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Problems and Solutions in Advanced Accounting for CA

Intermediate-Parveen Sharma 2020-03-26 Presented in a question-answer format, "Problems and Solutions in Advanced Accounting for CA Intermediate" is specially designed for the students who are preparing for Group-II, Paper 5: Advanced Accounting. The content has been carefully carved out to cover the problems that are most frequently asked in examinations and are aligned to the syllabus. Care has been taken to include problems of simple as well as complex nature and solutions to most of the problems have been provided in a step-by-step manner which makes it easier for the student to understand the concepts and fetch marks. Salient Features: □ Content is strictly aligned to the topical flow as guided by the syllabus of ICAI. □ Coverage of Questions from RTPs and MTPs of ICAI examination. □ Thoroughly updated content includes latest changes in Accounting and the Companies Act, 2013. □ Questions from previous year ICAI examinations, Revisionary Test Papers (RTPs), Mock Test Papers (MTPs), and other professional bodies have been incorporated to provide enhanced understanding and extensive practice to the students. □ Each chapter is further subdivided in various sections to develop the concepts in a methodical manner.

Problems and Solutions in Accounting for CA Intermediate-Parveen Sharma 2020-03-26 Accounts being a tough practical subject, students find it difficult to keep up with the theoretical concepts and practical problems at the same time. There remains a need for the book which helps students practice ample problems on every topic and be exam ready. Keeping this in mind, the authors present Problems and Solutions in Accounting to cater to the needs of CA Intermediate students appearing for Group-I, Paper 1: Accounting as per the new syllabus scheme of ICAI. The book has been neatly organised into Sections and Sub-sections each dedicated to fundamental topics of Accounting. For easy, navigation through a chapter, the number of problems dedicated to a topic and the type of problems covered have been listed in detail at the beginning. Salient Features: □ Content is strictly aligned to the topical flow as guided by the syllabus of ICAI. □ Coverage of Questions from RTPs and MTPs of ICAI examination. □ Thoroughly updated content includes latest changes in Accounting and the Companies Act, 2013. □ Questions from previous year ICAI examinations, Revisionary Test Papers (RTPs), Mock Test Papers (MTPs), and other professional bodies have been incorporated to provide enhanced understanding and extensive practice to the students. □ Each chapter is further subdivided in various sections to develop the concepts in a methodical manner.

Advances in Computing and Intelligent Systems-Harish Sharma 2020-01-03 This book gathers selected papers presented at the International Conference on Advancements in Computing and Management (ICACM 2019). Discussing current research in the field of artificial intelligence and machine learning, cloud computing, recent trends in security, natural language processing and machine translation, parallel and distributed algorithms, as well as pattern recognition and analysis, it is a valuable resource for academics, practitioners in industry and decision-makers.

Smart Intelligent Computing and Applications-Suresh Chandra Satapathy 2018-10-01 The proceedings covers advanced and multi-disciplinary research on design of smart computing and informatics. The theme of the book broadly focuses on various innovation paradigms in system knowledge, intelligence and sustainability that may be applied to provide realistic solution to varied problems in society, environment and industries. The volume publishes quality work pertaining to the scope of the conference which is extended towards deployment of emerging computational and knowledge transfer approaches, optimizing solutions in varied disciplines of science, technology and healthcare.

Keratin as a Protein Biopolymer-Swati Sharma 2018-11-23 This book provides information about the sources, structure, and properties of keratin as well as its applications. The extraction from different biomass sources (e.g. feathers, hairs, nails, horn, hoof, and claws) as well as the characterization methods of these extracted materials are explained. The development of bioproducts from keratins is challenging and limited since they are neither soluble in polar solvents nor in non-polar solvents. Therefore, the utilization of different microorganisms for the degradation of keratin is also discussed. The main aim of this book is to highlight the unique features of keratin and to update readers with the possible prospects to develop various value-added products from keratins. The book is highly interesting to researchers working in industry and academia on bioproducts, tissue engineering, biocomposites, biofilm, and biofibers.

Consolidation Under Ind As-Parveen Kumar 2016-01-20 About the Book: Publishing consolidated financial statements was not compulsory for Indian companies till last year. The Companies Act 2013 ('Act') mandates preparation of consolidated Financial Statements for all the companies having subsidiaries. The Act also establishes the principle that financial statements shall comply with Accounting Standards. From April 1, 2016 Indian Corporate will be required to implement IFRS (International Financial Reporting Standards) converged Accounting Standards (known as Ind-AS) in phased manner. These new standards bring in subjectivity and complexities posing challenge for preparers, auditors and users of financial statements. This book contains guidance on preparing consolidated financial statements under Ind-AS regime. With practical illustrations it demonstrates how these principles will be applied. With Model Ind-AS accounting policies and illustrative disclosures for few sectors, this book is quite useful for Target Audience. Target Audience: Shareholder, who need to know true and fair picture of financial results of the corporate where he has invested. Director, who is responsible to sign off the financial statements and take all the responsibility along with other board members. CFO and his team, who is responsible for preparation of financial statements. They need support in capturing essence of the regulations, standards and present picture of performance, financial position and change in financial position to the management. Auditor, who is responsible for giving opinion on financial statements need support in understanding various provisions of the Accounting Standards, Company Law and Auditing Standards. Independent Director, who is responsible for approving the financial statements of an entity and need support in understanding the nuances of the legislation.

Recent Trends in Biotechnology and Therapeutic Applications of Medicinal Plants-Mohd. Shahid 2013-05-13 The book provides an overview of current trends in biotechnology and medicinal plant sciences. The work includes detailed chapters on various advance biotechnological tools involved in production of phytoactive compounds of medicinal significance. Some recent and novel research studies on therapeutic applications of different medicinal plants from various geographical regions of the world

have also been included. These studies report the antimicrobial activity of various natural plant products against various pathogenic microbial strains. Informative chapters on recent emerging applications of plant products such as source for nutraceuticals and vaccines have been integrated to cover latest advances in the field. This book also explores the conservation aspect of medicinal plants. Thus, chapters having comprehensively compiled in vitro conservation protocols for various commercially important rare, threatened and endangered medicinal plants were provided in the present book.

Handbook of Sustainable Apparel Production-Subramanian Senthilkannan Muthu 2015-04-28 A hot-button societal issue, sustainability has become a frequently heard term in every industrial segment. Sustainability in apparel production is a vast topic and it has many facets. Handbook of Sustainable Apparel Production covers all aspects of sustainable apparel production including the raw materials employed, sustainable manufacturing processes, and environmental as well as social assessments of apparel production. The book highlights the environmental and social impacts of apparel and its assessment. It explores the complexities involved in implementing sustainable measures in the massive supply chain of apparel production. The discussion then turns to sustainability and consumption behavior of the apparel industry and the assessment of sustainability aspects and parameters. The text details technologies that can pave the way toward sustainability in production and closes with coverage of design aspects, particularly sustainable design/eco design and new approaches to fashion sustainability. A vast and complex topic, sustainability in apparel production has many faces and facets. With contributions from an international panel of experts, this book unites all the elements, including very minute details, and supports them with detailed and interesting case studies. It gives you a framework for moving towards sustainability.

Invasive Alien Plants-J. R. Bhatt 2012 Invasive alien species are a major threat to biodiversity and ecosystems throughout the world. In India, a country with four of the world's most important 'biodiversity hotspots', the invasion of alien plants means risking a national ecological disaster with

major social and economic consequences. Currently, there is insufficient information about invasive alien plants; their distribution, rate of spread and adaptability to new environments. This book reveals existing and potential invaders, evaluates the level of risk they pose to native species and suggests steps to manage spread and limit damage. Invaluable to policy-makers, this book is also required reading for researchers of invasive plants worldwide.

Isolation and Structure Elucidation of Bioactive Compounds (Dedicated to the memory of the late Professor Charles D. Hufford).- Muhammad Ilias 2019 We are very pleased to introduce the Book Version of our Special Issue in *Molecules* dedicated to the memory of the late Professor Dr. Charles D. Hufford. The issue has been a huge success, with 22 full-length peer-reviewed papers and a tribute by Professor Alice M. Clark. Authors, reviewers, and collaborators from many countries across the world have contributed to this endeavour, and we are truly grateful to all. This Special Issue is representative of the broad impact that "Charlie" had on the field of bioactive natural products. This Special Issue comprises papers from Professor Hufford's former students, colleagues, and collaborators throughout the world who have utilized a wide array of state-of-the-art techniques to examine diverse natural sources to isolate and identify a variety of natural products with a wide spectrum of biological activities, including some new microbial transformations and insights into bioactive molecules. Many new bioactive compounds are described and reported here for the first time. Bioactivities reported include cytotoxicity, antimicrobial activity, anti-inflammatory activity, antileishmanial activity, antitrypanosomal activity, antimalarial activity, analgesic activity, and beneficial liver activities, just to name a few. This Special Issue will undoubtedly have a lasting impact on the field of bioactive natural products, as exemplified by the career of Dr. Hufford. Lastly, without the timely and outstanding contributions from all of you, this Special Issue would not have been possible. We thank you all very much for your contributions and your time devoted to this Special Issue in memory of a special person. Finally, we express our gratitude and thanks to the journal *Molecules* and their excellent team of expert reviewers for giving us the support and opportunity to make this Special Issue a huge success!

Crop Improvement-Khalid Rehman Hakeem 2013-06-13 The improvement of crop species has been a basic pursuit since cultivation began thousands of years ago. To feed an ever increasing world population will require a great increase in food production. Wheat, corn, rice, potato and few others are expected to lead as the most important crops in the world. Enormous efforts are made all over the world to document as well as use these resources. Everybody knows that the introgression of genes in wheat provided the foundation for the "Green Revolution". Later also demonstrated the great impact that genetic resources have on production. Several factors are contributing to high plant performance under different environmental conditions, therefore an effective and complementary use of all available technological tools and resources is needed to meet the challenge.

Advances in Computing and Information Technology-Natarajan Meghanathan 2012-08-13 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.

Intelligent Computing and Innovation on Data Science-Sheng-Lung Peng 2020-05-14 This book covers both basic and high-level concepts

relating to the intelligent computing paradigm and data sciences in the context of distributed computing, big data, data sciences, high-performance computing and Internet of Things. It is becoming increasingly important to develop adaptive, intelligent computing-centric, energy-aware, secure and privacy-aware systems in high-performance computing and IoT applications. In this context, the book serves as a useful guide for industry practitioners, and also offers beginners a comprehensive introduction to basic and advanced areas of intelligent computing. Further, it provides a platform for researchers, engineers, academics and industrial professionals around the globe to showcase their recent research concerning recent trends. Presenting novel ideas and stimulating interesting discussions, the book appeals to researchers and practitioners working in the field of information technology and computer science.

Functional Chitosan-Sougata Jana 2020-04-10 Thanks to their unique properties, chitosan and chitosan-based materials have numerous applications in the field of biomedicine, especially in drug delivery. This book examines biomedical applications of functional chitosan, exploring the various functions and applications in the development of chitosan-based biomaterials. It also describes the chemical structure of chitosan and discusses the relationship between their structure and functions, providing a theoretical basis for the design of biomaterials. Lastly, it reviews chemically modified and composite materials of chitin and chitosan derivatives for biomedical applications, such as tissue engineering, nanomedicine, drug delivery, and gene delivery.

Molecular Modeling for the Design of Novel Performance Chemicals and Materials-Beena Rai 2012-03-23 Molecular modeling (MM) tools offer significant benefits in the design of industrial chemical plants and material processing operations. While the role of MM in biological fields is well established, in most cases MM works as an accessory in novel products/materials development rather than a tool for direct innovation. As a result, MM engineers and

Proceedings of the International Conference on Recent Cognizance in Wireless Communication & Image Processing-Nitin Afzalpulkar

2016-04-28 This volume comprises the proceedings of the International Conference on Recent Cognizance in Wireless Communication & Image Processing. It brings together content from academicians, researchers, and industry experts in areas of Wireless Communication and Image Processing. The volume provides a snapshot of current progress in computational creativity and a glimpse of future possibilities. The proceedings include two kinds of paper submissions: (i) regular papers addressing foundation issues, describing original research on creative systems development and modeling; and (ii) position papers describing work-in-progress or research directions for computational creativity. This work will be useful to professionals and researchers working in the core areas of wireless communications and image processing.

Microbial Factories-Vipin Chandra Kalia 2016-02-16 This book highlights the efforts made by distinguished scientific researchers world-wide to meet two key challenges: i) the limited reserves of polluting fossil fuels, and ii) the ever-increasing amounts of waste being generated. These case studies have brought to the foreground certain innovative biological solutions to real-life problems we now face on a global scale: environmental pollution and its role in deteriorating human health. The book also highlights major advances in microbial metabolisms, which can be used to produce bioenergy, biopolymers, bioactive molecules, enzymes, etc. Around the world, countries like China, Germany, France, Sweden and the US are now implementing major national programs for the production of biofuels. The book provides information on how to meet the chief technical challenges – identifying an industrially robust microbe and cheap raw material as feed. Of the various possibilities for generating bioenergy, the most attractive is the microbial production of biohydrogen, which has recently gained significant recognition worldwide, due to its high efficiency and eco-friendly nature. Further, the book highlights factors that can make these bioprocesses more economical, especially the cost of the feed. The anaerobic digestion (AD) process is more advantageous in comparison to aerobic processes for stabilizing biowastes and producing biofuels (hydrogen, biodiesel, 1,3-propanediol, methane, electricity), biopolymers

(polyhydroxyalkanoates, cellulose, exopolysaccharides) and bioactive molecules (such as enzymes, volatile fatty acids, sugars, toxins, etc.) for biotechnological and medical applications. Information is provided on how the advent of molecular biological techniques can provide greater insights into novel microbial lineages. Bioinformatic tools and metagenomic techniques have extended the limits to which these biological processes can be exploited to improve human welfare. A new dimension to these scientific works has been added by the emergence of synthetic biology. The Big Question is: How can these Microbial Factories be improved through metabolic engineering and what cost targets need to be met?

What is Gender?-Mary Holmes 2007-06-18 Is gender something done to us by society, or something we do? What is the relationship between gender and other inequalities? What is Gender? explores these complex and important questions, helping readers to critically analyse how women's and men's lives are shaped by the society in which they live. The book offers a comprehensive account of trends in sociological thinking, from a material and economic focus on gender inequalities to the debates about meaning initiated by the linguistic or cultural turn. The book begins by questioning simplistic biological conceptions of gender and goes on to evaluate different theoretical frameworks for explaining gender, as well as political approaches to gender issues. The cultural turn is also examined in relation to thinking about how gender is related to other forms of inequality such as class and 'race'. The book is up-to-date and broad in its scope, drawing on a range of disciplines, such as: sociology, psychoanalysis, masculinity studies, literary criticism, feminist political theory, feminist philosophy and feminist theory.

Innovation in Electrical Power Engineering, Communication, and Computing Technology-Renu Sharma 2021-03-08 This book features selected high-quality papers from the International Conference on Innovation in Electrical Power Engineering, Communication, and Computing Technology (IEPCCT 2019), held at Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, India, on 13-14 December 2019. Presenting innovations in power, communication, and computing, it covers topics such

as mini, micro, smart and future power grids; power system economics; energy storage systems; intelligent control; power converters; improving power quality; signal processing; sensors and actuators; image/video processing; high-performance data mining algorithms; advances in deep learning; and optimization methods.

Academic Library Impact-Lynn Silipigni Connaway 2017 Best practices developed by the profession in capturing and emphasizing academic libraries' contributions to student learning, success, and experience.

Biodiversity of the Himalaya: Jammu and Kashmir State-Ghulam Hassan Dar 2020-02-26 The Himalaya, a global biodiversity hotspot, sustains about one-fifth of the humankind. Nestled within the north-western mountain ranges of the Himalaya, the Jammu and Kashmir (J&K) State harbours more than half of the biodiversity found in the Indian Himalaya. The wide expanse of State, spread across the subtropical Jammu, through the temperate Kashmir valley, to the cold arid Ladakh, is typical representative of the extensive elevational and topographical diversity encountered in the entire Himalaya. This book, the most comprehensive and updated synthesis ever made available on biodiversity of the J&K State, is a valuable addition to the biodiversity literature with global and regional relevance. The book, arranged into 7 parts, comprises of 42 chapters contributed by 87 researchers, each of whom is an expert in his/her own field of research. The precious baseline data contained in the book would form the foundation for assessing current status of knowledge about the bioresources, identify the knowledge gaps, and help prioritization of conservation strategies to steer the sustainable use of biodiversity in this Himalayan region. Given the breadth of topics covered under the banner of biodiversity in this book, it can surely serve as a model for documentation of biodiversity in other regions of the world. The book will be of immense value to all those who, directly or indirectly, have to deal with biodiversity, including students, teachers, researchers, naturalists, environmentalists, resource managers, planners, government agencies, NGOs and the general public at large.

Perinatal Psychiatry-Carmine M. Pariante 2014 Mental health problems during and immediately after pregnancy are a major concern across the world. As well as affecting the health of the mother, they can have significant, harmful, and long term effects on the infant if not dealt with effectively. Perinatal Psychiatry honors the work of Channi Kumar, one of the seminal figures in the history of perinatal psychiatry, and presents a comprehensive multidisciplinary review of the field. Bringing together the leading researchers in the area, it covers the causes of perinatal mental health problems, the biology of perinatal depression and its more extreme form, puerperal psychosis, as well as psychosocial and psychological interventions, hormonal and neural substrates of perinatal depression, and risk factors and epidemiology.

Microbiological Advancements for Higher Altitude Agro-Ecosystems & Sustainability-Reeta Goel 2020-03-13 The book explores the challenges and opportunities associated with high-altitude agro-ecosystems and the factors that influence them. It discusses the various indigenous agricultural practices and approaches, as well as the microbiology of mountain & hill agro-ecosystems, providing a comprehensive overview of the various factors that control the microbiome at high altitudes. The contributions examine microbiological advances, such as use of "omics" technologies for hill agriculture and environmental sustainability, and explore the use of nanotechnology for agricultural and environmental sustainability at higher altitudes. The book also describes various aspects of low-temperature microbiology in the context of high-altitude farming and environmental sustainability.

Biosurfactants-Naim Kosaric 2014-11-03 Stresses the Potential Applications of Biosurfactants in Various Industries Environmental concerns and a demand for sustainable chemical production have become important issues in recent years. As a result, microbial biosurfactant-producing systems are gaining momentum as potential replacements for chemical surfactants. Biosurfactants: Production and Utilization—Processes, Technologies, and Economics explores the production, utilization, and industrial/economic use of biosurfactants in modern biotechnology. This

book represents comprehensive material developed by contemporary experts in the field. Focusing on research and developments within the last 20 years, it highlights relevant changes in the industry. It provides a detailed account of the current applications of biosurfactants, considers the potential for further environmental, biological, and industrial applications, and concentrates on surfactants and organisms with possibilities for future use. Emphasizes Process Scale-Up and Commercialization Factoring in the industrial application of biosurfactant production based on renewable resources, the book determines how biosurfactants can enhance or replace the properties of chemically synthesized surface-active agents. It discusses moving beyond the laboratory scale of research and development and on to the industrial scale of commercial interest. The book consists of 17 chapters and features expert authors discussing topics that include: Understanding the regulatory processes controlling the production of biosurfactants Strategies for feasible commercial biosurfactant production Examples of cost analysis based on published information The viability of industrial applications in food, cosmetics, and pharmaceuticals Patents for future trends Biosurfactants: Production and Utilization—Processes, Technologies, and Economics contains special sections devoted to the overview and evaluation of specific patents relating to biosurfactants, and methods for production of biosurfactants on a laboratory and industrial/commercial scale. It also presents novel and proven applications for biosurfactants from a number of biotechnology laboratories and research facilities around the world. In addition, it introduces the reader to a variety of real-world industry techniques readily applicable for practical use.

Current Trends in Plant Disease Diagnostics and Management

Practices-Pradeep Kumar 2016-04-20 Plant diseases play an important role on our daily lives. Most of plant diseases are visible and are caused by biotic and/or abiotic factors. Symptoms are usually the results of a morphological change, alteration or damage to plant tissue and/or cells due to an interference of the plant's metabolism. All basic structures of vascular plants are subject to attack by pathogens. The failure in accurate disease diagnosis and management may lead to huge losses in plant production and related commodities, which causes nutritional food scarcity. Typically, the appearance of a biotic symptom will indicate the relatively late stage of an infection and/or colonization of a pathogen. Expert detection, accurate

diagnosis, and timely management play a significant role in keeping plants free from pathogens. In this book expert scholars share their research knowledge and key literature which are vital toward the diagnosis of plant diseases across the globe, addressing traditional plant pathology techniques, as well as advanced molecular diagnostic approach.

Marine Pollution and Microbial Remediation-Milind Mohan Naik

2016-09-23 Marine environment is the largest habitat covering approximately 70% of the total earth surface. Oceans are the main regulatory agent of earth's climate and harbour a huge diversity of living organisms. Marine environment provide a unique ecological niche to different microbes which play a significant role in nutrient recycling as well as various environmental activities. However with rapid industrialization, urbanisation, ship trafficking and mining activities enormous amounts of waste including heavy metals, hydrocarbons, chemicals, dyes, organic load, agriculture waste, pesticides, antifoulants (e.g. tributyltin) and bacterial pathogens have accumulated in marine/estuarine environments over several decades and pose a serious threat to marine macro and micro biota and humans and therefore require special attention. However some natural marine microbes are known to possess diverse resistance mechanisms and degradation pathways to variety of toxic pollutants and these unique characteristics of marine/estuarine bacteria proved to be an ideal tool in bioremediation of contaminated marine and estuarine environmental sites. Reclamation of marine polluted environments using marine microbes has been found to be effective, affordable and ecofriendly technological solution over conventional physical and chemical methods. Objective of this book is focus on marine pollution and application of marine microorganisms in cost effective and ecofriendly methods of pollution abatement.

CRC Concise Encyclopedia of Nanotechnology-Boris Ildusovich

Kharisov 2016-01-06 The CRC Concise Encyclopedia of Nanotechnology sets the standard against which all other references of this nature are measured. As such, it is a major resource for both skilled professionals and novices to nanotechnology. The book examines the design, application, and utilization of devices, techniques, and technologies critical to research at the

Disability and Human Rights-Edurne García Iriarte 2015-10-06

Experienced by more than one billion people worldwide, disability is increasingly recognised as a human rights issue internationally. Completely up to date, Disability and Human Rights draws on cutting edge international research and real life examples to explore the global dimension of disability and to critically review progress on the implementation of the United Nations Convention on the Rights of Persons with Disabilities. This book provides readers with an in-depth exploration of disability across key areas of human rights, including health, education, employment, accessibility and independent living. It demonstrates how these issues are integral to achieving full and equal participation of disabled people in human societies across the life cycle. The book analyses the impact of poverty, the importance of support and the relevance of culture and it maps out how to make disability rights a reality in the coming decades. Chapters are enriched with a wide range of international case examples and questions for reflection to deepen readers' understanding of the material. Students and practitioners from a wide range of backgrounds, including disability studies, human rights, social work and social care will benefit from this much-needed new global perspective on disability.

Ecophysiology and Responses of Plants under Salt Stress-Parvaiz

Ahmad 2012-11-09 This book will shed light on the effect of salt stress on plants development, proteomics, genomics, genetic engineering, and plant adaptations, among other topics. Understanding the molecular basis will be helpful in developing selection strategies for improving salinity tolerance. The book will cover around 25 chapters with contributors from all over the world.

Microorganisms in Saline Environments: Strategies and Functions-

Bhoopander Giri 2019-07-25 This book gathers the latest findings on the microbial ecology of saline habitats, plant-microbe interactions under saline conditions, and saline soil reclamation for agricultural use. The content is divided into four main parts: Part I outlines the definition of salinity, its genesis and impacts, and microbial diversity in saline habitats. Part II deals

with impact of salinity on microbial and plant life/health. Part III highlights plant - microbe interactions in saline environments, and Part IV describes strategies for mitigation and reclamation of saline soils. The salinization of arable land is steadily increasing in many parts of the world. An excessive concentration of soluble salts (salinity) in soils or irrigation water adversely affects plant growth and survival. This problem is exacerbated in arid and semiarid areas due to their low precipitation and high evaporation rates. In turn, poor management practices and policies for using river water for the irrigation of agriculture crops often lead to the secondary salinization of soils. Considering the growing demands of a constantly expanding population, understanding the microbial ecology and interactions under saline conditions and their implications for sustainable agriculture is of utmost importance. Providing both an essential review of the status quo and a future outlook, this book represents a valuable asset for researchers, environmentalists and students working in microbiology and agriculture. .

Cadmium Toxicity and Tolerance in Plants-Mirza Hasanuzzaman

2018-11-28 Cadmium Toxicity and Tolerance in Plants: From Physiology to Remediation presents a single research resource on the latest in cadmium toxicity and tolerance in plants. The book covers many important areas, including means of Cd reduction, from plant adaptation, including antioxidant defense, active excretion and chelation, to phytoextraction, rhizo filtration, phytodegradation, and much more. In addition, it explores important insights into the physiological and molecular mechanisms of Cd uptake and transport and presents options for improving resistance to Cd stresses. It will be ideal for both researchers and students working on cadmium pollution, plant responses and related fields of environmental contamination and toxicology. Includes all aspects of cadmium toxicity and tolerance in plants Provides a comprehensive overview of advances in cadmium toxicity, tolerance and adaptation in plants Elaborates on the advancement of eco-friendly techniques for cadmium remediation from soil and water Provides real-world, application focused techniques

Biomass and Bioenergy-Khalid Rehman Hakeem 2014-08-22 Biomass

obtained from agricultural residues or forest can be used to produce different materials and bioenergy required in a modern society. As

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compared to other resources available, biomass is one of the most common and widespread resources in the world. Thus, biomass has the potential to provide a renewable energy source, both locally and across large areas of the world. It is estimated that the total investment in the biomass sector between 2008 and 2021 will reach the large sum of \$104 billion. Presently bioenergy is the most important renewable energy option and will remain so the near and medium-term future. Previously several countries try to explore the utilization of biomass in bioenergy and composite sector. Biomass has the potential to become the world's largest and most sustainable energy source and will be very much in demand. Bioenergy is based on resources that can be utilized on a sustainable basis all around the world and can thus serve as an effective option for the provision of energy services. In addition, the benefits accrued go beyond energy provision, creating unique opportunities for regional development. The present book will provide an up-to-date account of non-wood, forest residues, agricultural biomass (natural fibers), and energy crops together with processing, properties, and its applications to ensure biomass utilization and reuse. All aspects of biomass and bioenergy and their properties and applications will be critically re-examined. The book consists of three sections, presenting Non wood and forest products from forestry, arboriculture activities or from wood processing, agricultural biomass (natural fibers) from agricultural harvesting or processing and finally energy crops: high yield crops and grasses grown especially for energy production.

Information Systems-Marinos Themistocleous 2017-08-14 This book constitutes selected papers from the 14th European, Mediterranean, and Middle Eastern Conference, EMCIS 2017, held in Coimbra, Portugal, in September 2017. EMCIS is focusing on approaches that facilitate the identification of innovative research of significant relevance to the IS discipline following sound research methodologies that lead to results of measurable impact. The 37 full and 16 short papers presented in this volume were carefully reviewed and selected from a total of 106 submissions. They are organized in sections on big data and Semantic Web; digital services, social media and digital collaboration; e-government; healthcare information systems; information systems security and information privacy protection; IT governance; and management and organizational issues in information systems.

Biology and Ecology of Pharmaceutical Marine Plants-Ramasamy Santhanam 2018 Marine plants such as algae (blue-green algae and seaweeds), seagrasses, mangrove plants, salt-tolerant or salt-loving plants (halophytes) and coastal sand dune plants are known to generate approximately 70% of oxygen on earth, and help regulate oxygen in the atmosphere. These plants are potential sources of nutrients and are also considered valuable for the development of new drugs owing to their unique bioactive compounds. This book provides the taxonomy, common name, global distribution, habitat, diagnostic features and pharmaceutical compounds (along with their activities) of 400 species of marine plants, accompanied by high quality illustrations. Biology and Ecology of Pharmaceutical Marine Plants is the first comprehensive book of its kind written by scientists from both the Marine Biology and Pharmacy disciplines to fill the long-felt need for a marine natural products book devoted exclusively to plants. It should be a standard reference for students, researchers and teachers of disciplines such as Pharmacy, Fisheries Science, Marine Biology, Life Sciences, Biotechnology and Biochemistry, as well as a valuable guide for pharmaceutical companies involved in the development of new drugs from marine plants.

ADVANCED MANAGEMENT ACCOUNTING-Ravi M. Kishore 2007 A comprehensive and authentic Text Book on ADVANCED MANAGEMENT ACCOUNTING (Cost Management) * An authentic, simple and crisp presentation of the subject matter. * Theoretical questions are given at the end of respective chapters in chronological order. * Fully solved problems are given at the end of respective chapters. This will help students in self-preparation. * The Book takes accounts of recent developments on the subject with special emphasis on Responsibility Accounting, Transfer Pricing, Total Quality Management, Activity Based Costing, Life Cycle Costing, Capacity Management, Just in Time, Target Costing etc. * Point-wise presentation of Text portion with bullets to understand and memorise the subject matter. * Examination orientation makes the book more student friendly. * Concepts are explained with number of illustrations and also number of diagrams are given for clear understanding of subject matter. * The language of the Book is simple and treatment of the subject lucid. Both

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theory and practice are given equal importance. * All topics, illustrations, problems, tables and diagrams are distinctively numbered for easy location. * The Book will also be of interest to Practising Professionals, Business and Government officials for efficient discharge of their functions.

Nanomaterials for Solar Cell Applications-Sabu Thomas 2019-06-12
Nanomaterials for Solar Cell Applications provides a review of recent developments in the field of nanomaterials based solar cells. It begins with a discussion of the fundamentals of nanomaterials for solar cells, including a discussion of lifecycle assessments and characterization techniques. Next, it reviews various types of solar cells, i.e., Thin film, Metal-oxide, Nanowire, Nanorod and Nanoporous materials, and more. Other topics covered include a review of quantum dot sensitized and perovskite and polymer nanocomposites-based solar cells. This book is an ideal resource for those working in this evolving field of nanomaterials and renewable energy. Provides a well-organized approach to the use of nanomaterials for solar cell applications Discusses the synthesis, characterization and applications of traditional and new material Includes coverage of emerging nanomaterials, such as graphene, graphene-derivatives and perovskites

Himalayan Phytochemicals-Sumira Jan 2018-04-10
Himalayan Phytochemicals: Sustainable Options for Sourcing and Developing Bioactive Compounds provides a detailed review of the important medicinal plants which have already been discovered in the Himalayan region, outlining their discovery, activity and underlying chemistry. In addition, it supports a global shift towards sustainable sourcing of natural products from delicate ecosystems. Across the world, environmental destruction and overharvesting of medicinal plants are reducing and destroying multiple important sources and potential leads before researchers have the chance to discover, explore or synthesize them effectively. By identifying this problem and discussing its impact on the Himalayan region, Himalayan Phytochemicals: Sustainable Options for Sourcing and Developing Bioactive Compounds frames the ongoing global struggle and highlights the key factors that must be considered and addressed when working with phytochemicals from endemic plant sources. Reviews both well-known and recently discovered plants of this region Highlights methods for

phytochemical extraction and analysis Provides context to support a shift towards sustainable sourcing of natural products

Judging the State-Paula R. Newberg 2002-05-16
This original study of the relationship between state and civil society in Pakistan demonstrates how the courts have influenced constitutional development and state structure.

Magnetoelectric Composites-Mirza I. Bichurin 2019-02-22
This book is dedicated to modeling and application of magnetoelectric (ME) effects in layered and bulk composites based on magnetostrictive and piezoelectric materials. Currently, numerous theoretical and experimental studies on ME composites are available but few on the development and research of instruments based on them. So far, only investigation of ME magnetic field sensors has been cited in the existing literature. However, these studies have finally resulted in the creation of low-frequency ME magnetic field sensors with parameters substantially exceeding the characteristics of Hall sensors. The book presents the authors' many years of experience gained in ME composites and through creation of device models based on their studies. It describes low-frequency ME devices, such as current and position sensors and energy harvesters, and microwave ME devices, such as antennas, attenuators, filters, gyrators, and phase shifters.

Synthetic Seeds-Mohammad Faisal 2019-11-23
This book introduces the reader to synthetic or artificial seeds, which refer to alginate encapsulated somatic embryos, vegetative buds or any other micropropagules that can be used as seeds and converted into plantlets after propagating under in vitro or in vivo conditions. Moreover, synthetic seeds retain their potential for regeneration even after low-temperature storage. The production of synthetic or artificial seeds using micropropagules opens up new vistas in agricultural biotechnology. Encapsulated propagules could be used for in vitro regeneration and mass multiplication at reasonable cost. In addition, these propagules may be used for germplasm preservation of elite plant species and the exchange of plant materials between national and international laboratories. This book offers state-of-the-art findings on

methods, applications and prospects of synthetic or artificial seeds.