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Urban Storm Drainage Criteria Manual - Urban Drainage and Flood Control District 2010-11-01

Nanobiotechnology - Jameel M. Al-Khayri
2021-07-22

This book provides up-to-date knowledge of the promising field of Nanobiotechnology with

emphasis on the mitigation approaches to combat plant abiotic stress factors, including drought, salinity, waterlog, temperature extremes, mineral nutrients, and heavy metals. These factors adversely affect the growth as well as yield of crop plants worldwide, especially under the global climate change.

Nanobiotechnology is viewed to revolutionize crop productivity in future. The chapters discuss the status and prospects of this cutting-edge technology toward understanding tolerance mechanisms, including signaling molecules and enzymes regulation in addition to the applications of Nanobiotechnology to combat individual abiotic stress factors.

The World's Finest Minerals and Crystals - Peter Bancroft 1973

Rare specimens of minerals and crystals from private and public collections are depicted in color plates and descriptive notes.

Tropical Freshwater Aquarium Fish from A to Z - Ulrich Schliewen 2005

Literally hundreds of different tropical freshwater fish are shown in vivid color photos and described for aquarium hobbyists. Readers will also find information on general aquarium maintenance. More than 300 color photos. Titles in the Compass Guides series are handsome and practical quick-reference sources for pet owners,

pet fanciers, and aquarium and terrarium hobbyists. Books feature brief descriptive profiles of their subject animals, each profile consisting of a color photo, the animal's place of origin, its basic housing and feeding needs, and its physical traits and temperament. In addition to the profiles, each Compass Guide also contains general information on animal species and their families. 200-to-300 color photos and index.

ACS Style Guide - Anne M. Coghill 2006

In the time since the second edition of The ACS Style Guide was published, the rapid growth of electronic communication has dramatically changed the scientific, technical, and medical (STM) publication world. This dynamic mode of dissemination is enabling scientists, engineers, and medical practitioners all over the world to obtain and transmit information quickly and easily. An essential constant in this changing environment is the requirement that information remain accurate, clear, unambiguous, and

ethically sound. This extensive revision of The ACS Style Guide thoroughly examines electronic tools now available to assist STM writers in preparing manuscripts and communicating with publishers. Valuable updates include discussions of markup languages, citation of electronic sources, online submission of manuscripts, and preparation of figures, tables, and structures. In keeping current with the changing environment, this edition also contains references to many resources on the internet. With this wealth of new information, The ACS Style Guide's Third Edition continues its long tradition of providing invaluable insight on ethics in scientific communication, the editorial process, copyright, conventions in chemistry, grammar, punctuation, spelling, and writing style for any STM author, reviewer, or editor. The Third Edition is the definitive source for all information needed to write, review, submit, and edit scholarly and scientific manuscripts.

Energy, Mineral, and Ground-water Resources of

Carbon and Emery Counties, Utah - R. W. Gloyd
2003

This report provides information for use in both short- and long term land-planning decisions, particularly at the county level, and an indication of the present and future economic impact of mineral and energy development. The report discusses eight major commodity groups: (1) oil and gas, (2) coal and coal resin, (3) coal-bed methane, (4) other energy resources (oil-impregnated rock, oil shale, geothermal), (5) uranium and vanadium, (6) metallic minerals, (7) industrial rocks and minerals, and (8) ground-water resources. In general, for each group or commodity within a group the following aspects are discussed: (1) known occurrences and characteristics, (2) past production and trends, (3) current production and exploration activity, and (4) geologic potential. Plates accompany each of the major commodity groups and show the locations of known resources and areas of geologic potential. In addition to the commodity

discussions, the report contains a brief summary of land ownership status and concludes with a summary of commodities having the best potential for discovery and development. 161 pages + 14 plates

The Whole Building Handbook - Maria Block
2010-02-09

The Whole Building Handbook is a compendium of all the issues and strategies that architects need to understand to design and construct sustainable buildings for a sustainable society. The authors move beyond the current definition of sustainability in architecture, which tends to focus on energy-efficiency, to include guidance for architecture that promotes social cohesion, personal health, renewable energy sources, water and waste recycling systems, permaculture, energy conservation - and crucially, buildings in relation to their place. The authors offer a holistic approach to sustainable architecture and authoritative technical advice, on: * How to design and construct healthy

buildings, through choosing suitable materials, healthy service systems, and designing a healthy and comfortable indoor climate, including solutions for avoiding problems with moisture, radon and noise as well as how to facilitate cleaning and maintenance. * How to design and construct buildings that use resources efficiently, where heating and cooling needs and electricity use is minimized and water-saving technologies and garbage recycling technologies are used. * How to 'close' organic waste, sewage, heat and energy cycles. For example, how to design a sewage system that recycles nutrients. * Includes a section on adaptation of buildings to local conditions, looking at how a site must be studied with respect to nature, climate and community structure as well as human activities. The result is a comprehensive, thoroughly illustrated and carefully structured textbook and reference.

[A Dictionary of Mining, Mineral, and Related Terms](#) - United States. Bureau of Mines 1968

Includes about 55,000 individual mining and mineral industry term entries with about 150,000 definitions under these terms.

Extrusion in Ceramics - Frank Händle
2009-08-12

Frank Handle" 1.1 What to Expect For some time now, I have been toying around with the idea of writing a book about "Ceramic Extrusion", because to my amazement I have been unable to locate a single existing, comprehensive rundown on the subject - much in contrast to, say, plastic extrusion and despite the fact that there are some outstanding contributions to be found about certain, individual topics, such as those in textbooks by Reed [1], Krause [2], Bender/Handle" [3] et al. By way of analogy to Woody Allen's wonderfully ironic movie entitled "Everything You Always Wanted to Know about Sex", I originally intended to call this book "Everything You Always Wanted to Know about Ceramic Extrusion", but - ter giving it some extra thought, I eventually decided on a

somewhat soberer title. Nevertheless, my companion writers and I have done our best - considering our target group and their motives - not to revert to the kind of jargon that people use when they think the less understandable it sounds, the more scientific it appears. This book addresses all those who are looking for a lot or a little general or selective information about ceramic extrusion and its sundry aspects. We realize that most of our readers will not be perusing this book just for fun or out of intellectual curiosity, but because they hope to get some use out of it for their own endeavours.

Fruit and Vegetables - Anthony Keith Thompson
2008-04-15

The second edition of this very well-received book, which in its first edition was entitled Postharvest Technology of Fruits and Vegetables, has been welcomed by the community of postharvest physiologists and technologists who found the first edition of such great use. The book covers, in comprehensive detail,

postharvest physiology as it applies to postharvest quality, technology relating to maturity determination, harvesting, packaging, postharvest treatments, controlled atmosphere storage, ripening and transportation on a very wide international range of fruits and vegetables. The new edition of this definitive work, which contains many full colour photographs, provides key practical and commercially-oriented information of great use in helping to ensure that fruit and vegetables reach the retailer in optimum condition, with the minimum of loss and spoilage. Fruits and vegetables, 2nd edition is essential reading for fruit and vegetable technologists, food scientists and food technologists, agricultural scientists, commercial growers, shippers and warehousing operatives and personnel within packaging companies. Researchers and upper level students in food science, food technology, plant and agricultural sciences will find a great deal of use within this landmark book. All

libraries in research establishments and universities where these subjects are studied and taught should have copies readily available for users. A. K. Thompson was formerly Professor and head of Postharvest Technology, Silsoe College, UK.

Cold Plasma in Food and Agriculture - NN Misra
2016-07-15

Cold Plasma in Food and Agriculture: Fundamentals and Applications is an essential reference offering a broad perspective on a new, exciting, and growing field for the food industry. Written for researchers, industry personnel, and students interested in nonthermal food technology, this reference will lay the groundwork of plasma physics, chemistry, and technology, and their biological applications. Food scientists and food engineers interested in understanding the theory and application of nonthermal plasma for food will find this book valuable because it provides a roadmap for future developments in this emerging field. This

reference is also useful for biologists, chemists, and physicists who wish to understand the fundamentals of plasma physics, chemistry, and technology and their biological interactions through applying novel plasma sources to food and other sensitive biomaterials. Examines the topic of cold plasma technology for food applications Demonstrates state-of-the-art developments in plasma technology and potential solutions to improve food safety and quality Presents a solid introduction for readers on the topics of plasma physics and chemistry that are required to understand biological applications for foods Serves as a roadmap for future developments for food scientists, food engineers, and biologists, chemists, and physicists working in this emerging field

Nuclear Back-end and Transmutation Technology for Waste Disposal - Ken Nakajima 2014-11-05

This book covers essential aspects of transmutation technologies, highlighting

especially the advances in Japan. The accident at the Fukushima Daiichi Nuclear Power Plant (NPP) has caused us to focus attention on a large amount of spent nuclear fuels stored in NPPs. In addition, public anxiety regarding the treatment and disposal of high-level radioactive wastes that require long-term control is growing. The Japanese policy on the back-end of the nuclear fuel cycle is still unpredictable in the aftermath of the accident. Therefore, research and development for enhancing the safety of various processes involved in nuclear energy production are being actively pursued worldwide. In particular, nuclear transmutation technology has been drawing significant attention after the accident. This publication is timely with the following highlights: 1) Development of accelerator-driven systems (ADSs), which is a brand-new reactor concept for transmutation of highly radioactive wastes; 2) Nuclear reactor systems from the point of view of the nuclear fuel cycle. How to reduce

nuclear wastes or how to treat them including the debris from TEPCO's Fukushima nuclear power stations is discussed; and 3) Environmental radioactivity, radioactive waste treatment and geological disposal policy. State-of-the-art technologies for overall back-end issues of the nuclear fuel cycle as well as the technologies of transmutation are presented here. The chapter authors are actively involved in the development of ADSs and transmutation-related technologies. The future of the back-end issues in Japan is very uncertain after the accident at the Fukushima Daiichi NPP and this book provides an opportunity for readers to consider the future direction of those issues.

Sustainable Agricultural Development -

Mohamed Behnassi 2011-02-09

Due to many challenges (i.e. climate change, energy, water and land shortage, high demands on food, land grabbing, etc.), agriculture production potential is expected to be seriously affected; thus, increasing food insecurity and

hunger in many already affected regions (especially in Africa). In this context, sustainable agriculture is highly recommended as an eco-system approach where soil, water, plants, environment and living organisms live in harmony. Innovative technologies and research should be developed to ensure sustainable agriculture and productivity using modern irrigation systems, improved varieties, improved soil quality, etc. In the meantime, the preservation of natural environment should be based on resource conservation technologies and best management practices. Sustainable Agricultural Development, not only raises the serious ethical and social issues underlying these huge environmental problems, but also aims at presenting successful experiences from all over the world in relation with sustainable farming, sustainable management of water and land resources, and innovative processes in livestock production. It also aims at providing inputs to decision making processes and

encouraging the transfer of relevant know-how, technologies and expertise to different countries where similar agro-climatic conditions may exist; thus saving precious resources and promoting sustainable agricultural development as a relevant approach to tackle the food security challenge. Finally, this book focuses on the paradigmatic and policy dimensions and call for an innovative approach by analyzing the key themes in a complex and interrelated manner.

Fundamentals of Magnetic Thermonuclear Reactor Design - Vasilij A. Glukhikh 2018-05-21
Fundamentals of Magnetic Thermonuclear Reactor Design is a comprehensive resource on fusion technology and energy systems written by renowned scientists and engineers from the Russian nuclear industry. It brings together a wealth of invaluable experience and knowledge on controlled thermonuclear fusion (CTF) facilities with magnetic plasma confinement - from the first semi-commercial tokamak T-3, to the multi-billion international experimental

thermonuclear reactor ITER, now in construction in France. As the INTOR and ITER projects have made an immense contribution in the past few decades, this book focuses on its practical engineering aspects and the basics of technical physics and electrical engineering. Users will gain an understanding of the key ratios between plasma and technical parameters, design streamlining algorithms and engineering solutions. Written by a team of qualified experts who have been involved in the design of thermonuclear reactors for over 50 years Outlines the most important features of the ITER project in France which is building the largest tokamak, including the design, material selection, safety and economic considerations Includes data on how to design magnetic fusion reactors using CAD tools, along with relevant regulatory documents

Encyclopedia of Aquarium & Pond Fish - David Alderton 2008-06-02
A lavishly illustrated reference covering all

aspects of keeping fish, the Encyclopedia of Aquarium & Pond Fish is the first book on the market to provide care and identification information on all types of fish for every possible environment, from indoor aquariums to outdoor ponds. The book contains a directory of over 800 of the most popular fish—freshwater, saltwater, coldwater, and tropical—showing not only what each fish looks like, but what food they eat, which species they can cohabit with, how big they grow, and much more.

Energy Technology 2015 - Animesh Jha
2016-12-06

This book covers various technological aspects of sustainable energy ecosystems and processes that improve energy efficiency, and reduce and sequester carbon dioxide (CO₂) and other greenhouse emissions. Papers emphasize the need for sustainable technologies in extractive metallurgy, materials processing and manufacturing industries with reduced energy consumption and CO₂ emission. Industrial

energy efficient technologies include innovative ore beneficiation, smelting technologies, recycling, and waste heat recovery. The book also contains contributions from all areas of non-nuclear and non-traditional energy sources, including renewable energy sources such as solar, wind, and biomass. Papers from the following symposia are presented in the book: Energy Technologies and Carbon Dioxide Management Recycling and Sustainability Update Magnetic Materials for Energy Applications V Sustainable Energy and Layered Double Hydroxides

The Unbroken Thread - Kathryn Klein
1997-01-01

Housed in the former 16th-century convent of Santo Domingo church, now the Regional Museum of Oaxaca, Mexico, is an important collection of textiles representing the area's indigenous cultures. The collection includes a wealth of exquisitely made traditional weavings, many that are now considered rare. The

Unbroken Thread: Conserving the Textile Traditions of Oaxaca details a joint project of the Getty Conservation Institute and the National Institute of Anthropology and History (INAH) of Mexico to conserve the collection and to document current use of textile traditions in daily life and ceremony. The book contains 145 color photographs of the valuable textiles in the collection, as well as images of local weavers and project participants at work. Subjects include anthropological research, ancient and present-day weaving techniques, analyses of natural dyestuffs, and discussions of the ethical and practical considerations involved in working in Latin America to conserve the materials and practices of living cultures.

Luminescence Thermometry - Miroslav Dramićanin 2018-04-21

Luminescence Thermometry: Methods, Materials, and Applications presents the state-of-the-art applications of luminescence thermometry, giving a detailed explanation of

luminescence spectroscopic schemes for the read-out of temperature, while also describing the diverse materials that are capable of sensing temperature via luminescence. Chapters cover the fundamentals of temperature, traditional thermometers and their figures of merit, a concise description of optical thermometry methods, luminescence and instrumentation, and an explanation of the ways in which increases in temperature quench luminescence. Additional sections focus on materials utilized for luminescence thermometry and the broad range of applications for luminescence thermometry, including temperature measurement at the nanoscale and the application of multifunctional luminescent materials. Provides an overview of luminescence thermometry applications, including high-temperature, biomedical, nanoscale and multifunctional Delves into luminescence thermometry by materials group, including Rare-earth and transition Metal Ion Doped,

Semiconductors, Quantum Dots and Organic materials Gives a concise introduction of the latest methods of temperature measurement, including luminescence spectroscopic schemes and methods of analysis

Sustainable Green Chemical Processes and their Allied Applications - Inamuddin 2020-05-30

Urbanization, industrialization, and unethical agricultural practices have considerably negative effects on the environment, flora, fauna, and the health and safety of humanity. Over the last decade, green chemistry research has focused on discovering and utilizing safer, more environmentally friendly processes to synthesize products like organic compounds, inorganic compounds, medicines, proteins, enzymes, and food supplements. These green processes exist in other interdisciplinary fields of science and technology, like chemistry, physics, biology, and biotechnology, Still the majority of processes in these fields use and generate toxic raw materials, resulting in techniques and

byproducts which damage the environment. Green chemistry principles, alternatively, consider preventing waste generation altogether, the atom economy, using less toxic raw materials and solvents, and opting for reducing environmentally damaging byproducts through energy efficiency. Green chemistry is, therefore, the most important field relating to the sustainable development of resources without harmfully impacting the environment. This book provides in-depth research on the use of green chemistry principles for a number of applications.

Improving Potassium Recommendations for Agricultural Crops - T. Scott Murrell
2020-12-14

This open access book highlights concepts discussed at two international conferences that brought together world-renowned scientists to advance the science of potassium (K) recommendations for crops. There was general agreement that the potassium recommendations

currently in general use are oversimplified, outdated, and jeopardize soil, plant, and human health. Accordingly, this book puts forward a significantly expanded K cycle that more accurately depicts K inputs, losses and transformations in soils. This new cycle serves as both the conceptual basis for the scientific discussions in this book and a framework upon which to build future improvements. Previously used approaches are critically reviewed and assessed, not only for their relevance to future enhancements, but also for their use as metrics of sustainability. An initial effort is made to link K nutrition in crops and K nutrition in humans. The book offers an invaluable asset for graduate students, educators, industry scientists, data scientists, and advanced agronomists.

Renewable Energy - Mansour Al Qubeissi
2020-09-09

The demand for secure, affordable and clean energy is a priority call to humanity. Challenges associated with conventional energy resources,

such as depletion of fossil fuels, high costs and associated greenhouse gas emissions, have stimulated interests in renewable energy resources. For instance, there have been clear gaps and rushed thoughts about replacing fossil-fuel driven engines with electric vehicles without long-term plans for energy security and recycling approaches. This book aims to provide a clear vision to scientists, industrialists and policy makers on renewable energy resources, predicted challenges and emerging applications. It can be used to help produce new technologies for sustainable, connected and harvested energy. A clear response to economic growth and clean environment demands is also illustrated.

Handbook of Hydrothermal Technology - K. Byrappa 2012-12-31

Quartz, zeolites, gemstones, perovskite type oxides, ferrite, carbon allotropes, complex coordinated compounds and many more -- all products now being produced using

hydrothermal technology. Handbook of Hydrothermal Technology brings together the latest techniques in this rapidly advancing field in one exceptionally useful, long-needed volume. The handbook provides a single source for understanding how aqueous solvents or mineralizers work under temperature and pressure to dissolve and recrystallize normally insoluble materials, and decompose or recycle any waste material. The result, as the authors show in the book, is technologically the most efficient method in crystal growth, materials processing, and waste treatment. The book gives scientists and technologists an overview of the entire subject including: À Evolution of the technology from geology to widespread industrial use. À Descriptions of equipment used in the process and how it works. À Problems involved with the growth of crystals, processing of technological materials, environmental and safety issues. À Analysis of the direction of today's technology. In addition, readers get a

close look at the hydrothermal synthesis of zeolites, fluorides, sulfides, tungstates, and molybdates, as well as native elements and simple oxides. Delving into the commercial production of various types, the authors clarify the effects of temperature, pressure, solvents, and various other chemical components on the hydrothermal processes. Gives an overview of the evolution of Hydrothermal Technology from geology to widespread industrial use Describes the equipment used in the process and how it works Discusses problems involved with the growth of crystals, processing of technological materials, and environmental and safety issues Environmental Degradation: Causes and Remediation Strategies - Vinod Kumar 2020-03-10

The compliance of this book is helpful for academicians, researchers, students, as well as other people seeking the relevant material in current trends of studies on the topic of environmental degradation.

Applications of Nanotechnology for Green Synthesis - Inamuddin 2020-07-02

Traditional methods in synthetic chemistry produce chemical waste and byproducts, yield smaller desired products, and generate toxic chemical substances, but the past two centuries have seen consistent, greener improvements in organic synthesis and transformations. These improvements have contributed to substance handling efficiency by using green-engineered forerunners like sustainable techniques, green processes, eco-friendly catalysis, and have minimized energy consumption, reduced potential waste, improved desired product yields, and avoided toxic organic precursors or solvents in organic synthesis. Green synthesis has the potential to have a major ecological and monetary impact on modern pharmaceutical R&D and organic chemistry fields. This book presents a broad scope of green techniques for medicinal, analytical, environmental, and organic chemistry applications. It presents an

accessible overview of new innovations in the field, dissecting the highlights and green chemistry attributes of approaches to green synthesis, and provides cases to exhibit applications to pharmaceutical and organic chemistry. Although daily chemical processes are a major part of the sustainable development of pharmaceuticals and industrial products, the resulting environmental pollution of these processes is of worldwide concern. This edition discusses green chemistry techniques and sustainable processes involved in synthetic organic chemistry, natural products, drug syntheses, as well various useful industrial applications.

Molten Carbonate Fuel Cells - Kai Sundmacher 2007-09-24

Adopting a unique, integrated engineering approach, this text simultaneously covers all aspects of design and operation, process analysis, optimization, monitoring and control. It clearly presents the multiple advantages of

molten carbonate fuel cells for the efficient conversion of energy, and also includes recent developments in this innovative technology. The whole is rounded off by an appendix featuring benchmark problems with equations and parameters. Vital reading for process, chemical and power engineers, as well as those working in power technology, chemists and electrochemists, materials scientists, and energy-supplying companies.

Cosmic Botany - Tanya Lichtenstein
2020-04-14

A delightful illustrated guide to pairing plants and crystals to maximize their healing and energizing benefits. Greening your home is a powerful way to bring well-being and a sense of peace into any space, and adding crystals to the mix amplifies their vibrational energy and elevates those benefits to the next level. Whether you are looking for love, calm, prosperity, or merely inspiration to declutter your house and mind, Tanya Lichtenstein

demonstrates how pairing plant and crystal soul mates will help both you and them align with the flow of the universe. Plants and crystals are a timeless love story. Become an alchemical matchmaker and learn how syncing these natural allies can help your houseplants thrive, cleanse and ignite the powers of crystals, and make your home an oasis. Their potent synergy will allow you to reconnect with your intentions and reflect on the present moment. Discover how to effectively use more than 40 plant and crystal combinations, from jade pothos and pyrite for abundance, to string-of-pearls plant and amazonite for a worry detox, to aloe vera and apophyllite for self-care.

Preharvest Food Safety - Siddhartha Thakur
2020-07-10

An overview of farm-to-fork safety in the preharvest realm Foodborne outbreaks continue to take lives and harm economies, making controlling the entry of pathogens into the food supply a priority. Preharvest factors have been

the cause of numerous outbreaks, including Listeria in melons, Salmonella associated with tomatoes, and Shiga toxin-producing E.coli in beef products, yet most traditional control measures and regulations occur at the postharvest stage. Preharvest Food Safety covers a broad swath of knowledge surrounding topics of safety at the preharvest and harvest stages, focusing on problems for specific food sources and food pathogens, as well as new tools and potential solutions. Led by editors Siddhartha Thakur and Kalmia Kniel, a team of expert authors provides insights into critical themes surrounding preharvest food safety, including Challenges specific to meat, seafood, dairy, egg, produce, grain, and nut production Established and emerging foodborne and agriculture-related pathogens Influences of external factors such as climate change and the growing local-foods trend Regulatory issues from both US and EU perspectives Use of pre- and probiotics, molecular tools, mathematical

modeling, and one health approaches Intended to encourage the scientific community and food industry stakeholders to advance their knowledge of the developments and challenges associated with preharvest food safety, this book addresses the current state of the field and provides a diverse array of chapters focused on a variety of food commodities and microbiological hazards.

Alien Interview - Lawrence R. Spencer
2008-01-01

The content of this book is the letter, Top Secret interview transcripts and personal notes received from the late Matilda O'Donnell MacElroy, an Army Air Force nurse who stationed at the Roswell Army Air Field 509th Bomb Group. Her letter asserts that this material is based on a series of interviews she conducted with an extraterrestrial being as part of her official duty as a nurse in the U.S. Army Air Force. During July and August she interviewed a saucer pilot who crashed near Roswell, New

Mexico on July 8th, 1947. The being identified itself as an officer, pilot and engineer of The Domain Expeditionary Force, a race of beings who are using the asteroid belt in our solar system as a intergalactic base of operations. *Encyclopedia of Caves and Karst Science* - John Gunn 2004-08-02

The Encyclopedia of Caves and Karst Science contains 350 alphabetically arranged entries. The topics include cave and karst geoscience, cave archaeology and human use of caves, art in caves, hydrology and groundwater, cave and karst history, and conservation and management. The Encyclopedia is extensively illustrated with photographs, maps, diagrams, and tables, and has thematic content lists and a comprehensive index to facilitate searching and browsing.

The Geography of Georgia - Igor V. Bondyrev 2015-05-18

This book discusses the political and economic history and geography of Georgia, the problems

it has faced, and how it has overcome and is still overcoming them. In most countries, at the end of the 20th century the successful resolution of social-economic, political, demographic and ecological problems was largely dependent on effectively protecting the population and economic assets from natural disasters and on ensuring conditions for their sustainable development. These problems are most acute in mountainous regions like Georgia, where the unplanned development of natural ecosystems has had drastic consequences. It is therefore necessary to understand not only the probability of changing conditions (natural as well as political and demographic), but also the probability of the resulting economic losses. The book is divided into four sections; historical and political geography, geological processes, ecological processes and developmental geography. In the historical and political geography section the authors present a detailed discussion on ancient history, historical and

political geography, ethnic groups and religions, demographics and socio-cultural geography. The geological processes section contains information on geology, geodynamical processes, glacial and periglacial processes. The ecological processes section examines a variety of landscapes and ecosystems, aspects of deforestation, reforestation and desertification along with anthropogenic impacts on the environment. The developmental geography section looks at different economies, natural resources, sustainable development and climate change.

Five Lectures on Environmental Effects of Geothermal Utilization - Trevor M. Hunt 2001

Solar Energy Engineering - Soteris A. Kalogirou 2009-07-22

As perhaps the most promising of all the renewable energy sources available today, solar energy is becoming increasingly important in the drive to achieve energy independence and

climate balance. This new book is the masterwork from world-renowned expert Dr. Soteris Kalogirou, who has championed solar energy for decades. The book includes all areas of solar energy engineering, from the fundamentals to the highest level of current research. The author includes pivotal subjects such as solar collectors, solar water heating, solar space heating and cooling, industrial process heat, solar desalination, photovoltaics, solar thermal power systems, and modeling of solar systems, including the use of artificial intelligence systems in solar energy systems, modeling and performance prediction. *Written by one of the world's most renowned experts in solar energy *Covers the hottest new developments in solar technology, such as solar cooling and desalination *Packed with quick look up tables and schematic diagrams for the most commonly used systems today'

Antarctic Paleobiology - Thomas N. Taylor
2012-12-06

Antarctic Paleobiology discusses the current status of paleobiology, principally paleobotany and palynology in Antarctica, and the interrelationship of Antarctic floras to those of other Gondwana continents. It provides a broad coverage of the major groups of plants on the one hand, while on the other seeking to evaluate the vegetational history and the physical and biological parameters that influence the distribution of floras through time and space. The biologic activity is discussed within a framework of the geologic history, including the tectonic and paleogeographic history of the region. Finally, the reader will find a comprehensive bibliography of Gondwana paleobotany and palynology.

Essential Oils in Food Preservation, Flavor and Safety - Victor R. Preedy 2015-09-28

Essential Oils in Food Preservation, Flavor and Safety discusses the major advances in the understanding of the Essential Oils and their application, providing a resource that takes into

account the fact that there is little attention paid to the scientific basis or toxicity of these oils. This book provides an authoritative synopsis of many of the complex features of the essential oils as applied to food science, ranging from production and harvesting, to the anti-spoilage properties of individual components. It embraces a holistic approach to the topic, and is divided into two distinct parts, the general aspects and named essential oils. With more than 100 chapters in parts two and three, users will find valuable sections on botanical aspects, usage and applications, and a section on applications in food science that emphasizes the fact that essential oils are frequently used to impart flavor and aroma. However, more recently, their use as anti-spoilage agents has been extensively researched. Explains how essential oils can be used to improve safety, flavor, and function Embraces a holistic approach to the topic, and is divided into two distinct parts, the general aspects and named essential oils Provides

exceptional range of information, from general use insights to specific use and application information, along with geographically specific information Examines traditional and evidence-based uses Includes methods and examples of investigation and application

Chemical Process and Design Handbook - James Speight 2002

Control chemical processes to get the results you want Invaluable to chemical and environmental engineers as well as process designers, *Chemical Process and Design Handbook* shows you how to control chemical processes to yield desired effects efficiently and economically. The book examines each of the major chemical processes, such as reactions, separations, mixing, heating, cooling, pressure change, and particle size reduction and enlargement -- in logically arranged alphabetical chapters, providing you with an understanding of the essential qualitative analysis of each. The Handbook, from expert James Speight:

Emphasizes chemical conversions -- chemical reactions applied to industrial processing Provides easy-to-understand descriptions to explain reactor type and design Describes the latest process developments and possible future improvements or changes

The New Geology - George McCready Price 1923

Word Searches For Dummies - Denise Sutherland 2009-05-11

A travel-friendly puzzle-packed book that keeps the brain in shape One of the best ways to exercise the mind is through word and logic games like word searches and Sudoku. Studies have shown that doing word searches frequently can help prevent diseases like Alzheimer's and dementia. *Word Searches For Dummies* is a great way to strengthen the mind and keep the brain active plus, it's just plain fun! This unique guide features several different types of word searches that take readers beyond simply

circling the answer: secret shape word searches, story word searches, listless word searches, winding words, quiz word searches, and more. It provides a large number of puzzles at different levels that will both test and exercise the mind while keeping the reader entertained for hours.

Pigment Compendium - Nicholas Eastaugh
2008-09-10

This is an essential purchase for all painting conservators and conservation scientists dealing with paintings and painted objects. It provides the first definitive manual dedicated to optical microscopy of historical pigments. Illustrated throughout with full colour images reproduced to the highest possible quality, this book is based on years of painstaking research into the visual and optical properties of pigments. Now combined with the Pigment Dictionary, the most thorough reference to pigment names and synonyms available, the Pigment Compendium is a major addition to the study and understanding of historic pigments.

Nanomaterials and Environmental Biotechnology
- Indu Bhushan 2020-02-22

Nanotechnology is considered as one of the emerging fields of science. It has applications in different biological and technological fields which deal with the science of materials at nanoscale (10⁻⁹). On the other hand, biotechnology is another field that deals with contemporary challenges. Nanobiotechnology fills the gap between these two fields. It merges physical, chemical, and biological principles in a single realm. This combination opens up new possibilities. At nanoscale dimensions, it creates precise nanocrystals and nanoshells. Integrated nanomaterials are used with modified surface layers for compatibility with living systems, improved dissolution in water, or biorecognition leading to enhanced end results in biotechnological systems. These nanoparticles can also be hybridized with additional biocompatible substances in order to amend their qualities to inculcate novel utilities.

Nanobiotechnology is used in bioconjugate chemistry by coalescing up the functionality of non-organically obtained molecular components and biological molecules in order to veil the immunogenic moieties for targeted drug delivery, bioimaging and biosensing. This book blends the science of biology, medicine, bioinorganic chemistry, bioorganic chemistry, material and physical sciences, biomedical engineering, electrical, mechanical, and chemical science to present a comprehensive range of advancements. The development of nano-based materials has made for a greater understanding of their characterization, using techniques such as transmission electron microscope, FTIR, X-ray diffraction, scanning electron microscope EDX, and so on. This volume also highlights uses in environmental remediation, environmental biosensors and environmental protection. It also emphasizes the significance of nanobiotechnology to a series of medical applications viz., diagnostics, and

therapeutics stem cell technology, tissue engineering enzyme engineering, drug development and delivery. In addition this book also offers a distinctive understanding of nanobiotechnology from researchers and educators and gives a comprehensive facility for future developments and current applications of nanobiotechnology.

Molecular Diagnostics: Promises and

Possibilities - Mousumi Debnath 2010-01-29

A rapid development in diverse areas of molecular biology and genetic engineering resulted in emergence of variety of tools. These tools are not only applicable to basic researches being carried out world over, but also exploited for precise detection of abnormal conditions in plants, animals and human body. Although a basic researcher is well versed with few techniques used by him/her in the laboratory, they may not be well acquainted with methodologies, which can be used to work out some of their own research problems. The

picture is more blurred when the molecular diagnostic tools are to be used by physicians, scientists and technicians working in diagnostic laboratories in hospitals, industry and academic institutions. Since many of them are not trained in basics of these methods, they come across several gray areas in understanding of these tools. The accurate application of molecular diagnostic tools demands in depth understanding of the methodology for precise detection of the abnormal condition of living body. To meet the requirements of a good book on molecular diagnostics of students, physicians, scientists working in agricultural, veterinary, medical and pharmaceutical sciences, it needs to expose the reader lucidly to: Give basic science behind commonly used tools in diagnostics Expose the readers to detailed applications of these tools and Make them aware the availability of such diagnostic tools The book will attract additional audience of pathologists, medical microbiologists, pharmaceutical sciences,

agricultural scientists and veterinary doctors if the following topics are incorporated at appropriate places in Unit II or separately as a part of Unit-III in the book. Molecular diagnosis of diseases in agricultural crops Molecular diagnosis of veterinary diseases. Molecular epidemiology, which helps to differentiate various epidemic strains and sources of disease outbreaks. Even in different units of the same hospital, the infections could be by different strains of the same species and the information becomes valuable for infection control strategies. Drug resistance is a growing problem for bacterial, fungal and parasitic microbes and the molecular biology tools can help to detect the drug resistance genes without the cultivation and in vitro sensitivity testing. Molecular diagnostics offers faster help in the selection of the proper antibiotic for the treatment of tuberculosis, which is a major problem of the in the developing world. The conventional culture and drug sensitivity testing of tuberculosis

bacilli is laborious and time consuming, whereas molecular diagnosis offers rapid drug resistant gene detection even from direct clinical samples. The same approach for HIV, malaria and many more diseases needs to be considered. Molecular diagnostics in the detection of diseases during

foetal life is an upcoming area in the foetal medicine in case of genetic abnormalities and infectious like TORCH complex etc. The book will be equally useful to students, scientists and professionals working in the field of molecular diagnostics.