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RECENT TRENDS IN LIFE SCIENCES RESEARCH Recent Advancements and Research in Biological Sciences CURRENT TRENDS IN BIOLOGICAL SCIENCES Health Informatics and Technological Solutions for Coronavirus (COVID-19) CRC Handbook of Thermodynamic Data of Copolymer Solutions Sustainable Solutions for Elemental Deficiency and Excess in Crop Plants Geobiotechnological Solutions to Anthropogenic Disturbances Sustainable Solutions for Environmental Pollution, Volume 2 Role of Data-Intensive Distributed Computing Systems in Designing Data Solutions Bio-based Solutions for Sustainable Development of Agriculture The Journal of Physics and Chemistry of Solids Handbook of Splines Environmental Chemistry and Its Applications for the pollution Abatement Indian Journal of Chemistry Electronic Structure and Magnetism of Inorganic Compounds Electronic Structure and Magnetism of Inorganic Compounds Literature 1987, Part 2 Springer Handbook of Crystal Growth INIS Atomindex X-Ray Fluorescence in Biological Sciences Gold Ore Processing Proceedings of the Nuclear Chemistry & Radiochemistry Symposium, Andhra University, Waltair, February 25-28, 1980 Models and Techniques in Stroke Biology Electronic Structure and Magnetism of Inorganic Compounds Picosecond Spectroscopy in Solutions Nature Of Chemistry Volume - 2 Bibliography Canadian Journal of Physiology and Pharmacology Microbial Genomics in Sustainable Agroecosystems Model Test Papers For CBSE Mathematics - Class X Journal of Scientific and Industrial Research X-Ray Fluorescence in Biological Sciences Science Abstracts Literature 1988, Part 1 Applied Mechanics Reviews Marine Microbial Bioremediation Advanced Separations by Specialized Sorbents Chemistry of Superconductor Materials Indian Psychological Review Indian Journal of History of Science

X-Ray Fluorescence in Biological Sciences Discover a comprehensive exploration of X-ray fluorescence in chemical biology and the clinical and plant sciences In X-Ray Fluorescence in Biological Sciences: Principles, Instrumentation, and Applications, a team of accomplished researchers delivers extensive coverage of the application of X-ray fluorescence (XRF) in the biological sciences, including chemical biology, clinical science, and plant science. The book also explores recent advances in XRF imaging techniques in these fields. The authors focus on understanding and investigating the intercellular structures and metals in plant cells, with

advanced discussions of recently developed micro-analytical methods, like energy dispersive X-ray fluorescence spectrometry (EDXRF), total reflection X-ray fluorescence spectrometry (TXRF), micro-proton induced X-ray emission (micro-PIXE), electron probe X-ray microanalysis (EPXMA), synchrotron-based X-ray fluorescence microscopy (SXRF, SRIFE, or micro-XRF) and secondary ion mass spectrometry (SIMS). With thorough descriptions of protocols and practical approaches, the book also includes: A thorough introduction to the historical background and fundamentals of X-ray fluorescence, as well as recent developments in X-ray fluorescence analysis Comprehensive explorations of the general properties, production, and detection of X-rays and the preparation of samples for X-ray fluorescence analysis Practical discussions of the quantification of prepared samples observed under X-ray fluorescence and the relation between precision and beam size and sample amount In-depth examinations of wavelength-dispersive X-ray fluorescence and living materials Perfect for students and researchers studying the natural and chemical sciences, medical biology, plant physiology, agriculture, and botany, X-Ray Fluorescence in Biological Sciences: Principles, Instrumentation, and Applications will also earn a place in the libraries of researchers at biotechnology companies. From the reviews: "Astronomy and Astrophysics Abstracts has appeared in semi-annual volumes since 1969 and it has already become one of the fundamental publications in the fields of astronomy, astrophysics and neighbouring sciences. It is the most important English-language abstracting journal in the mentioned branches. ...The abstracts are classified under more than a hundred subject categories, thus permitting a quick survey of the whole extended material. The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences. As such it represents a necessary ingredient of any astronomical library all over the world." Space Science Reviews#1 "Dividing the whole field plus related subjects into 108 categories, each work is numbered and most are accompanied by brief abstracts. Fairly comprehensive cross-referencing links relevant papers to more than one category, and exhaustive author and subject indices are to be found at the back, making the catalogues easy to use. The series appears to be so complete in its coverage and always less than a year out of date that I shall certainly have to make a little more space on those shelves for future volumes." The Observatory Magazine#2 This book summarizes various tools and techniques used to provide insights into the cellular and molecular pathophysiology of stroke. It also presents

rodent animal models to help shed light on the pathophysiology of ischemic stroke. Presenting the latest information on the different types of stroke, including embolic, filament, photothrombotic, and bilateral common carotid artery, the book also describes techniques that are used for confirmation of stroke surgery, such as laser speckle imaging (LSI) and laser Doppler flowmetry (LDF), and discusses the non-human primates that are used in stroke surgery, cerebral venous sinus thrombosis, and neurobehavioral assessment. Lastly, it analyzes various neuroprotective agents to treat and prevent ischemic stroke, and examines the challenges and advances in treating and preventing acute ischemic stroke. The purpose of this book is to give a comprehensive introduction to the theory of spline functions, together with some applications to various fields, emphasizing the significance of the relationship between the general theory and its applications. At the same time, the goal of the book is also to provide new material on spline function theory, as well as a fresh look at old results, being written for people interested in research, as well as for those who are interested in applications. The theory of spline functions and their applications is a relatively recent field of applied mathematics. In the last 50 years, spline function theory has undergone a wonderful development with many new directions appearing during this time. This book has its origins in the wish to adequately describe this development from the notion of 'spline' introduced by I. J. Schoenberg (1901-1990) in 1946, to the newest recent theories of 'spline wavelets' or 'spline fractals'. Isolated facts about the functions now called 'splines' can be found in the papers of L. Euler, A. Lebesgue, G. Birkhoff, J. Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research. Written by experts in their specialist fields the series creates a unique service for the active research chemist, supplying regular critical in-depth accounts of progress in particular areas of chemistry. For over 80 years the Royal Society of Chemistry and its predecessor, the Chemical Society, have been publishing reports charting developments in chemistry, which originally took the form of Annual Reports. However, by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born. The Annual Reports themselves still existed but were divided into two, and subsequently three, volumes covering Inorganic, Organic and Physical Chemistry. For more general coverage of the highlights in chemistry they remain a 'must'. Since that time the SPR series has altered according to the fluctuating degree of activity in various fields

of chemistry. Some titles have remained unchanged, while others have altered their emphasis along with their titles; some have been combined under a new name whereas others have had to be discontinued. The current list of Specialist Periodical Reports can be seen on the inside flap of this volume. Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research. Written by experts in their specialist fields the series creates a unique service for the active research chemist, supplying regular critical in-depth accounts of progress in particular areas of chemistry. For over 80 years the Royal Society of Chemistry and its predecessor, the Chemical Society, have been publishing reports charting developments in chemistry, which originally took the form of Annual Reports. However, by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born. The Annual Reports themselves still existed but were divided into two, and subsequently three, volumes covering Inorganic, Organic and Physical Chemistry. For more general coverage of the highlights in chemistry they remain a 'must'. Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry. Some titles have remained unchanged, while others have altered their emphasis along with their titles; some have been combined under a new name whereas others have had to be discontinued. The current list of Specialist Periodical Reports can be seen on the inside flap of this volume. Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of the literature concerning all aspects of astronomy, astrophysics, and their border fields. It is devoted to the recording, summarizing, and indexing of the relevant publications throughout the world. Astronomy and Astrophysics Abstracts is prepared by a special department of the Astronomisches Rechen-Institut under the auspices of the International Astronomical Union. Volume 44 records literature published in 1987 and received before February 15, 1988. Some older documents which we received late and which are not surveyed in earlier volumes are included too. We acknowledge with thanks contributions of our colleagues all over the world. We also express our gratitude to all organizations, observatories, and publishers which provide us with complimentary copies of their publications. Dr. Siegfried Böhme retired from his duties as co-editor of Astronomy and Astrophysics Abstracts on December 31, 1987. Since 1950 he participated in the bibliographic work of the institute. He served as a reviewer for the Astronomischer Jahresbericht and became

one of the editors of *Astronomy and Astrophysics Abstracts* in 1969. After his retirement in 1975 he took care of, particularly, the Russian literature on a voluntary basis for 12 years. It is a pleasure to thank Siegfried Böhme for his valuable contributions. Starting with Volume 33, all the recording, correction, and data processing work was done by means of computers. The recording was done by our technical staff members Ms. Helga Ballmann, Ms. Christiane Jehn, Ms. Monika Kohl, Ms. Gold Ore Processing: Project Development and Operations, Second Edition, brings together all the technical aspects relevant to modern gold ore processing, offering a practical perspective that is vital to the successful and responsible development, operation, and closure of any gold ore processing operation. This completely updated edition features coverage of established, newly implemented, and emerging technologies; updated case studies; and additional topics, including automated mineralogy and geometallurgy, cyanide code compliance, recovery of gold from e-waste, handling of gaseous emissions, mercury and arsenic, emerging non-cyanide leaching systems, hydro re-mining, water management, solid-liquid separation, and treatment of challenging ores such as double refractory carbonaceous sulfides. Outlining best practices in gold processing from a variety of perspectives, *Gold Ore Processing: Project Development and Operations* is a must-have reference for anyone working in the gold industry, including metallurgists, geologists, chemists, mining engineers, and many others. Includes several new chapters presenting established, newly implemented, and emerging technologies in gold ore processing Covers all aspects of gold ore processing, from feasibility and development stages through environmentally responsible operations, to the rehabilitation stage Offers a mineralogy-based approach to gold ore process flowsheet development that has application to multiple ore types By browsing about 10 000 000 scientific articles of over 200 major journals some 200 000 publications were selected. The extracted data is part of the following material research fields: crystal structures (S), phase diagrams (C) and intrinsic physical properties (P). These research field codes as well as the chemical systems investigated in each publication were included in the present work. The aim of this Bibliography is to provide researchers with a comprehensive compilation of all up to now published scientific publications on inorganic systems in only three handy volumes. *X-Ray Fluorescence in Biological Sciences* Discover a comprehensive exploration of X-ray fluorescence in chemical biology and the clinical and plant sciences In *X-Ray Fluorescence in Biological Sciences: Principles, Instrumentation, and Applications*, a

team of accomplished researchers delivers extensive coverage of the application of X-ray fluorescence (XRF) in the biological sciences, including chemical biology, clinical science, and plant science. The book also explores recent advances in XRF imaging techniques in these fields. The authors focus on understanding and investigating the intercellular structures and metals in plant cells, with advanced discussions of recently developed micro-analytical methods, like energy dispersive X-ray fluorescence spectrometry (EDXRF), total reflection X-ray fluorescence spectrometry (TXRF), micro-proton induced X-ray emission (micro-PIXE), electron probe X-ray microanalysis (EPXMA), synchrotron-based X-ray fluorescence microscopy (SXRF, SRIXE, or micro-XRF) and secondary ion mass spectrometry (SIMS). With thorough descriptions of protocols and practical approaches, the book also includes: A thorough introduction to the historical background and fundamentals of X-ray fluorescence, as well as recent developments in X-ray fluorescence analysis Comprehensive explorations of the general properties, production, and detection of X-rays and the preparation of samples for X-ray fluorescence analysis Practical discussions of the quantification of prepared samples observed under X-ray fluorescence and the relation between precision and beam size and sample amount In-depth examinations of wavelength-dispersive X-ray fluorescence and living materials Perfect for students and researchers studying the natural and chemical sciences, medical biology, plant physiology, agriculture, and botany, X-Ray Fluorescence in Biological Sciences: Principles, Instrumentation, and Applications will also earn a place in the libraries of researchers at biotechnology companies. This book offers a problem-and-solution approach to environmental remediation in mining, including the environmentally sustainable utilization of waste materials from the mining industry. It largely comprises articles published in Springer journals, which have been thoroughly revised and expanded. With supplementary data and illustrations, it discusses specific problem areas in relevant Caribbean locations and provides an overview of geotechnical and microbial solutions to prevent post-mining deterioration in this area. Advanced Separations by Specialized Sorbents opens a new window into sorbent materials, presenting fundamental principles for their syntheses and adsorption properties. The book presents advanced techniques used to create specialized sorbents with a wide range of functions that can be used to enhance the separation and/or purification of useful bio Current Trends in Biological Sciences are more inclined toward interdisciplinary studies. The present book provides a balanced approach to

higher levels of biological organization. It also serves in the emerging disciplines of conservation biology and natural resource management. Recent developments in the technologies have led to a better understanding of the living system and this has removed the demarcations between various disciplines of biological sciences. This book discusses and interprets major issues in environmental science, environmental technology, the effect of climate and weather on sericulture and aquaculture, toxicology, ecotoxicology, oncology, epidemiology, public health, biology and control of insect pests, haloarchaea, antimicrobials, transgenic plant development, ethnobotany, food and nutrition, pharmaceutical, soil science, biofertilizers this is all used to understand the challenges found in biological sciences. We attempted to provide up-to-current knowledge based on a basic concept in biological research involving a merger of diverse disciplines. Moreover, it takes a futuristic look at such important topics as sustainability, environmental problems and the relationship between toxicology, ecotoxicology and environmental science. CBSE Model Test Papers For Class 10 Mathematics by EduGorilla comes with:

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SUSTAINABLE SOLUTIONS FOR ENVIRONMENTAL POLLUTIONS This second volume in a broad, comprehensive two-volume set, “Sustainable Solutions for Environmental Pollution”, concentrates on air, water, and soil reclamation, some of the biggest challenges facing environmental engineers and scientists today. This second, new volume in the two-volume set, *Sustainable Solutions for Environmental Pollution*, picks up where volume one left off, covering the remediation of air, water, and soil environments. Outlining new methods and technologies for all three environmental scenarios, the authors and editor go above and beyond, introducing naturally-based techniques in addition to changes and advances in more standard methods. Written by some of the most well-known and respected experts in the field, with a prolific and expert editor, this volume takes a multidisciplinary approach, across many scientific and engineering fields, intending the two-volume set as a “one-stop shop” for all of the advances and emerging techniques and processes in this area. This groundbreaking new volume in this forward-thinking set is the most comprehensive coverage of all of these issues, laying out the latest advances and addressing the most serious current concerns in environmental pollution. Whether for the veteran engineer or the student, this is a must-have for any

library. This volume: Offers new concepts and techniques for air, water, and soil environment remediation, including naturally-based solutions Provides a comprehensive coverage of removing heavy chemicals from the environment Offers new, emerging techniques for pollution prevention Is filled with workable examples and designs that are helpful for practical applications Is useful as a textbook for researchers, students, and faculty for understanding new ideas in this rapidly emerging field AUDIENCE: Petroleum, chemical, process, and environmental engineers, other scientists and engineers working in the area of environmental pollution, and students at the university and graduate level studying these areas. This book discusses the application of data systems and data-driven infrastructure in existing industrial systems in order to optimize workflow, utilize hidden potential, and make existing systems free from vulnerabilities. The book discusses application of data in the health sector, public transportation, the financial institutions, and in battling natural disasters, among others. Topics include real-time applications in the current big data perspective; improving security in IoT devices; data backup techniques for systems; artificial intelligence-based outlier prediction; machine learning in OpenFlow Network; and application of deep learning in blockchain enabled applications. This book is intended for a variety of readers from professional industries, organizations, and students. Recent trends in life sciences research is more inclined towards interdisciplinary studies. Recent developments in the technologies have led to a better understanding of living systems and this has removed the demarcations between various disciplines of life sciences. A new trend in life science incorporates biological research involving a merger of diverse disciplines such as ecology, microbiology, toxicology and meteorology etc. The book encompasses topics on habitat ecology, biology of apis and apiculture, Cyanobacterial diversity, adaptation of microorganisms, Antibacterial activity, fungal glucose, prawn culture, concept of ecosystem, ozone depletion and global warming, halophilic archaea flourish in hypersaline environment and lycopenene: preventive effects against cadmium injury in different tissues, Microbial enzymes and their applications, Phytochemical and antibacterial activity distributed throughout fifteen chapters for the benefits of graduate and postgraduate students as well as young researchers and scientists. In addition, this book provide newer techniques and the use of modern tools in achieving the potential of ecology, microbiology, toxicology, apiculture, aquaculture, meteorology, extremophiles, Immunotherapy of Cancer and Marine

bacterial enzymes this is all used to understand the challenges found in life sciences. Reflecting the growing volume of published work in this field, researchers will find this book an invaluable source of information on current methods and applications. This reference text presents statistical information, causes and impacts of coronavirus on populations, economics, and environment. The text includes machine learning and deep learning techniques to understand exponential behavior as well as predicting the future reachability of the COVID-19 outbreak. It discusses important concepts including smart sensors for early stage diagnosis, diagnosis of COVID-19 using low power IoT-enabled systems, biomedical imaging and sensor fusion, and electronic solutions for diagnosis, monitoring, and treatment of diseases. Aimed at graduate students and professionals in the field of electrical engineering, electronics and communications engineering, biomedical engineering and nanomaterials, this book discusses fundamental aspects and latest research in the field of COVID-19 covers diagnostics techniques in detail provides overview of the symptoms, preventions, and treatments related to COVID-19 discusses android-based mobile applications helpful in spreading awareness of COVID-19 Over the years, many successful attempts have been chapters in this part describe the well-known processes made to describe the art and science of crystal growth, such as Czochralski, Kyropoulos, Bridgman, and o- and many review articles, monographs, symposium v- ing zone, and focus speci cally on recent advances in umes, and handbooks have been published to present improving these methodologies such as application of comprehensive reviews of the advances made in this magnetic elds, orientation of the growth axis, intro- eld. These publications are testament to the grow- duction of a pedestal, and shaped growth. They also ing interest in both bulk and thin- lm crystals because cover a wide range of materials from silicon and III–V of their electronic, optical, mechanical, microstructural, compounds to oxides and uorides. and other properties, and their diverse scienti c and The third part, Part C of the book, focuses on - technological applications. Indeed, most modern ad- lution growth. The various aspects of hydrothermal vances in semiconductor and optical devices would growth are discussed in two chapters, while three other not have been possible without the development of chapters present an overview of the nonlinear and laser many elemental, binary, ternary, and other compound crystals, KTP and KDP. The knowledge on the effect of crystals of varying properties and large sizes. The gravity on solution growth is presented through a c- literature devoted to basic understanding

of growth parison of growth on Earth versus in a microgravity mechanisms, defect formation, and growth processes environment. Increased industrialization and urbanization has polluted the marine environment, the largest ecosystem. Hence, sincere efforts must be made to decontaminate marine ecosystem for sustainable use of oceans and their bioresources. Microbial population in the marine environment plays a very crucial role in degrading, transforming and detoxifying the pollutants. This book presents contributions from leading scientists across the globe who have worked extensively on polluted marine ecosystem in removal of pollutants, mycoremediation of salinity ingressed soils, etc. This book will be useful to the scientific community, stake holders and policy makers involved in research related to environmental microbiology and marine microbiology in particular. The book will also be of benefit to the student community interested in marine microbial bioremediation. Reviews the chemistry of high Tc superconductors. Provides the structural and synthetic solid-state chemistry of oxide superconductors as well as reference material on characterization methods. In this book, we have selected the 19 research and review articles for publication. The chapters in this book reflect a wide range of fundamental and applied research in the chemical sciences, environmental science and interdisciplinary subjects. This book is a unique collection of full research papers as well as reviews. In the 1st chapter, describes advances of aviation fuel derived from renewable sources is a “DROP-IN” alternative for air transport as it has a similar high energy density and meets all the required fuel specifications. Major challenges faced by the industry with respect to the development of alternative aviation fuel are - high quality standards requirements, safety issues, wide range of operational conditions and drop-in kind with traditional aviation jet fuel. In the 2nd chapter, To describes significant optical features of luminescent materials have drawn immense appreciation in all walks of life including organic dyes, metal-organic frameworks, lanthanide compounds, semiconductor-based quantum dots, and carbon-based nanodots, which attribute numerous applications to these Luminescent materials. Moreover, they have been proven important in various applications, including gas storage and separation, heterogeneous catalysis, light-harvesting, chemical sensing, bio-imaging, and drug delivery. In the 3rd chapter, describes introduction of mixed ligand dithiolate complexes of cobalt, synthesis of mixed ligand complexes of cobalt (II) with dithiolate (1-methoxy carbonyl –1- cyano ethylene -2,2- dithiolate) and nitrogen donors. In the 4th chapter, Mixed ligand complexes of the type

[Ni(L)_n(dithio)] n=1 or 2 L= OPD, and various substituted pyridines, dithio=(NaS)₂C=C(CN) COOMe.H₂O have been synthesized and characterized. In the 5th chapter, discussed about conducting polymers (CPs) are chemical compounds or mixtures of compounds composed of structural units formed during the polymerization process. The prospective uses of CPs, particularly in the realm of electronic manufacturing, have piqued the curiosity of researchers. In the 6th chapter, BiOCl nanomaterial have been acknowledged as potential and promising environmental remediation material because of their low costs, low toxicities, and enormous stabilities as well as resourceful photocatalytic activities of various hazardous environmental pollutants including dyes, pesticides and several other organic pollutants etc. In the 7th chapter, discuss about polyaniline (PANI) which is reviewed as environmental remediation. In the 8th chapter, describe a the low cost activated carbon based adsorbent derived from the fruit of Kigelia Africana (KA), was characterized for effective removal of Pb (II) from its aqueous solution and determine the rate of adsorption. In the 9th chapter, discuss about Ionic liquid which has emerged as intriguing modern material in science and technology. To better comprehend and investigate the unusual and fascinating characteristics of ionic liquids. In the 10th chapter, to prepare the nanocomposites of Titania by solution impregnation method and used as photocatalyst for the degradation of acetic acid at various factors. In the 11th chapter, discuss about health and socioeconomic conditions which are inextricably linked. A substantial beneficial influence on economic success is ensured by the general population's well health. Cardiovascular complexity is the single most serious health problem in India. Hypertension is a key risk factor for cardiovascular disease. In the 12th chapter, discuss about waste management. There is need for framing policies for effective management of waste and above all implementation of them by the authority and adherence to them by the general public. In the 13th chapter highlights the potential of Hierarchical Nanostructured 3D Flowerlike BiOX (X=Cl, Br, I) microsphere as a remarkable technology towards the environmental remediation processes of various hazardous and persistent environmental pollutants. In the 14th chapter, to prepared the nanoparticles of zirconium oxide and characterized them by the some characterization techniques. In the 15th chapter, discuss about waste management which involves the procedures and actions necessary to manage waste from generation to disposal. This covers waste collection, transportation, treatment, and disposal, as well as waste management process monitoring

and control, as well as waste-related legislation, technology, and economic processes. In the 16th chapter, discuss about the role of probiotic milk in human health. The numerous perceived health benefits and the growing awareness about probiotics have caught the attention of the food industry. Food companies are increasingly manufacturing foods with incorporated probiotic bacteria, which fall under the new category of foods called Functional Foods. In the 17th chapter, discuss the recent trend and modification in TiO₂ nanostructured based super hydrophobic surfaces of different type of materials. Further the application potential of the artificial super hydrophobic surfaces such as self-cleaning; water/oil separation and anti-fogging etc. In the 18th chapter, reviews the iron polyphenols interaction which cause to the colour formation during the sugar processing. The chemical structure of various phenolic acid which presents in sugar cane juice are interact with the Fe(III) through chemical reaction or by changing conditions which results in the various colourant formation during sugar formation are described. In the 19th chapter, discuss about carbon footprint which is used to calculate the individual carbon emission which includes to the atmosphere every day. in the recent years causes lots of carbon emission and in turn increase the global warming, which is harmful to the present, and future of the earth and its living beings. The Handbook of Thermodynamic Data of Copolymer Solutions is the world's first comprehensive source of this vital data. Author Christian Wohlfarth, a chemical thermodynamicist specializing in phase equilibria of polymer and copolymer solutions and a respected contributor to the CRC Handbook of Chemistry and Physics, has gathered up-to-the-minute data from more than 300 literature sources. Fully committed to ensuring the reliability of the data, the author included results in the handbook only if numerical values were published or if authors provided their numerical results by personal communication. With volumetric, calorimetric, and various phase equilibrium data on more than 165 copolymers and 165 solvents, this handbook furnishes: 250 vapor-pressure isotherms 75 tables of Henry's constants 50 LLE data sets 175 HPPE data sets 70 PVT data tables Carefully organized, clearly presented, and fully referenced, The Handbook of Thermodynamic Data of Copolymer Solutions will prove a cardinal contribution to the open literature and invaluable to anyone working with copolymers. CRC Handbook of Thermodynamic Data of Polymer Solutions, Three Volume Set CRC Handbook of Thermodynamic Data of Polymer Solutions at Elevated Pressures CRC Handbook of Thermodynamic Data of Aqueous Polymer

Solutions CRC Handbook of Thermodynamic Data of Copolymer Solutions

In recent decades, significant advances in new methodologies like DNA sequencing and high-throughput sequencing have been used to identify microorganisms and monitor their interactions with different environments. Microbial genomics techniques are opening new approaches to microbiology by revealing how microorganisms affect human beings and the environment. This book covers four major areas: 1) Environmental microbial genomics, 2) Microbial genomics in human health, 3) Microbial genomics in crop improvement and plant health protection, and 4) Genome analysis of microbial pathogens. Within these areas, the topics addressed include: microbial genome diversity, evolution, and microbial genome sequencing; bioinformatics and microarray-based genomic technologies; functional genomics of bioremediation of soil and water from organic and inorganic pollutants and carbon management; functional genomics of microbial pathogens and relevant microorganisms; functional genomics of model microorganisms; and applied functional genomics. Given its scope, the book offers a comprehensive source of information on the latest applications of microorganisms and microbial genomics to enhance the sustainability of agriculture and the environment. Recent Advancement and Research in Biological Sciences is more inclined towards interdisciplinary studies. Recent developments in the technologies have led to a better understanding of living systems and this has removed the demarcations between various disciplines of life sciences. A new trend in life science incorporates biological research involving a merger of diverse disciplines such as (Zoology: Entomology & Fisheries, comparative anatomy of vertebrates and toxicology), Botany etc. The book encompasses topics on Biology of stored grains insect-pests and control, Cadmium toxicity in liver and pancreas of albino mice, COVID-19, Phytochemical analysis and antibacterial activity of Hibiscus rosasinensis, Larvicidal fishes and public health, comparative anatomy: Urinogenital system of vertebrates, role of citrus flavonoids in the management of diabetes, environmental diseases with special reference to carcinogenesis and radiation injuries, symptoms and diseases of food fishes, biosphere, protective role of Zingiber officinalis on arsenic induced genotoxicity in albino mice, preventive effect of Curcuma longa against cadmium and different techniques used for chromosomal analysis of spiders, Carica papaya - A Comprehensive Review, Cardiovascular disease comorbidity, Phytase, effect of plant derived extracts on the Oviposition of Aedes aegypti, PHB production by Halophilic Archaea, Pharmacogenomics, Insect - pests Management or

Integrated Insect-pests Management, Antimicrobial activity of Marine Red Algae, Protective Effect of Montelukast, Polyherbal formulations for Hepatoprotection, Therapeutical uses of Syzygium cumini distributed throughout Twenty four chapters for the benefits of graduate and postgraduate students as well as young researchers and scientists. In addition, this book provide newer techniques and the use of modern tools in achieving the potential of ecology, toxicology, Entomology, Fisheries, comparative anatomy of vertebrates and COVID-19, this is all used to understand the challenges found in biological sciences. This book covers all aspects of deficiency of essential elements and excess of toxic ones in crop plants. The metal deficiency and toxicity are the two sides of same problem that are threatening to sustainable agricultural growth. The book presents prospective strategies for the management of elemental nutrition of crop plants. Chapters are arranged in a manner so as to develop a lucid picture of the topic beginning from basics to advanced research. The content is supplemented with flow charts and figures to make it convenient for readers to holistically grasp the concepts. It will be a value addition for students, research scholars and professionals in understanding the basics as well latest developments in the area of metal deficiency and excess in crop plants.

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