors modeling, mathematical modeling in fluid and solid mechanics, deformations in a nonlocal isotropic thermoelastic materials, optical properties of solid materials, nano-scale and modern energy materials and devices, and smart materials-based E-nose technology.

Apple Academic Press
June 2024:322
Hb: 978-1-774-91484-7: £139

* For full contents and more information, visit: www.routledge.com/9781774914847

New Forms of Carbon

Nanocarbons



Edited by Aneeya Kumar Samantara, Satyajit Ratha

A detailed overview of the fundamental aspects of nanocarbons and their allotropic forms, their preparation techniques, and their applications in several fields of interest. New forms of carbon have the potential to revolutionize many aspects of research, including drug delivery, catalysis, energy conversion and storage, high-strength physics, structural engineering, and more. This volume covers the recent literature on carbon with emphasis on the emerging carbon-based materials developed, studies of their properties, and possible prototype fabricated for practical applications.

Apple Academic Press
July 2024:276
Hb: 978-1-774-91279-9: £131

* For full contents and more information, visit: www.routledge.com/9781774912799

Tailored Functional Materials for Clean and Sustainable Development



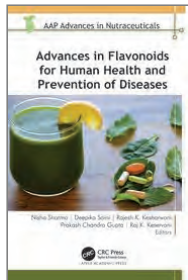
Edited by Tamara Tatrishvili, Neha Kanwar Rawat, Ann Rose Abraham, A. K. Haghi

This new volume presents tailoring and characterization of modern materials with functional applications and for use in clean technologies in different sectors. It covers new topics in nanotechnology, nanoscience, biopolymers, energy, carbon nanotubes, solid materials, biomaterials, and biomedical and healthcare for contributing to a greener environment. The book explains why the unique features of tailored nanomaterials make them ideal candidates for applications in biosensors technology, pathogenic microbe detection, and modification of polyester-based polymers. Several chapters summarize polymer functionalization and their applications.

Apple Academic Press
January 2024:334
Hb: 978-1-774-91365-9: £139
eBook: 978-1-003-39476-1

* For full contents and more information, visit: www.routledge.com/9781774913659

Advances in Flavonoids for Human Health and Prevention of Diseases



Edited by **Nisha Sharma, Deepika Saini, Rajesh K. Kesharwani, Prakash Chandra Gupta, Raj K. Keservani**
Series: *AAP Advances in Nutraceuticals*

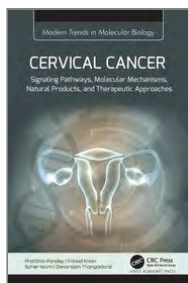
An overview of advances in flavonoids, exploring the applications and characteristics of polyphenol derivatives for the management and prevention of diseases. It examines the nutritional and pharmacological properties of polyphenols and flavonoids, including their ability to prevent the start and development of diseases and how they aid in the management of chronic pathological illnesses. Topics also include the benefits of natural food dyes as nutraceuticals and their functions, how flavonoid-rich diets are good for better health and help to prevent chronic noncommunicable diseases, the neuroprotective effects of flavonoids, and much more.

Apple Academic Press
January 2024:304
Hb: 978-1-774-91344-4: £131
eBook: 978-1-003-36981-3

* For full contents and more information, visit: www.routledge.com/9781774913444

Cervical Cancer

Signaling Pathways, Molecular Mechanisms, Natural Products, and Therapeutic Approaches



Edited by **Pratibha Pandey, Fahad Khan, Saher Islam, Devarajan Thangadurai**

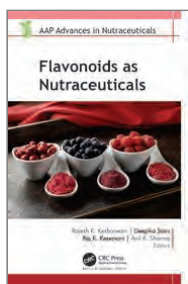
Series: *Modern Trends in Molecular Biology*

Focuses on new approaches to one of the major cancers of the female reproductive system—cervical cancer. Cervical cancer is the fourth most frequent cancer in women worldwide and, especially, a foremost cause of morbidity in women in developing countries, including India. Several research findings have suggested that modulation in various signaling pathways is responsible for cervical cancer pathogenesis, and inhibition of these crucial pathways could be a better therapeutic approach for cervical cancer management.

Apple Academic Press
April 2024:322
Hb: 978-1-774-91566-0: £150
eBook: 978-1-032-66583-2

* For full contents and more information, visit: www.routledge.com/9781774915660

Flavonoids as Nutraceuticals



Edited by **Rajesh K. Kesharwani, Deepika Saini, Raj K. Keservani, Anil Kumar Sharma**

Series: *AAP Advances in Nutraceuticals*

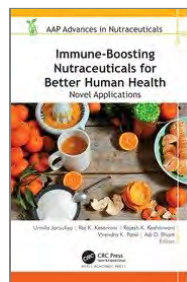
This new volume examines the growing use of flavonoids for prevention and treatment of diseases and discusses their beneficial mechanisms. Chapters in the volume address diverse themes, including their various uses, including as anti-ageing tools, as anti-inflammatory agents, for treating pregnancy-induced disorders, as a promising tool to combat infection of Covid-19, etc. The book explores their specific therapeutic antiviral potentials, the gene expression by flavonoids, and the role of flavonoids in agriculture.

Apple Academic Press
April 2024:312
Hb: 978-1-774-91382-6: £147
eBook: 978-1-003-41244-1

* For full contents and more information, visit: www.routledge.com/9781774913826

Immune-Boosting Nutraceuticals for Better Human Health

Novel Applications



Edited by **Urmila Jarouliya, Raj K. Keservani, Rajesh K. Kesharwani, Virendra K. Patel, Adi D. Bharti**

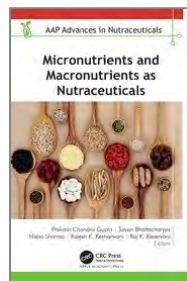
Series: *AAP Advances in Nutraceuticals*

Discusses the contribution of immune-boosting properties of nutraceuticals and functional foods toward human health, exploring dietary antioxidants, vitamins, minerals, edible microalgae, herbs, phytonutrients, omega 3-fatty acids, and probiotics. It addresses the immune-boosting properties of herbs and vegetables and the pharmacological and therapeutic importance of commonly used medicinal herbs and carotenoids-containing vegetables and their immunological and biological actions for treating disease and maintaining health.

Apple Academic Press
January 2024:414
Hb: 978-1-774-91357-4: £147
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* For full contents and more information, visit: www.routledge.com/9781774913574

Micronutrients and Macronutrients as Nutraceuticals



Edited by **Prakash Chandra Gupta, Sayan Bhattacharyya, Nisha Sharma, Rajesh K. Kesharwani, Raj K. Keservani**

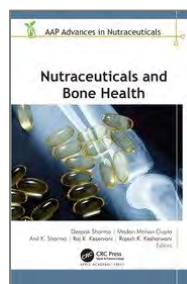
Series: *AAP Advances in Nutraceuticals*

Explores in detail the beneficial properties of micronutrients and macronutrient, such as their antioxidant activity and immunity-boosting properties. The volume considers the roles of microbes and microbial products as nutraceuticals and discusses how micronutrients, macronutrients, and nutraceuticals can be incorporated into the human diet for optimum health, growth of beneficial bacteria in gut, and inhibition of pathogens. The authors emphasize that efficient nutrient delivery of micronutrients and macronutrient is necessary for maximum benefit and explain how to achieve that.

Apple Academic Press
February 2024:404
Hb: 978-1-774-91226-3: £139
eBook: 978-1-003-41538-1

* For full contents and more information, visit: www.routledge.com/9781774912263

Nutraceuticals and Bone Health



Edited by **Deepak Sharma, Madan Mohan Gupta, Anil K. Sharma, Raj K. Keservani, Rajesh K. Kesharwani**

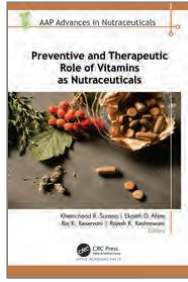
Series: *AAP Advances in Nutraceuticals*

Presents scientific information on the importance of nutraceuticals and herbal remedies for bone health and the probable mechanisms of nutraceuticals in the prevention, treatment, and management of bone-related diseases as well as their curable effects on bone injuries. The volume explains the progression or development of bones, which is a multifaceted process that requires an endless and ample supply of nutrients, such as calcium, phosphorus, potassium, protein, vitamin D, magnesium, and fluoride.

Apple Academic Press
April 2024:366
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* For full contents and more information, visit: www.routledge.com/9781774914502

Preventive and Therapeutic Role of Vitamins as Nutraceuticals



Edited by **Khemchand R. Surana, Eknath D. Ahire, Raj K. Keservani, Rajesh K. Kesharwani**

Series: AAP Advances in Nutraceuticals

Describes the effects of vitamins as nutraceuticals in chronic diseases, such as in treating cancer through antitumor and antioxidant activity, for improving the immunity of patients with HIV and AIDS, for the treatment of tuberculosis, for peptic ulcers, for infectious diseases (including COVID-19), etc. The functional activity of vitamins in brain health, in obesity management, for blindness and vision issues, for baldness, and for skincare issues is also explored. It covers each major vitamin with food sources that play a role in neurodegenerative diseases and, in some cases, how they adversely affect human health.

Apple Academic Press

April 2024:338

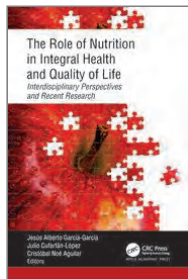
Hb: 978-1-774-91444-1: **£139**

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* For full contents and more information, visit: www.routledge.com/9781774914441

The Role of Nutrition in Integral Health and Quality of Life

Interdisciplinary Perspectives and Recent Research



Edited by **Jesús Alberto García-García, Julio Cufarfan-López, Cristóbal Noé Aguilar**

Explores important advances of the role played by nutrition in creating integral health. It focuses on the challenges arising due to sedentary lifestyle, diseases associated with food consumption, stress from pandemics, and social, economic, environmental, and cultural crises. The chapters present interdisciplinary research that offers outstanding and novel contributions in research studies of integral health and how health is affected by nutrition and its impact on the quality of life. Analysis of obesity and its dimensions, quality of life in adult patients with diabetes, the role of genetics and epigenetics in obesity, and its socioeconomic dimensions are discussed.

Apple Academic Press

February 2024:606

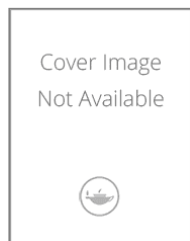
Hb: 978-1-774-91420-5: **£147**

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Advances in Medicinal and Aromatic Plants

Production, Processing, and Pharmaceutics, 2-volume set



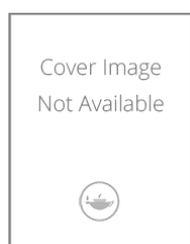
Edited by **Amritesh C. Shukla, Sunita Facknath, Debashis Mandal, Bernadette Montanari**

Provides detailed information on highly demanded and medicinally important plants and their natural habits and habitats, taxonomy, cultivation practices, essential oils, active ingredients, biomolecules, modes of action, drug development, and value additions for marketing purpose. It details the history of many major medicinal and aromatic plants also covering their systematic botany, advanced production and propagation technologies, plant nutrition, moisture management, intercultivation, plant protection, postharvest technology, processing-value addition, and marketing trade.

Apple Academic Press
July 2024:882
Hb: 978-1-774-91488-5: £300

* For full contents and more information, visit: www.routledge.com/9781774914885

Phytochemical and Pharmacological Investigation of the Family Rutaceae



Edited by **Abdur Rauf, Hafiz Ansar Rasul Suleria, Syed Muhammad Mukarram Shah**

Series: Innovations in Plant Science for Better Health: From Soil to Fork

Provides an introduction to the family Rutaceae, which comprises numerous ornamental as well as economically significant fruit-bearing trees with significant phytochemistry and medicinal uses that are important for new drug discovery for pharmaceutical industries, and delineates its phytochemical and pharmacological properties and uses. Also addressed are the nutritional, clinical, and toxicological profiles, elaborating on the nutritional value, healthcare and clinical applications, and possible toxic side effects. The chapters may also direct researchers to isolate/extract pure compounds from family Rutaceae for new and novel drug discoveries.

Apple Academic Press
July 2024:242
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* For full contents and more information, visit: www.routledge.com/9781774913710

SARS-CoV-2 Variants and Global Population Vulnerability

Diagnostic Strategies, Vaccine Development, and Therapeutic Management



Edited by **Vivek P. Chavda, Vladimir N. Uversky**

Provides detailed and systemic information regarding the biology and immunophysiology of SARS-CoV-2 and highlights the global vulnerability of the world population to it. It discusses the diagnostics, vaccine development, and therapeutic management starting from the zoonotic origin, organization, and transmission of SARS-CoV-2, lifestyle and immunophysiology of the virus, detection and diagnosis techniques, and more. It presents strategies for fast-track vaccine development, role of nasal vaccines and nucleic acid vaccines for COVID-19 management, monoclonal antibody therapy, and other alternative remedies for COVID-19 management.

Apple Academic Press
July 2024:612
Hb: 978-1-774-91758-9: £200

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