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Herbicides - Andrew Price 2013-06-12
Herbicide use is a common component of many weed management strategies in both agricultural and non-crop settings. However, herbicide use practices and recommendations are continuously updated and revised to provide control of ever-changing weed compositions and to preserve efficacy of current weed control options. Herbicides - Current Research and Case Studies in Use provides information about current trends in herbicide use and weed control in different land and aquatic settings as well as case studies in particular weed control situations.
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
Kenya Gazette - 1986-06-27
The Kenya Gazette is an official publication of the government of the Republic of Kenya. It contains notices of new legislation, notices required to be published by law or policy as well as other announcements that are published for general public information. It is published every week, usually on Friday, with occasional releases of special or supplementary editions within the week.
Emerging Synthesis Techniques for Luminescent Materials - Tiwari, Ratnesh 2018-05-19
The design and study of materials is a pivotal component to new discoveries in the various fields of science and technology. By better understanding the components and structures of materials, researchers can increase their applications across different industries. Emerging Synthesis Techniques for Luminescent Materials is a critical scholarly resource that explores the important field of emerging synthesis techniques of luminescent materials and its practical applications. Featuring coverage on a broad range of topics such as electroluminescence, glow curve analysis, and upconversion, this book is geared towards engineers, academics, researchers, students, professionals, and practitioners seeking current research on photoluminescence and the study of rare earth doped phosphors.
Applied Science & Technology Index - 1996

Bioremediation and Phytoremediation Technologies in Sustainable Soil Management - Junaid Ahmad Malik 2022-06-30
This 4-volume set focuses on the use of microbial bioremediation and phytoremediation to clean up pollutants in soil, such as pesticides, petroleum hydrocarbons, metals, and chlorinated solvents, which reduce the soil's fertility and renders it unfit for plant growth. Volume 2: Microbial Approaches and Recent Trends focuses on new and emerging techniques and approaches to address soil pollution. These include the use of rhizobacteria, archaea, cyanobacteria, and microalgae as biofertilizers and for soil bioremediation efforts. New technologies for assessment of soil bioremediation are explored also. The chapters provide in-depth coverage of the mechanisms, advantages, and disadvantages of the technologies used and highlight the use of

different microbial enzymes that are used in the process of bioremediation and phytoremediation to clean up different pollutants without causing damage to the natural environment. Other volumes in the 4-volume set: • Volume 1: Fundamental Aspects and Contaminated Sites • Volume 3: Inventive Techniques, Research Methods, and Case Studies • Volume 4: Degradation of Pesticides and Polychlorinated Biphenyls Together, these four volumes provide in-depth coverage of the mechanisms, advantages, and disadvantages of the bioremediation and phytoremediation technologies for safe and sustainable soil management. The diverse topics help to arm biologists, agricultural engineers, environmental and soil scientists and chemists with the information and tools they need to address soil toxins that are a dangerous risk to plants, wildlife, humans and, of course, the soil itself.
Parliamentary Papers - Great Britain. Parliament. House of Commons 1858

Class and Industrial Marketing - 1982

Acrylate Polymers for Advanced Applications - Ángel Serrano-Aroca 2020-05-06
This book presents five chapters, organised into two sections, on the latest developments in acrylate polymers materials in terms of properties, new ideas in design, synthesis and detailed applications. Section I presents three chapters on acrylate polymer properties and advanced applications such as pH dependence acrylate-derivative polyelectrolyte properties and polymer material classification as acrylic heat resistant glass and polycarbonate antiballistic glass. Section II includes two chapters on acrylic-based materials in the form of hydrogels, interpenetrated polymer networks, composites and nanocomposites for biomedical and bioengineering applications such as tissue engineering, antimicrobial therapy, orthopaedics and ophthalmologic devices.
Frontier Discoveries and Innovations in Interdisciplinary Microbiology - Pratyoosh Shukla 2015-11-16
This excellent book covers wide-ranging topics in interdisciplinary microbiology, addressing various research aspects and highlighting advanced discoveries and innovations. It presents the fascinating topic of modern biotechnology, including agricultural microbiology, microalgae biotechnology, bio-energy, bioinformatics and metagenomics, environmental microbiology, enzyme technology and marine biology. It presents the most up-to-date areas of microbiology with an emphasis on shedding light on biotechnological advancements and integrating these interdisciplinary microbiology research topics into other biotechnology sub-disciplines. The book raises awareness of the industrial relevance of microbiology, which is key component of this unique collection. The topics include production of antioxidant-glutathione, enzyme-engineering methods, probiotic microbiology and features of microbial xylanases. It also covers some other remarkable aspects of microbiology, like potential health hazards in recreational water and fullerene nanocomposites, which are vital for biotechnological interventions. This book will be valuable resource for senior undergraduate and graduate students, researchers and other interested professionals or groups working in the interdisciplinary areas of microbiology and biotechnology.
Spray Drying Encapsulation of Bioactive Materials - Seid Mahdi Jafari 2021-09-07
Encapsulation of bioactives is a fast-growing approach in the food and pharmaceutical industry. Spray Drying Encapsulation of Bioactive Materials serves as a source of information to offer specialized and in-depth knowledge on the most well-known and used encapsulation technology (i.e., spray drying) and corresponding advances. It describes the efficacy of spray drying in terms of its advantages and challenges for encapsulation of bioactive ingredients. Discusses the potential of this technique to pave the way toward cost-effective, industrially relevant, reproducible, and scalable processes that are critical to the development of delivery systems for bioactive incorporation into innovative functional food products and pharmaceuticals Presents the latest research outcomes related to spray drying technology and the encapsulation of various bioactive materials Covers advances in spray drying technology that may result in a more efficient encapsulation of bioactive ingredients

Includes computational fluid dynamics, advanced drying processes, as well as the morphology of the dried particles, drying kinetics analyzers, process controllers and adaptive feedback systems, inline powder analysis technologies, and cleaning-in-place equipment Aimed at food manufacturers, pharmacists, and chemical engineers, this work is of interest to anyone engaged in encapsulation of bioactive ingredients for both nutraceutical and pharmaceutical applications.

Syntheses and Applications of Carbon Nanotubes and Their Composites - Satoru Suzuki 2013-05-09

Carbon nanotubes are rolled up graphene sheets with a quasi-one-dimensional structure of nanometer-scale diameter. In these last twenty years, carbon nanotubes have attracted much attention from physicists, chemists, material scientists, and electronic device engineers, because of their excellent structural, electronic, optical, chemical and mechanical properties. More recently, demand for innovative industrial applications of carbon nanotubes is increasing. This book covers recent research topics regarding syntheses techniques of carbon nanotubes and nanotube-based composites, and their applications. The chapters in this book will be helpful to many students, engineers and researchers working in the field of carbon nanotubes.

Integrated Waste Management - Sunil Kumar 2011-08-23

This book reports research on policy and legal issues, anaerobic digestion of solid waste under processing aspects, industrial waste, application of GIS and LCA in waste management, and a couple of research papers relating to leachate and odour management.

Advances in Soft Computing, Intelligent Robotics and Control - János Fodor 2014-03-20

Soft computing, intelligent robotics and control are in the core interest of contemporary engineering. Essential characteristics of soft computing methods are the ability to handle vague information, to apply human-like reasoning, their learning capability and ease of application. Soft computing techniques are widely applied in the control of dynamic systems, including mobile robots. The present volume is a collection of 20 chapters written by respectable experts of the fields, addressing various theoretical and practical aspects in soft computing, intelligent robotics and control. The first part of the book concerns with issues of intelligent robotics, including robust xed point transformation design, experimental verification of the input-output feedback linearization of differentially driven mobile robot and applying kinematic synthesis to micro electro-mechanical systems design. The second part of the book is devoted to fundamental aspects of soft computing. This includes practical aspects of fuzzy rule interpolation, subjective weights based meta learning in multi criteria decision making, swarm-based heuristics for an area exploration and knowledge driven adaptive product representations. The last part addresses different problems, issues and methods of applied mathematics. This includes perturbation estimates for invariant subspaces of Hessenberg matrices, uncertainty and nonlinearity modelling by probabilistic metric spaces and comparison and visualization of the DNA of six primates.

Staphylococcus and Streptococcus - Sahra Kırmusaoğlu 2020-03-11

Staphylococcus spp. and Streptococcus spp. have not only got pathogenic isolates, but also non-pathogenic isolates. Staphylococcus spp. and Streptococcus spp. that are Gram positive cocci are the main pathogens in several infections. Virulence factors such as usual and unusual surface proteins encoded by resistance genes are the main causes of pathogenesis. Multidrug-resistant pathogens that are the main causes of morbidity and mortality worldwide have the ability to synthesize a number of destructive enzymes encoded by resistance genes such as ?-lactamases. Resistant pathogens such as methicillin-resistant Staphylococcus aureus (MRSA), Streptococcus pneumoniae, Group A, and Group B Streptococcus have emerged throughout the world. To eliminate these resistant pathogens that cause untreatable, acute, and chronic infections, different new antimicrobials must be developed and used. The goal of this book is to provide the latest information about the above topics.

Organic Agriculture - Shaon Kumar Das 2020-12-02

Organic crop production is the science and art of growing field crops, fruits, vegetables, and

flowers by adopting the essential principles of organic agriculture in soil building and conservation, pest management, and heirloom variety conservation. This book provides detailed insights into organic farming in agriculture, biological efficacy in the management of plant diseases, organic nutrient management, socio-economic dimensions of adoption of conservation practices, nonchemical weed control, plant growth promoting fungi for phytostimulation, nanotechnological approaches, and finally vermicomposting. The book primarily focuses on research and development based organic agriculture and horticulture production technologies, and has attempted to abridge information on organic crop production of the major food grain crops. The book also contains comprehensive information on the various related dimensions of organic crop production.

Cluster Beam Deposition of Functional Nanomaterials and Devices - Paolo Milani 2020-03-11

Cluster Beam Deposition of Functional Nanomaterials and Devices, Volume 15, provides up-to-date information on the CBD of novel nanomaterials and devices. The book offers an overview of gas phase synthesis in a range of nanoparticles, along with discussions on the development of several devices and applications. Applications include, but are not limited to catalysis, smart nanocomposites, nanoprobes, electronic devices, gas sensors and biosensors. This is an important reference source for materials scientists and engineers who want to learn more about this sustainable, innovative manufacturing technology. Explores the use of CBD for the fabrication of functionalized nanomaterials and devices Shows how CBD is used for both sensing and biomedical applications Discusses how this emerging technology is being commercialized for use on a large-scale

Palliative Care Nursing - Marianne Matzo, PhD, APRN-CNP, FPCN, FAAN 2018-06-28

“This 5th edition is an important achievement; it is a symbol of commitment to the field of palliative nursing, where we have been and where we are going.” - Betty Rolling Ferrell, PhD, MA, FAAN, FPCN, CHPN From the Foreword The aging population has only grown since the first edition of this comprehensive and seminal publication nearly 20 years ago. Based on the need to humanize rather than medicalize the illness experience for patients, this text delves into palliative care beyond the specific diseases affecting the patient. Instead, content focuses on the whole person and family. Palliative patients struggle with chronic, debilitating, and painful conditions, and grapple with the fact that life as they knew it has already passed away. Families and friends reciprocally suffer, not knowing how to help and therefore become the secondary victims of the disease. This is not the challenge of a lone nurse, or a single physician, therapist, or social worker. Rather, palliative and hospice care requires the expertise and unique roles of an interprofessional team to help the patient and family strengthen their resilience, continue to find meaning and purpose in life, and cure what can be cured. Palliative Care Nursing, Fifth Edition, delivers advanced empirical, aesthetic, ethical and personal knowledge. This new edition brings an increased focus on outcomes, benchmarking progress, and goals of care. It expounds upon the importance of the cross-disciplinary collaboration introduced in the previous edition. Every chapter in Sections I, II, and III includes content written by a non-nursing member of the interprofessional team. Based on best-evidence and clinical practice guidelines, this text presents comprehensive, targeted interventions responsive to the needs of palliative and hospice patients and family. Each chapter contains compassionate, timely, appropriate, and cost-effective care for diverse populations across the illness trajectory. Key Features The expanded new edition offers current, comprehensive, one-stop source of highly-relevant clinical information on palliative care Life-span approach: age-appropriate nursing considerations (e.g. geriatric, pediatric and family) Includes disease-specific and symptom-specific nursing management chapters Promotes a holistic and interdisciplinary approach to palliative care Offers important legal, ethical and cultural considerations related to death and dying Case Studies with Case Study Conclusion in each clinical chapter New to The Fifth Edition: An expanded chapter on Palliative Care incorporates most up to date scope and standards, information on Basic and Advanced

HPNA certification, self-reflection and self-care for nurses. A chapter on Interprofessional Collaboration Instructor Resources: Power points and Test bank
Cumulated Index Medicus - 1988

Business Publication Advertising Source - 2003-11

Official Gazette of the United States Patent and Trademark Office - 1991

Annual Dividend Record - Standard and Poor's Corporation 1989

Hydrolith 2: Surrealist Research & Investigations - Oyster Moon Press 2014-10-31
Magazine. Poetry. Fiction. Literary Nonfiction. Art. Translation. This second issue of HYDROLITH is a continuation of what the first volume started, which was and is to assemble a stimulating selection of exclusively recent work by groups and individuals of the international Surrealist movement, to facilitate intellectual exchange and collaboration, enabling us to concentrate the echoes of our commonalities as well as the shadows of our differences. In so doing, this volume aspires to reduce all manner of distances that exist between us. All works in this book are in English, while many of them are translations from the Dutch, French, Greek, Portuguese, Romanian, Spanish and Turkish languages.--from the Preface
Stock Guide - 1989-07

Current Topics and Emerging Issues in Malaria Elimination - 2021-07-21
Malaria is one of the most important tropical diseases in the history of the world. This vector-borne disease has been a significant cause of morbidity and mortality in tropical countries of Africa, Asia, and Latin America. As such, this book provides updated information on epidemiological and public health research of malaria conducted in the last decade. Over four sections, chapters discuss such topics as diagnosis, epidemiology and surveillance, policy and prevention, and vector control and vaccines.
Science Education for Gifted Learners - Keith S. Taber 2007-04-13
Science is central to our modern technological society, yet many of the most able pupils who could become the scientists of tomorrow turn away from science as soon as they have a choice in their studies. Science is often seen to be difficult or boring, and fails to engage or challenge those who are most suited to excel in scientific studies. This book asks what classroom teachers can do to make sure that their science teaching is stimulating and challenging for their students. Topics covered include: what do we mean by gifted and able children? gifted children that slip through the net challenging science through modelling asking questions in science exploring topical issues challenging science through talk after-school enrichment. Set in the wider context of debates about the provision for those labelled ‘gifted’ and ‘exceptionally able’, this book explores the meaning of these categories, and considers what they may imply in such approaches as setting, streaming, acceleration and enrichment.
InTech - 2001-07

Technopoles of the World - Manuel Castells 2014-01-14
Technopoles - planned centres for the promotion for high- technology industry - have become a key feature of national economic development worldwide. Created out of a technological revolution, the formation of the global economy and the emergence of a new form of economic production and management, they constitute the mines and foundries of the information age, redefining the conditions and processes of local and regional development. This book is the first systematic survey of technopoles in all manifestations: science parks, science cities, national technopoles and technobelt programmes. Detailed case studies, ranging from the Silicon Valley to Siberia and from the M4 Corridor to Taiwan, relate how global technopoles have developed, what each is striving to achieve and how well it is succeeding. Technopoles of the World distills the lessons learnt from the successes and failures, embracing a host of disparate concepts and a few myths, and offering guidelines for national, regional and local planners and developers worldwide.
Micro and Nano Fibrillar Composites (MFCs and NFCs) from Polymer Blends - Sabu Thomas

2017-06-19
Micro and Nano Fibrillar Composites (MFCs and NFCs) from Polymer Blends is a comprehensive reference for researchers, students and scientists working in the field of plastics recycling and composites. The book aims to determine the influence of micro and nanofibrillar morphology on the properties of immiscible blend systems. Chapters cover micro and nanofibrillar composites based on polyolefin, liquid crystal polymer, biodegradable polymers, polyester and polyamide blends in various industrial application fields. The book brings together panels of highly-accomplished experts in the field of plastics recycling, blends and composites systems. For several decades, plastic technology has played an important role in many industrial applications, such as packaging, automobiles, aerospace and construction. However the increasing use of plastics creates a lot of waste. This has led to restrictions on the use of some plastics for certain applications and a drive towards recycling of plastics. More recently, microfibrillar in-situ composites have been prepared from waste plastics such as PET/PP, PET/PE and Nylon/PP as a way of formulating new high performance polymer systems. This book tackles these issues and more, and is an ideal resource for anyone interested in polymer blends. Provides information on MFC and NFC based polymer blends that have been accumulated over the last 25 years, providing a useful reference Adopts a novel approach in terms of understanding the relationship between processing, morphology, structure, properties and applications in micro and nanofibrillar composites Contains contributions from leading experts in the field from both industrial and academic research

Intelligent Systems and Applications - Yaxin Bi 2016-06-30
This book is a remarkable collection of chapters covering a wider range of topics, including unsupervised text mining, anomaly and Intrusion Detection, Self-reconfiguring Robotics, application of Fuzzy Logic to development aid, Design and Optimization, Context-Aware Reasoning, DNA Sequence Assembly and Multilayer Perceptron Networks. The twenty-one chapters present extended results from the SAI Intelligent Systems Conference (IntelliSys) 2015 and have been selected based on high recommendations during IntelliSys 2015 review process. This book presents innovative research and development carried out presently in fields of knowledge representation and reasoning, machine learning, and particularly in intelligent systems in a more broad sense. It provides state - of - the - art intelligent methods and techniques for solving real world problems along with a vision of the future research.

Handbook of Enhanced Spectroscopy - Marc Lamy de la Chapelle 2015-10-16
Techniques such as Raman, infrared, fluorescence, and even nonlinear spectroscopies have recently grown in resolution and possibilities thanks to the use of nanostructured surfaces. Excitation of localized surface plasmon (LSP) and/or the use of specific shapes of nanostructures have made it possible to gain an incredible sensitivity in these spectroscopies. Unlike other books in the market, which mainly focus on surface-enhanced Raman spectroscopy (SERS) and plasmonics, the aim of this book is to provide the reader with a detailed overview of enhanced spectroscopies. It introduces plasmon and electromagnetic effects arising in metallic nanostructures, and reviews the above spectroscopies, enhanced by the presence of either a nanostructure or a tip. It reviews the theoretical basis of each technique, describes experimental procedures, and suggests some applications.

Laboratory Models for Foodborne Infections - Dongyou Liu 2017-03-16
Resulting from ingestion of inappropriately prepared or stored foods containing pathogenic viruses, bacteria, fungi and parasites, foodborne infections have become a significant source of human morbidity and mortality worldwide in recent decades. This may be largely attributable to the remarkable popularity of convenient, ready-to-eat food products, the dramatic expansion of international food trades, and the continuing growth of immuno-suppressed population groups. Although anti-microbial treatments have played a crucial part in the control of foodborne infections in the past, the emergence and spread of anti-microbial resistance render the existing treatments ineffective. Additionally, our limited understanding of the molecular mechanisms of

foodborne infections has thwarted our efforts in the development of efficacious vaccines for foodborne pathogens. Given the obvious benefits of laboratory models in foodborne disease research, a great number of experiments have been conducted toward the elucidation of host-pathogen interactions in and pathogenic mechanisms of foodborne infections. Forming part of the Food Microbiology series, Laboratory Models for Foodborne Infections presents a state-of-the-art review of laboratory models that have proven valuable in deciphering the life cycle, epidemiology, immunobiology, and other key aspects of foodborne pathogens. Written by scientists with respective expertise in foodborne pathogen research, each chapter includes a contemporary summary of a particular foodborne viral, bacterial, fungal, or parasitic infection in relation to its life cycle, epidemiology, clinical features, pathogenesis, host-pathogen interactions, and other related aspects. Besides providing a trustworthy source of information for undergraduates and postgraduates in food microbiology, Laboratory Models for Foodborne Infections offers an invaluable guide for scientists and food microbiologists with interest in exploiting laboratory models for detailed study of foodborne infections.

Comprehensive Materials Finishing - Saleem Hashmi 2016-08-29

Finish Manufacturing Processes are those final stage processing techniques which are deployed to bring a product to readiness for marketing and putting in service. Over recent decades a number of finish manufacturing processes have been newly developed by researchers and technologists. Many of these developments have been reported and illustrated in existing literature in a piecemeal manner or in relation only to specific applications. For the first time, Comprehensive Materials Finishing integrates a wide body of this knowledge and understanding into a single, comprehensive work. Containing a mixture of review articles, case studies and research findings resulting from R & D activities in industrial and academic domains, this reference work focuses on how some finish manufacturing processes are advantageous for a broad range of technologies. These include applicability, energy and technological costs as well as practicability of implementation. The work covers a wide range of materials such as ferrous, non-ferrous and polymeric materials. There are three main distinct types of finishing processes: Surface Treatment by which the properties of the material are modified without generally changing the physical dimensions of the surface; Finish Machining Processes by which a small layer of material is removed from the surface by various machining processes to render improved surface characteristics; and Surface Coating Processes by which the surface properties are improved by adding fine layer(s) of materials with superior surface characteristics. Each of these primary finishing processes is presented in its own volume for ease of use, making Comprehensive Materials Finishing an essential reference source for researchers and professionals at all career stages in academia and industry. Provides an interdisciplinary focus, allowing readers to become familiar with the broad range of uses for materials finishing Brings together all known research in materials finishing in a single reference for the first time Includes case studies that illustrate theory and show how it is applied in practice

Daily Stock Price Record - Standard and Poor's Corporation 1991-07

50,000 Leading U.S. Corporations - 1980

The Official Guide of the Railways and Steam Navigation Lines of the United States, Porto Rico, Canada, Mexico and Cuba - 1910

MotorBoating - 1979-02

Business Marketing - 1985

Next Generation Smart Nano-Bio-Devices - Gorachand Dutta 2022-10-20

This book addresses challenges for the development of a point-of-care-test platform. The book describes printed chip-based assay (Lab-on-a-Chip, Lab-on-a-PCB) for rapid, inexpensive biomarkers detection in real samples. The main challenges of point-of-care testing require implementing complex analytical methods into low-cost technologies. This is particularly true for countries with less developed healthcare

infrastructure. Washing-free, Lab-on-Chip, and Lab-on-PCB techniques are very simple and innovative for point-of-care device development. The redox cycling technology detects several interesting targets at the same time on a printed chip. The proposed areas are inherently cross-disciplinary, combining expertise in biosensing, electrochemistry, electronics and electrical engineering, health care, and manufacturing.

This book focuses on recent advances and different research issues in the nanobiotechnology-enabled biosensor technology and also seeks out theoretical, methodological, well-established, and validated empirical work dealing with these different topics.

The Official Railway Equipment Register - 1989