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for leadership in the digital age Advances in Agronomy Agronomic Crops Deregulated
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Input Use Efficiency for Food and Environmental Security

2022-01-11

ending hunger achieving food security and promoting sustainable development are at the top of the list of united nations un sustainable global development priorities in the times of high population growth and increasing pressure of agricultural systems efficiency in use of natural resources has been at the epicenter of sustainable agricultural the concept of input efficiency implies production of high quantity and quality of food from using only finite natural resources as inputs in the form of mainly land water nutrients energy or biological diversity in this book editors provide a roadmap to the food nutritional and environmental security in the agricultural systems they share insight into the approaches that can be put in practice for increasing the input use efficiency in the cropping systems and achieve stability and sustainability of agricultural production systems this book is of interest to teachers researchers climate change scientists capacity builders and policymakers also the book serves as additional reading material for undergraduate and graduate students of agriculture agroforestry agroecology and environmental sciences national and international agricultural scientists policymakers will also find this to be a useful read

Nitrogen Assessment

2021-11-23

nitrogen assessment pakistan as a case study provides a detailed overview of issues and challenges related to nitrogen use and overuse thus serving as a reference for researchers in pakistan and providing important insights for other geographic regions excess and inefficient nitrogen use in crops and livestock sectors is polluting our rivers seas atmosphere and ecosystems contributing to climate change hampering biodiversity and contributing to stratospheric ozone depletion this book covers the importance of nitrogen in relation to food security human health and economic stability in south asia it also discusses nitrogen status sources sinks and drivers of nitrogen use in pakistan focusing on current nitrogen measures and policies nitrogen pollution is one of the biggest challenges of 21st century and the international scientific community is beginning to recognize the significance of nitrogen pollution and to explore how to combat it the editors institution university of agriculture faisalabad partners with south asia nitrogen hub which includes about 30 organizations from south asia and uk working on nitrogen assessment budgeting awareness and policy guidance as well as possible measures to reduce nitrogen pollution nitrogen assessment pakistan as a case study provides an important guide to this work and is written in a way that is accessible to an audience with a wide range of experience from advanced students to seasoned researchers presents an excellent compilation of research based findings in the first comprehensive assessment of nitrogen use in pakistan offers a detailed and comprehensive compilation of data and content from a variety of sources analyzes important translational insights for other geographic regions seeking to maximize nutrient use efficiency

Advances in Agronomy

2023-02-08

advances in agronomy volume 178 the latest release in this leading reference on agronomy contains a variety of updates and highlights new advances in the field with each chapter written by an international board of authors includes numerous timely

2023-05-19

2/15

basics of civil engineering
drawing by zahid

state of the art reviews on the latest advancements in agronomy features distinguished well recognized authors from around the world builds upon this venerable and iconic review series covers the extensive variety and breadth of subject matter in the crop and soil sciences

Genome Editing in Plants

2021-07-25

genome editing in plants principles and applications addresses the information of genome editing starting from principles and historical aspects to the latest advancements in the field as genome editing technology has emerged as promising and cutting edge researchers around the world have started producing original research outputs which have significantly improved our current understanding and potential of this technology the initial chapters of this book describe different genome editing tools as well as their principles and applications other chapters are dedicated to the present status and future applications of genome editing techniques in various crop improvement programmes some of the advanced applications of crispr cas tools such as base editing and rna detection along with regulatory aspects of genome edited crops are described in detail this book serves as a valuable resource to researchers in the field of crop improvement graduate and postgraduate students engaged in plant molecular biology and biotechnology academicians and policy makers key features addresses topics associated with historical development and principles of genome editing technology addresses basic mechanisms operating under each genome editing technology addresses its application in plants to design crops as per the current and future demands addresses the regulatory mechanisms of genome edited crops

Engineering Chemistry Laboratory Manual

2019-03-20

life is impossible without chemistry engineering chemistry has a special role to play in the curriculum of under graduate students of all branches of engineering the present book entitled engineering chemistry laboratory manual is very useful to engineering students of various institutions the practical book providing simple and easy approach on the subject matter to engineering students

AI-Centric Smart City Ecosystems

2022-12-30

over the next few years smart city technologies will be rolled out and the iot devices and ai centric systems will provide even more far reaching connectivity this book presents various concepts in the design and development of a smart city and methodologies and solutions involved in designing contemporary infrastructure for building smart cities around the world the book will focus mainly on six areas of smart city infrastructures smart city entities iot based solutions ai centric control systems smart systems cybersecurity mechanisms data science and cloud computing for the deployment of the smart ecosystem ai centric smart city ecosystem technologies design and implementation will discuss the role of ai centric innovative systems and beyond intelligent solutions in the smart city framework readers will discover how to apply design principles and technologies for operating intelligent cities and develop an understanding of how to integrate ai based control systems to make systems smarter the book will present various concepts in the design and development of smart cities and methodologies and solutions involved in

2023-05-19

3/15

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designing modern infrastructure also readers can discover how to develop applications and connect the iot devices for collecting and mining real time data and uncover the challenges and techniques for improving the automatic operation in the smart city by using high tech solutions this book is intended to serve the needs of the industry engineers professionals researchers and master s and doctoral students studying emerging technologies in smart city ecosystems

Thinking the Unthinkable: A new imperative for leadership in the digital age

2018-06-08

executive leadership faces new vulnerabilities many leaders privately concede them but few are willing to talk publicly about them unthinkable events since 2014 have revealed a new leadership fragility at the highest levels and the pace of change in 2017 shows that the uncertainties are greater than ever is this the new normal thinking the unthinkable is an investigation into why leaders have appeared more unable or unwilling than ever to anticipate the biggest issues of our time in an era of wicked problems why are current leadership behaviours and culture apparently not fit for purpose what are the causes of so many failures in policy and strategic forecasting are they human frailties or are they systemic failures to embrace smartly new realities through hundreds of interviews and conversations nik gowling and chris langdon have analysed the deep new challenges to the human capacity of leaders at the highest keels to accept understand embrace then handle the extraordinary processes of change and disruption this essential book draws on the candid responses the findings are scary and disconcerting

Advances in Agronomy

2018-02-14

advances in agronomy continues to be recognized as a leading reference and first rate source for the latest research in agronomy each volume contains an eclectic group of reviews by leading scientists throughout the world as always the subjects covered are rich varied and exemplary of the abundant subject matter addressed by this long running serial includes numerous timely state of the art reviews on the latest advancements in agronomy features distinguished well recognized authors from around the world builds upon this venerable and iconic review series covers the extensive variety and breadth of subject matter in the crop and soil sciences

Agronomic Crops

2019-11-23

agronomic crops have provided food beverages fodder fuel medicine and industrial raw materials since the beginning of human civilization more recently agronomic crops have been cultivated using scientific rather than traditional methods however in the current era of climate change agronomic crops are suffering from different environmental stresses that result in substantial yield loss to meet the food demands of the ever increasing global population new technologies and management practices are being adopted to boost yields and maintain productivity under both normal and adverse conditions further in the context of sustainable agronomic crop production scientists are adopting new approaches such as varietal development soil management nutrient and water management and pest management researchers have also made remarkable advances in developing stress tolerance in crops however the search

for appropriate solutions for optimal production to meet the increasing food demand is still ongoing although there are several publications on the recent advances in these areas there are few comprehensive resources available covering all of the recent topics this timely book examines all aspects of production technologies management practices and stress tolerance of agronomic crops

Deregulated Electricity Market

2022-10-13

energy demand will increase by 70 by the year of 2030 and with the continual day by day depletion of traditional energy sources there is a vast need to continue the development of dependable renewable energy sources that are locally available and that enhance energy generation efficiency this important resource presents the topical issues of the deregulated electricity market focusing on the integration of renewable sources with engineering approaches the volume identifies and explores the deregulated electricity markets and looks at different renewable generation techniques and their operation and control issues it considers the various power quality issues with renewable energy generation interfaced with smart grids and their solution techniques it also addresses the various integration challenges of energy storage systems and energy management of electric vehicles in the smart grid environment topics include methods for frequency angle and voltage monitoring in smart grids load frequency and voltage control pricing grid integration of wind energy generation systems tracking and management techniques performance analysis and more this volume is an important resource for scientists researchers students and academicians across the globe concerned with adopting and implementing novel research on smart power grids and renewable energy systems

AI-Driven Digital Twin and Industry 4.0

2024-06-19

this book presents the role of ai driven digital twin in the industry 4 0 ecosystem by focusing on smart manufacturing sustainable development and many other applications it also discusses different case studies and presents an in depth understanding of the benefits and limitations of using ai and digital twin for industrial developments ai driven digital twin and industry 4 0 a conceptual framework with applications introduces the role of digital twin in smart manufacturing and focuses on the digital twin framework throughout it provides a summary of the various ai applications in the industry 4 0 environment and emphasizes the role of advanced computational and communication technologies the book offers demonstrative examples of ai driven digital twin in various application domains and includes ai techniques used to analyze the environmental impact of industrial operations along with examples the book reviews the major challenges in the deployment of ai driven digital twin in the industry 4 0 ecosystem and presents an understanding of how ai is used in the designing of digital twin for various applications the book also enables familiarity with various industrial applications of computational and communication technologies and summarizes the ongoing research and innovations in the areas of ai digital twin and smart manufacturing while also tracking the various research challenges along with future advances this reference book is a must read and is very beneficial to students researchers academicians industry experts and professionals working in related fields

Tax laws and practice

2022-09-30

cloud computing has experienced explosive growth and is expected to continue to rise in popularity as new services and applications become available as with any new technology security issues continue to be a concern and developing effective methods to protect sensitive information and data on the cloud is imperative cloud security concepts methodologies tools and applications explores the difficulties and challenges of securing user data and information on cloud platforms it also examines the current approaches to cloud based technologies and assesses the possibilities for future advancements in this field highlighting a range of topics such as cloud forensics information privacy and standardization and security in the cloud this multi volume book is ideally designed for it specialists web designers computer engineers software developers academicians researchers and graduate level students interested in cloud computing concepts and security

Cloud Security: Concepts, Methodologies, Tools, and Applications

2019-04-01

haryana shikshak patrata pariksha level 2 class vi viii ganit 15 practice sets

Haryana Shikshak Patrata Pariksha Level-2 Class (VI-VIII) Ganit 15 Practice Sets-Competitive Exam Book 2021

2021-01-19

refinement in sequencing technologies and potential of genomic research resulted in meteoric growth of biological information such as sequences of dna rna and protein requiring databases for efficient storage management and retrieval of the biological information also computational algorithms for analysis of these colossal data became a vital aspect of biological sciences the work aims to show the process of turning bioscience innovation into companies and products covering the basic science the translation of science into technology due to rapid developments there seems to be no basic difference between the pharmaceutical industry and the biotechnological industry however approved products in the pipeline and renewed public confidence make it one of the most promising areas of economic growth in the near future india offers a huge market for the products as well as cheap manufacturing base for export the book is a sincere work of compilation of new and recent advances in the topic of concern through various innovative researches and scientific opinion therefrom the book is dedicated to the readers who will definitely find it interesting and knowledgeable in carrying out their respective researches in different aspects of applied microbiology and biotechnology

Plant Biotechnology: Progress in Genomic Era

2019-11-14

plant small rna biogenesis regulation and application describes the biosynthesis of small rna in plant systems with an emphasis on the various molecular mechanisms affected by small rna and their applications in supporting plant growth and survival this books presents the basics and most recent advancements in small rna mediated plant genomics metabolomics proteomics and physiology in addition it emphasizes the

2023-05-19

6/15

various molecular mechanisms affected by small rna and their applications in supporting plant growth and survival final sections cover the most recent advancements in small rna mediated plant genomics metabolomics proteomics and physiology presents foundational information about small rna biology and regulation in plants includes small rna pathway advances describes the application and scope of small rna technology for agricultural stability

Plant Small RNA

2020-02-19

company law by dr o p gupta is a publication of the sbpd publishing house agra dr o p gupta holds a m com ll b ex f c s and ph d degree he was a reader at the p g d a v college university of delhi new delhi

Company Law

2020-06-10

enzymes in the valorization of waste next gen technological advances for sustainable development of enzyme based biorefinery focusses on key enzymes which are involved in the development of integrated biorefinery it highlights the modern next gen technologies for promoting the application of sustainable and greener enzymatic steps at industrial scale for the development of futuristic and self sustainable consolidated integrated biorefinery enzyme based biorefinery it also deals with technological advancement for improvement of enzyme yield or specificity conversion capability such as protein and metabolic engineering and advances in next generation technologies and so forth features explores all modern day technologies that can potentially be used in enzyme based biorefinery conversion of wastes to value added products covers technological economic and environmental assessments of enzyme based biorefinery prospects deliberates all possible products that can be generated from wastes including biofuel and essential chemicals illustrates techniques for enhanced yield and properties to be used in various industrial applications reviews advanced information of relevant sources and mechanism of enzymes this book is aimed at graduate students researchers and related industry professionals in biochemical engineering environmental science wastewater treatment biotechnology applied microbiology biomass based biorefinery biochemistry green chemistry sustainable development waste treatment enzymology microbial biotechnology and waste valorization

Enzymes in the Valorization of Waste

2022-12-19

the book is very useful for researchers graduate students and educators associated with or interested in recent advances in different aspects of modelling computational methods and techniques necessary for solving problems arising in the real world problems the book includes carefully peer reviewed research articles presented in the 5th international conference on mathematical modelling applied analysis and computation held at jecrc university jaipur during 4 6 august 2022 concentrating on current advances in mathematical modelling and computation via tools and techniques from mathematics and allied areas it is focused on papers dealing with necessary theory and methods in a balanced manner and contributes towards solving problems arising in engineering control systems networking system environment science health science physical and biological systems social issues of current interest etc

Advances in Mathematical Modelling, Applied Analysis and Computation

2023-04-12

nanoscience technology is playing a vital role in multidisciplinary research due to its unique characteristics at nanoscale as compared to bulk materials in view of such excellent properties like high surface area semiconducting nature and non toxicity nanotechnology has emerged as a promising means to curb pollution liquid and crystal nanomaterials aim for products and processes that are ecofriendly economically sustainable safe and energy efficient one of the most popular fields widely adopted is photocatalysis of nanomaterials that involves photo conduction in efficient removal degradation of noxious pollutants this book focuses on generation of liquid and crystal nanomaterials for environmental remediation

Liquid and Crystal Nanomaterials for Water Pollutants Remediation

2022-07-07

business studies 12 a book contents 1 nature and significant of management 2 principles of management 3 business environment 4 planning 5 organisation 6 staffing 7 directing 8 controlling 9 business finance 10 financial market 11 marketing 12 consumer protection 13 project work and assignment

Business Studies Class 12 based on NCERT Guidelines 1. Principles & Function Of Management 2. Business Finance And Marketing

2022-07-15

as a substrate cellulose plays a crucial role in the biomass based biofuel production process and is essential to enzyme and sugar production accordingly ensuring maximum availability of cellulose for enzyme production and bioconversion for sugar generation is one of the major challenges for sustainable biofuels production to date there has been extensive research on biofuel production using lignocellulosic biomass but there is a huge gap when it comes to the critical analysis of cellulose content structural feasibility availability and economic processing so that it can be converted for enzyme and fuel production at low cost consequently this book discusses the availability of lignocellulosic substrate for biofuel production in light of the challenges that the biofuels industry is currently facing after identifying the major substrate selection challenges for the practical biofuel production process the book addresses said challenges by focusing on various issues such as potential substrates that have high cellulosic content structural feasibility and low cost effective processing to remedy the structural complexity of biomass structure and create added value in addition it covers recent advancements in cellulase production and outlines future prospects given its scope it offers a valuable guide for research students and industry practitioners alike

Substrate Analysis for Effective Biofuels Production

2020-01-31

this book is meant for diploma degree student of metallurgical engineering for their
2023-05-19
8/15
basics of civil engineering
drawing by zahid

academic programs as well as for various competitive examination for securing jobs this book has been structured in three section first section contains multiple choice type questions of various subjects of metallurgical engineering second section contains chapter wise question of gate graduate aptitude test in engineering from 1991 to 2016 third section contains short questions answers in metallurgical engineering fourth section contains appendices containing glossary of terms related to metallurgical engineering and q a of gate 2017 this book has been designed to serve as hand book of metallurgical engineering which will be useful for various competitive examinations for recruitment in various public sector private sector companies as well as for gate examination question have been arranged subject wise and answers are given at the bottom of the page

Khanna's Multichoice Questions & Answers in Metallurgical Engineering

2017

corporate law by dr o p gupta is a publication of the sbpd publishing house agra dr o p gupta holds a m com ll b ex f c s and phd degree he was a reader at the p g d a v college university of delhi new delhi the authors have tried to present the subject of corporate law in a simple and clear language the difficult provisions of corporate law have been illustrated with the help of indian and international cases decided by the law courts for thematic unity the subject has been discussed topic wise but for ready reference relevant sections have been quoted important questions asked in various examinations have been given at the end of each chapter to make the book more useful objective type questions with their answers have also been given at the end of each chapter the book has been written primarily for the students preparing for b com examination and examinations conducted by other professional bodies as well

Corporate Law

2020-08-06

the crystallization process may be used in chemistry physics or materials science to prepare materials for special applications such as batteries fuel cells and optics in chemistry and physics researchers prepare polycrystalline powders or thin films in biology and pharmacology proteins and drugs are obtained as polycrystalline powder and their structures are determined by x ray powder diffraction or neutron diffraction the synthesis of polycrystalline powder or thin films depends on several factors such as temperature pressure and operating parameters this book discusses the phenomenon of crystallization in several fields and applications

Crystallization and Applications

2022-03-30

this edited book focus on highlighting the evolution of indian agriculture over the past 75 years of independence covering every sector viz crop science horticulture management of biotic abiotic stress post harvest quality management livestock fisheries mechanization marketing and human resource development the book has 30 chapters from most experienced researchers and academicians who are actively engaged in research work on the subject area of the book the book is in line with the strategy for new india 75 brought out by niti ayog it highlights india s success stories in innovation technology enterprise and efficient management together to

achieve overall growth while making available food required nutrition and others ecological services it also assesses the india's preparedness in terms of commitment toward sustainable development goal sdg the book is a relevant reading material for both students and researchers and policy makers

Trajectory of 75 years of Indian Agriculture after Independence

2023-08-28

majoritarian state traces the ascendance of hindu nationalism in contemporary india led by prime minister narendra modi the bjp administration has established an ethno religious and populist style of rule since 2014 its agenda is also pursued beyond the formal branches of government as the new dispensation portrays conventional social hierarchies as intrinsic to indian culture while condoning communal and caste and gender based violence the contributors explore how hindutva ideology has permeated the state apparatus and formal institutions and how hindutva activists exert control over civil society via vigilante groups cultural policing and violence groups and regions portrayed as enemies of the indian state are the losers in a new order promoting the interests of the urban middle class and business elites as this majoritarian ideology pervades the media and public discourse it also affects the judiciary universities and cultural institutions increasingly captured by hindu nationalists dissent and difference silenced and debate increasingly sidelined as the press is muzzled or intimidated in the courts internationally the bjp government has emphasised hard power and a fast expanding security state this collection of essays offers rich empirical analysis and documentation to investigate the causes and consequences of the illiberal turn taken by the world's largest democracy

Majoritarian State

2019-07-01

this book proposes new technologies and discusses future solutions for ict design infrastructures as reflected in high quality papers presented at the 4th international conference on ict for sustainable development ict4sd 2019 held in goa india on 5-6 july 2019 the conference provided a valuable forum for cutting edge research discussions among pioneering researchers scientists industrial engineers and students from all around the world bringing together experts from different countries the book explores a range of central issues from an international perspective

ICT Systems and Sustainability

2020-02-28

smart cities policies and financing approaches and solutions is the definitive professional reference for harnessing the full potential of policy making and financial planning in smart cities it covers the effective tools for capturing the dynamic relations between people policies financing and environments and where they are most often useful and effective for all relevant stakeholders the book examines the key role of science technology and innovation sti especially in information and communications technologies in the design development and management of smart cities policies and financing it identifies the problems and offers practical solutions in implementation of smart infrastructure policies and financing smart cities policies and financing is also about how the implementation of smart infrastructure projects

related to the challenges of the lack of financing and the application of suitable policies underlines the key roles of science technology and innovation sti communities in addressing these challenges and provides key policies and financing that will help guide the design and development of smart cities brings together experts from academia government and industry to offer state of the art solutions for improving the lives of billions of people in cities around the globe creates awareness among governments of the various policy tools available such as output based contracting public private partnerships procurement policies long term contracting and targeted research funds in order to promote smart infrastructure implementation and encouraging the use of such tools to shape markets for smart infrastructure and correct market failures ensures the inclusiveness of smart city projects by adequately addressing the special needs of marginalized sections of society including the elderly persons with disabilities and inhabitants of informal settlements and informal sectors ensures gender considerations in the design of smart cities and infrastructure through the use of data generated by smart systems to make cities safer and more responsive to the needs of women demonstrate practical implementation through real life case studies enhances reader comprehension using learning aids such as hands on exercises checklists chapter summaries review questions and an extensive appendix of additional resources

Smart Cities Policies and Financing

2022-01-19

the use of computers and other technology introduces a range of risks to electoral integrity cybersecurity for elections explains how cybersecurity issues can compromise traditional aspects of elections explores how cybersecurity interacts with the broader electoral environment and offers principles for managing cybersecurity risks

Cybersecurity for Elections

2020-05-01

the partition of british india in 1947 set in motion events that have had far reaching consequences in south asia wars military tensions secessionist movements and militancy terrorism this book looks at key events in 1947 and explores the aftermath of the partition and its continued impact in the present day understanding of nationhood and identity it also examines the diverse and fractured narratives that framed popular memory and understanding of history in the region the volume includes discussions on the manner in which regions such as the punjab sindh kashmir bengal uttar pradesh lucknow and north east india were influenced it deals with issues such as communal politics class conflict religion peasant nationalism decolonization migration displacement riots the state of refugees women and minorities as well as the political relationship between india pakistan and bangladesh drawing on major flashpoints in contemporary south asian history along with representations from literature art and popular culture this book will interest scholars of modern indian history partition studies colonial history postcolonial studies international relations politics sociology literature and south asian studies

Partition of India

2018-11-20

this book gathers outstanding research papers presented in the international

2023-05-19

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drawing by zahid

conference on computational intelligence and emerging power system iccips 2021 held on march 9 10 2021 at engineering college ajmer iccips 2021 is jointly organized by the department of cse and department of ee engineering college ajmer rajasthan india the topics covered in the book are collective intelligence soft computing optimization cloud computing machine learning intelligent software robotics data science data security big data analytics natural language processing renewable energy signal processing optimization methods for power system smart grid micro grid energy management power system monitoring system load management and distributed generation

Proceedings of International Conference on Computational Intelligence and Emerging Power System

2021-12-13

goyal s isc accounts question bank with model test papers for class 12 semester 2 examination 2022 cisce s modified assessment plan for academic year 2021 22 reduced and bifurcated syllabus for semester 2 examination chapterwise summary and important points chapterwise question bank having all varieties of expected questions with answers for semester 2 examination to be held in march april 2022 specimen question paper solved for semester 2 examination issued by cisce 5 model test papers based on the latest specimen question the paper issued by cisce for semester 2 examination to be held in march april 2022 goyal brothers prakashan

Goyal's ISC Accounts Question Bank with Model Test Papers for Class 12 Semester 2 Examination 2022

2022-01-01

vyapaarik sangathan avam patr vyavhaar business organisation and correspondence by dr o p gupta is a publication of the sbpd publishing house agra about the publisher sbpd publishing house based in agra is one of the pioneering publishers of india who deal in educational books they strive to serve excellence with their publication and it is a constant effort by the team to provide the readers with the best quality content that is written by reputed authors and edited by professionals

Vyapaarik Sangathan Avam Patr Vyavhaar (Business Organisation and Correspondence)

2020-06-29

medical imaging technologies play a significant role in visualization and interpretation methods in medical diagnosis and practice using decision making pattern classification diagnosis and learning progressions in the field of medical imaging lead to interdisciplinary discovery in microscopic image processing and computer assisted diagnosis systems and aids physicians in the diagnosis and early detection of diseases histopathological image analysis in medical decision making provides emerging research exploring the theoretical and practical applications of image technologies and feature extraction procedures within the medical field featuring coverage on a broad range of topics such as image classification digital image analysis and prediction methods this book is ideally designed for medical professionals system engineers medical students researchers and medical practitioners seeking current research on problem oriented processing techniques in imaging technologies

Histopathological Image Analysis in Medical Decision Making

2018-09-21

this book is an advanced textbook and a reference book for the post graduate plant breeding students and the plant breeders it consolidates fundamental concepts and also the latest advances in plant breeding practices including development in crop genomics it contains crop wise explanation on origin reproduction genetics of yield contributing traits biotic and abiotic stresses nutritional improvement and crop specific plant breeding procedures and techniques the chapters are planned to describe crop focused breeding procedure for the major crop plants as per their economic importance the recent developments in breeding of field crops have been reported the recent progress made in mapping traits of economic importance has been critically reviewed for each crop the progress made in markers assisted selected in few crops has been summarized this book bridges the knowledge gap and bring to the researchers and students information on modern breeding tools for developing biotic and abiotic stress tolerant climate resilient and micronutrient rich varieties of field crops the chapters in book are contributed by experienced plant breeders

Fundamentals of Field Crop Breeding

2022-05-05

microbial ecology of wastewater treatment plants presents different methods and techniques used in microbial ecology to study the interactions and evolution of microbial populations in wwtps particularly the new molecular tools developed in the last decades these molecular biology based methods e g studies of dna rna and proteins provide a high resolution of information compared to traditional ways of studying microbial wastewater populations such as microscopic examination and culture based methods in addition this book addresses the ability of microorganisms to degrade environmental pollutants describes application of different omics tools in wastewater treatment plants wwtps demonstrates the role of microorganisms in wwtps includes discussions on the microbial ecology of wwtps covers the microbial diversity of activated sludge emphasizes cutting edge molecular tools

Microbial Ecology of Wastewater Treatment Plants

2021-05-15

this book provides an in depth overview of marine greens and their environmental and biotechnological applications it addresses concepts such as the niche adaptation strategies of marine greens in their natural habitats as well as their global distribution and factors affecting their distribution and proliferation marine greens are posited as an alternative to fossil fuels mitigating global climate change and thereby fostering future environmental sustainability in addition the book explains the remediation of xenobiotics wastewater microplastics marine debris and marine green contamination expert authors from around the world explore the industrial and agricultural applications of marine greens in the production of enzymes and marine bioenergy and what is needed to improve its production potential this is important reading for government and non governmental organizations as well as industries and research institutions looking for ways to combat current industrial and environmental challenges

Marine Greens

2024-03-27

this book comprises selected proceedings of the international conference on recent advancements in civil engineering and infrastructural developments icraceid 2019 the contents are broadly divided into five areas i smart transportation with urban planning ii clean energy and environment iii water distribution and waste management iv smart materials and structures and v disaster management the book aims to provide solutions to global challenges using innovative and emerging technologies covering various fields of civil engineering the major topics covered include urban planning transportation water distribution waste management disaster management environmental pollution and control environmental impact assessment application of gis and remote sensing and structural analysis and design given the range of topics discussed the book will be beneficial for students researchers as well industry professionals

Current advances in genomics and gene editing tools for crop improvement in a changing climate scenario

2023-07-10

Advances in Civil Engineering and Infrastructural Development

2020-11-13

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