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# **Chemistry Chhatrapati Shahu Ji Maharaj University**

This book is based on the principles, limitations, challenges,

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improvements and applications of nanotechnology in medical science as described in the literature. It highlights various parameters affecting the synthesis of bio-nanomaterials and exclusive techniques utilized for

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characterizing the nanostructures for their potential use in biomedical and environmental applications. Moreover, biodegradable synthesis of nanomaterials is regarded as an important tool to reduce the

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destructive effects associated with the traditional methods of synthesis for nanostructures commonly utilized in laboratory and industry and as well as academic scale of innovative research foundation.

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This book is focused on the current status of industrial pollution, its source, characteristics, and management through various advanced treatment technologies. The book covers the recycle, reuse and recovery of waste for the

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production of value-added products. The book explores industrial wastewater pollution and its treatment through various advanced technologies and also the source and characteristics of solid waste and its management

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for environmental safety. It discusses new methods and technologies to combat the waste-related pollution and focuses on the use of recycled products. This book is of value to upcoming students, researchers, scientists,

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industry persons and professionals in the field of environmental science and engineering, microbiology, biotechnology, toxicology, further it is useful for global and local authorities and policy makers responsible for the



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management of liquid and solid wastes.

This book is a sequel to the author's Engineering Physics Part I and is written to address the course curriculum in Engineering Physics-II (Course Code EAS-102)

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of the B.Tech syllabus of the Uttar Pradesh Technical University. The book is designed to meet the needs of the first-year undergraduate students of all branches of engineering. It provides a sound understanding of

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the important phenomena in  
physics.

Volume 2: The Global Arena  
Bioinformatics  
Frontiers in Natural Product  
Chemistry: Volume 6  
Perspectives and Promotion

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Biomedical Aspects of Histamine

*This latest version of Information*

*Resources in Toxicology (IRT)*

*continues a tradition established in*

*1982 with the publication of the first*

*edition in presenting an extensive*

*itemization, review, and commentary*

*on the information infrastructure of the*

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*field. This book is a unique wide-ranging, international, annotated bibliography and compendium of major resources in toxicology and allied fields such as environmental and occupational health, chemical safety, and risk assessment. Thoroughly updated, the current edition analyzes*

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*technological changes and is rife with online tools and links to Web sites. IRT-IV is highly structured, providing easy access to its information. Among the “hot topics covered are Disaster Preparedness and Management, Nanotechnology, Omics, the Precautionary Principle, Risk*

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*Assessment, and Biological, Chemical and Radioactive Terrorism and Warfare are among the designated. • International in scope, with contributions from over 30 countries • Numerous key references and relevant Web links • Concise narratives about toxicologic sub-disciplines • Valuable*

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*appendices such as the IUPAC  
Glossary of Terms in Toxicology •  
Authored by experts in their respective  
sub-disciplines within toxicology  
Molecular Aspects of Plant Beneficial  
Microbes in Agriculture explores their  
diverse interactions, including the  
pathogenic and symbiotic relationship*



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*which leads to either a decrease or increase in crop productivity. Focusing on these environmentally-friendly approaches, the book explores their potential in changing climatic conditions. It presents the exploration and regulation of beneficial microbes in offering sustainable and alternative*

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*solutions to the use of chemicals in agriculture. The beneficial microbes presented here are capable of contributing to nutrient balance, growth regulators, suppressing pathogens, orchestrating immune response and improving crop performance. The book also offers insights into the*

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*advancements in DNA technology and bioinformatic approaches which have provided in-depth knowledge about the molecular arsenal involved in mineral uptake, nitrogen fixation, growth promotion and biocontrol attributes. Covers the molecular attributes of biocontrol, PGPR and mycorrhizal*

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*associations involved in the three-way interaction between beneficial microbes-host-pathogen Explores the role of technological interventions in exploring molecular mechanisms Provides detailed and comprehensive insights about recent trends in the use of microbial genetic engineering for*

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*agricultural application*

*This is a solitary attempt to streamline all the possible information related to citrus nutrition, with emphasis on diagnosis and management of nutrient constraints, employing a variety of state-of-art techniques evolved globally over the years . While doing so care*

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*has been taken to include peripheral disciplines so that the discussion becomes more lively and authoritative.*

*An entire array of exclusive subjects has been nicely portrayed with the help of latest data and photographs.*

*Phytotechnologies*

*Frontiers in Computational Chemistry:*

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Volume 4

*RECENT TRENDS IN CHEMICAL  
SCIENCES AND ENVIRONMENTAL  
SCIENCE*

*Viral Hemorrhagic Fevers: Advances in  
Research and Treatment: 2011 Edition  
Recent Developments in Bioenergy  
Research*

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***Recent Advances in Decolorization and Degradation of Dyes in Textile Effluent by Biological Approaches outlines various eco-friendly, cost effective methods for removal of toxic textile dyes. Large amounts***



***of dye are unbound and released into the environment due to inefficient dyeing processes. The release of wastewater containing dye into the environment has several adverse effects as it is toxic, mutagenic and has other***

***undesirable effects on living organisms. Hence, it is necessary to remove these dyes from industrial effluents to have a sustainable environment. This book deals with conventional as well as advanced effective***

***treatment methods for the removal of dyes in order to increase the domain knowledge of readers. Salient features: Describes physico-chemical characteristics of textile effluent, dye classes and toxicity of dyes***

***commonly used in the textile industry Assembles effective approaches which are used to remove dyes from textile effluent prior to their release into the environment Presents several advanced approaches such as***

***genetic engineering,  
nanotechnology, immobilized  
cells or enzymes, biofilms and  
microbial fuel cells, etc. for the  
removal of dyes.***

***This book collates the latest  
trends and technological***

***advancements in bioremediation, especially for its monitoring and assessment. Divided into 18 chapters, the book summarizes basic concepts of waste management and bioremediation, describes***

***advancements of the existing technologies, and highlights the role of modern instrumentation and analytical methods, for environmental clean-up and sustainability. The chapters cover topics such as the role of***

***microbial fuel cells in waste management, microbial biosensors for real-time monitoring of bioremediation processes, genetically modified microorganisms for bioremediation, application of***



***immobilized enzyme reactors, spectroscopic techniques, and in-silico approaches in bioremediation monitoring and assessment. The book will be advantageous not only to researchers and scholars***

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***interested in bioremediation and sustainability but also to professionals and policymakers. Cyclic Amino Acids—Advances in Research and Application: 2012 Edition is a ScholarlyEditions™ eBook that delivers timely,***

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***authoritative, and  
comprehensive information  
about Cyclic Amino Acids. The  
editors have built Cyclic Amino  
Acids—Advances in Research  
and Application: 2012 Edition on  
the vast information databases***

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***of ScholarlyNews.™ You can expect the information about Cyclic Amino Acids in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and***

***relevant. The content of Cyclic Amino Acids—Advances in Research and Application: 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All***

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***of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with***

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credibility. More information is  
available at [http://www.Scholarly  
Editions.com/](http://www.Scholarly<br/>Editions.com/).***

***Soil Fertility Management for  
Sustainable Development  
Emerging Treatment***

***Technologies for Waste  
Management  
Current Perspectives  
Cyclic Amino Acids—Advances in  
Research and Application: 2012  
Edition  
Students' Britannica India:***



***Phytotechnologies:  
Remediation of  
Environmental Contaminants  
highlights the use of  
natural and inherent  
traits of plants and***

***associated microbes to  
exclude, accumulate, or  
metabolize a variety of  
contaminants, with the  
goal of efficiently and  
sustainably  
decontaminating the***

***biosphere from unwanted hazardous compounds. Contributed by an international team of authors, the book ensures a balance between theory and practice without***

***compromising the basic conceptual framework of Phytotechnologies. Divided into three major sections, the book: Introduces contaminants and contaminated sites, and***

*also highlights the  
significance of genus  
Brassica and vetiver grass  
species for varied  
environmental  
contaminants' remediation  
Presents an exhaustive*

***exploration of potential  
strategies for enhancing  
plants and associated  
microbes-mediated  
environmental  
contaminants' remediation  
Overviews major***

***physiological,  
biochemical, and genetic-  
molecular mechanisms  
responsible for plant  
tolerance and adaptation  
to varied environmental  
contaminants A one-stop***

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***source of cutting edge  
answers and time-saving  
access, Phytotechnologies:  
Remediation of  
Environmental Contaminants  
is a common platform for  
engineers, environmental***



***microbiologists, plant  
physiologists, and  
molecular biologists with  
the common aim of  
sustainable solutions to  
vital environmental  
issues. In short, the book***

***provides a conceptual  
overview of ecosystems  
approaches and  
phytotechnologies, and  
their cumulative  
significance in relation  
to various environmental***

***problems and potential solutions.***

***Viral Hemorrhagic Fevers:  
Advances in Research and  
Treatment: 2011 Edition is  
a ScholarlyBrief™ that  
delivers timely,***

***authoritative,  
comprehensive, and  
specialized information  
about Viral Hemorrhagic  
Fever in a concise  
format. The editors have  
built Viral Hemorrhagic***

***Fevers: Advances in  
Research and Treatment:  
2011 Edition on the vast  
information databases of  
ScholarlyNews.™ You can  
expect the information  
about Viral Hemorrhagic***

***Fevers in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Viral***

***Hemorrhagic Fevers:  
Advances in Research and  
Treatment: 2011 Edition  
has been produced by the  
world's leading  
scientists, engineers,  
analysts, research***

*institutions, and  
companies. All of the  
content is from peer-  
reviewed sources, and all  
of it is written,  
assembled, and edited by  
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information is available***

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at <http://www.ScholarlyEditions.com/>.

*Bioinformatics: Methods and Applications provides a thorough and detailed description of principles, methods, and applications*

***of bioinformatics in  
different areas of life  
sciences. It presents a  
compendium of many  
important topics of  
current advanced research  
and basic***

***principles/approaches  
easily applicable to  
diverse research settings.  
The content encompasses  
topics such as biological  
databases, sequence  
analysis, genome assembly,***

***RNA sequence data analysis, drug design, and structural and functional analysis of proteins. In addition, it discusses computational approaches for vaccine design,***

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***systems biology and big data analysis, and machine learning in bioinformatics. It is a valuable source for bioinformaticians, computer biologists, and***

***members of biomedical field who needs to learn bioinformatics approaches to apply to their research and lab activities. Covers basic and more advanced developments of***

***bioinformatics with a  
diverse and  
interdisciplinary approach  
to fulfill the needs of  
readers from different  
backgrounds Explains in a  
practical way how to***



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***decode complex biological problems using computational approaches and resources Brings case studies, real-world examples and several protocols to guide the***

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*readers with a problem-  
solving approach*  
**Biographical Notes about  
Men & Women of Achievement  
of Today & Tomorrow  
Science & Culture  
SOUVENIR of 1st**

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***International Science  
Congress (ISC-2011)  
Indian Journal of  
Chemistry  
Delineating Health and  
Health System: Mechanistic  
Insights into Covid 19***

## ***Complications***

Environmental Management of Waste  
Electrical and Electronic Equipment  
illustrates the socioeconomic,  
technical and environmental  
perspectives of WEEE, allowing for a  
better understanding on how to  
manage this rapidly growing waste

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stream. The book addresses discharge of WEEE into ecosystems, occupational exposure to hazardous components of WEEE, and loss of recoverable resources, bridging the gap between community and waste management. By providing in-depth analysis and step-by-step descriptions

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of environmental strategies and procedures for managing electrical and electronic waste, this book is a valuable resource for environmental scientists, environmental engineers, and waste management professionals to achieve sustainability in WEEE. Presents the latest knowledge on the

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origin, identification and adverse effects of WEEE on humans and ecosystems Offers up-to-date analysis on environmental management tools, such as LCA, health risk, legalization, and policies for sustainable solutions for Waste Electrical and Electronic Equipment (WEEE) Includes details

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and analysis of the novel approaches proposed in recent years for resource recovery from WEEE

Issues in Rheumatology Research and Practice: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about



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Clinical Rheumatology. The editors have built Issues in Rheumatology Research and Practice: 2013 Edition on the vast information databases of ScholarlyNews.<sup>TM</sup> You can expect the information about Clinical Rheumatology in this book to be deeper than what you can access

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anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Rheumatology Research and Practice: 2013 Edition has been produced by the world ' s leading scientists, engineers, analysts, research institutions, and companies. All of the

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<http://www.ScholarlyEditions.com/>.  
Functional Materials Processing for  
Switchable Device Modulation focuses  
on the advances of nanofabrication  
that underpin emerging technologies,  
including electronic devices. The book  
provides readers with a broad view of  
the materials ' perspectives, including

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historical context and background, along with future opportunities for smart electronic and switchable devices. A major focus in the book is on the research and development of synthetic materials for spectroscopic analysis which broadly deals with science and technology of materials

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on the atomic and molecular scale. The book reviews the materials and advances in research for switchable electronics for bioelectronic, sensing and optoelectronic applications. In addition, key challenges and emerging opportunities in innovations in surface modification and novel functional

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materials device implementation for industrial scale reproducibility are discussed. The book covers the applications and market potential for a variety of media, including mirrors, glazing/coatings, and display products. The physics, electrochemistry, device design and materials are detailed, with

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performance compared between the most relevant and emerging switchable technologies. Addresses the most interesting advances in switchable devices for bioelectronics, electronics, optoelectronics and sensing applications Includes a special emphasis on materials design,



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processing and fabrication of switchable devices to realize large-scale industry applications Compares the performance of existing innovative switchable devices Reviews the remaining barriers to commercialization, along with opportunities to address these

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challenges

Bio-manufactured Nanomaterials

The Year Book of the Indian National

Science Academy

Scholarly Brief

Emerging Trends and Strategies

Information Resources in Toxicology

The International Science Congress

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Association (ISCA) organized the 1st International Science Congress (ISC-2011) at Indore, M.P. India with Science and Technology for Sustainable Development as its focal theme. The congress was hosted by Maharaja Ranjit Singh College of Professional Sciences on 24th and 25th December 2011. It was

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distributed in 20 sections. A total 900 Research Papers and 1300 registrations all over the world were received.

Delegates from Malaysia, Egypt, Bangladesh, Nigeria, Indonesia, Iran, South Africa, Iraq, Mexico, Japan, Uganda, Pakistan, Kingdom of Saudi Arabia, Russia, Latvia, Nepal,

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Lithuanian and from length and breadth of our nation participated in the ISC-2011.

Many herbs and spices, in addition to their culinary use for taste, contain chemical compounds which have medicinal uses. For this reason, herbs and spices have been used for treating

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various ailments since ancient times. Modern scientific methods have enabled researchers to isolate bioactive compounds from herbs and spices and perform chemical analyses, which can be used to develop medicines to treat different diseases. This book series is a compilation of current reviews on studies

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performed on herbs and spices. Science of Spices & Culinary Herbs is essential reading for medicinal chemists, herbalists and biomedical researchers interested in the science of natural herbs and spices that are a common part of regional diets and folk medicine.

This Rapra Review Report, Coatings and

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Inks for Food Contact Materials, has attempted to cover all of the coatings and inks products used in food contact scenarios. In practice, this encompasses an extremely wide range of polymer systems and formulations, and an emphasis has been placed on coatings and inks used in food packaging, as this



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is usually regarded as representing the most important application category with respect to the potential for migration to occur. In addition to a thorough introduction of the polymers and additives that are used to produce coatings and inks, there are also chapters covering the regulation of these

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materials, the migration and analytical tests that are performed on them to assess their suitability for food contact applications, the migration data that have been published, and the areas in the field that are receiving the most attention for research and development. The report is accompanied by around 400 abstracts

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compiled from the Polymer Library, to facilitate further reading on this subject.

The Shaping of Indian Science:

1982-2003

Methods and Applications

Coatings and Inks for Food Contact

Materials

Synthesis Protocols, Mechanisms and

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Applications

Bio-Based Nanomaterials

Frontiers in Natural Product

Chemistry is a book series devoted to publishing monographs that highlight important advances in natural product chemistry. The

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series covers all aspects of research in the chemistry and biochemistry of naturally occurring compounds, including research on natural substances derived from plants, microbes and animals. Reviews of structure elucidation, biological

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activity, organic and experimental synthesis of natural products as well as developments of new methods are also included in the series. The sixth volume of the series brings five reviews covering these topics: -  
Plant protein hydrolyzates from

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underutilized agricultural and agroindustrial sources: production, characterization and bioactive properties - New developments in the quinolone class of antibacterial drugs - Structure of fine starch prepared via a compressed hot

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water process - Major metabolites  
of certain marketed plant alkaloids -  
Natural products in cancer  
chemoprevention and chemotherapy  
Bio-based Nanomaterials: Synthesis  
Protocols, Mechanisms and  
Applications summarizes recent



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developments in biocompatible and biodegradable materials, including their properties, fabrication methods, synthesis protocols and applications. The extensive use of petrochemicals, rising levels of plastic waste and manufacturing of

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non-biodegradable materials is a major environmental problem across the globe. Bio-based nanomaterials offer potential alternatives to address these challenging issues. The book covers key bio-based nanomaterials -

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including chitin, starch and nanocellulose – detailing their core properties, associated fabrication methods and synthesis protocols. Later chapters look at the range of applications for bio-based nanomaterials, from food and

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agriculture to environmental and biomedical. This book offers a detailed reference for those interested in sustainable nanoscale materials, including materials scientists, biomedical engineers, environmental scientists, food and

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agriculture manufacturers and scientists. Covers a range of available bio-based nanomaterials, including chitin, starch and nanocellulose Details the properties and characteristics of each bio-based nanomaterial, focusing on

biocompatibility and biodegradability of sustainable materials Reviews the fabrication methods and synthesis protocols available, discussing the pros and cons of each Considering the ever-increasing

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global population and finite arable land, technology and sustainable agricultural practices are required to improve crop yield. This book examines the interaction between plants and microbes and considers the use of advanced techniques such

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as genetic engineering, revolutionary gene editing technologies, and their applications to understand how plants and microbes help or harm each other at the molecular level. Understanding plant-microbe interactions and



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related gene editing technologies will provide new possibilities for sustainable agriculture. The book will be extremely useful for researchers working in the fields of plant science, molecular plant biology, plant-microbe interactions,

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plant engineering technology, agricultural microbiology, and related fields. It will be useful for upper-level students and instructors specifically in the field of biotechnology, microbiology, biochemistry, and agricultural

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science. Features: Examines the most advanced approaches for genetic engineering of agriculture (CRISPR, TALAN, ZFN, etc.).

Discusses the microbiological control of various plant diseases.

Explores future perspectives for

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research in microbiological plant science. Plant-Microbial Interactions and Smart Agricultural Biotechnology will serve as a useful source of cutting-edge information for researchers and innovative professionals, as well as upper-level

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undergraduate and graduate  
students taking related agriculture  
and environmental science courses.

Textbook Of Engineering Physics

Remediation of Environmental

Contaminants

Functional Materials Processing for

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Switchable Device Modulation  
Plant-Microbial Interactions and  
Smart Agricultural Biotechnology  
Advances in Citrus Nutrition  
This is a compendium of the  
speeches of the Presidents of the  
Indian Science Congress

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Association (ISCA) from 1914-2003. Through the years, these Presidents have inspired the Congress by their speeches—some of them visionary, some impassioned in their plea for Science, but all of them with a message that Science must be

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used for the good of the human race.

Recent Developments in Bioenergy Research reviews all these topics, reports recent research findings, and presents potential solutions to challenging issues. The book consolidates the



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most recent research on the (bio)technologies, concepts and commercial developments that are currently in progress on different types of widely-used biofuels and integrated biorefineries across biochemistry, biotechnology, biochemical

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engineering and microbiology.  
Chapters include very  
recent/emerging topics, such as  
non-ionic and ionic  
liquids/surfactants for  
enhancement of lignocellulose  
enzymatic hydrolysis and  
lignocellulose biomass as a rich

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source of bio-ionic liquids. The book is a useful source of information for those working in the area of- industrial wastewater treatment and microbial fuel cells, but is also a great resource for senior undergraduate and graduate students, researchers,

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professionals, biochemical engineers and other interested individuals/groups working in the field of biofuel/bioenergy. Provides unique information on biomass-based biofuels for fundamental and applied research Outlines research

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advancements in the areas of bio-hydrogen, bioethanol, bio-methane and biorefineries  
Includes emerging topics on biomass (including wastes) characterization and its uses as a resource for environmental bioremediation and bioenergy

Reviews enzyme engineering for biomass to bioproducts and biochemicals, lipids/bio-oil  
Focuses on biological/biochemical routes, as these options have the greatest potential to be the most cost-effective methods for

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biofuel/bioenergy production  
Soil fertility is the backbone of agricultural systems and plays a key role in determining food quantity and quality. In recent decades, soil fertility has decreased due to indiscriminate use of agrochemicals, and nations

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around the globe are now facing the challenge of increasing food production while sustainably maintaining soil fertility. Written by leading international scientists in the field, this book explores soil fertility management strategies, including agronomic,



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microbiological and soil-science based strategies. Highlighting the practices that can be incorporated into organic farming and discussing recent advances, it is a valuable resource for researchers wanting to broaden their vision and the scope of their

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investigations.

Environmental Management of  
Waste Electrical and Electronic  
Equipment

Molecular Aspects of Plant  
Beneficial Microbes in Agriculture  
Reference India: M-R

Recent Advances in

Decolorization and Degradation of  
Dyes in Textile Effluent by  
Biological Approaches  
Reference India

***This new fifth edition of  
Information Resources in  
Toxicology offers a***

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***consolidated entry portal  
for the study, research,  
and practice of  
toxicology. Both volumes  
represents a unique, wide-  
ranging, curated,  
international, annotated***

***bibliography, and  
directory of major  
resources in toxicology  
and allied fields such as  
environmental and  
occupational health,  
chemical safety, and risk***

***assessment. The editors  
and authors are among  
the leaders of the  
profession sharing their  
cumulative wisdom in  
toxicology's  
subdisciplines. This***

***edition keeps pace with the digital world in directing and linking readers to relevant websites and other online tools. Due to the increasing size of the***

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***hardcopy publication, the current edition has been divided into two volumes to make it easier to handle and consult.***

***Volume 1: Background, Resources, and Tools,***

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***arranged in 5 parts,  
begins with chapters on  
the science of toxicology,  
its history, and  
informatics framework in  
Part 1. Part 2 continues  
with chapters organized***

***by more specific subject such as cancer, clinical toxicology, genetic toxicology, etc. The categorization of chapters by resource format, for example, journals and***

***newsletters, technical reports, organizations constitutes Part 3. Part 4 further considers toxicology's presence via the Internet, databases, and software tools.***

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***Among the miscellaneous topics in the concluding Part 5 are laws and regulations, professional education, grants and funding, and patents.***  
***Volume 2: The Global***

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***Arena offers contributed chapters focusing on the toxicology contributions of over 40 countries, followed by a glossary of toxicological terms and an appendix of popular***

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***quotations related to the field. The book, offered in both print and electronic formats, is carefully structured, indexed, and cross-referenced to enable users to easily find***

***answers to their questions or serendipitously locate useful knowledge they were not originally aware they needed. Among the many timely topics***

***receiving increased  
emphasis are disaster  
preparedness,  
nanotechnology, -omics,  
risk assessment, societal  
implications such as  
ethics and the***



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***precautionary principle,  
climate change, and  
children's environmental  
health. Opens with an  
overview of the  
international toxicology  
scene, organizations and***

***activities involved with both the science and regulatory framework, and a specific look at the European Union's efforts. Offers an extensive collection of chapters***

***covering over 40  
countries and their  
toxicological  
infrastructure which  
includes listings of major  
books and journals,  
organizations,***

***professional societies,  
universities, poison  
control centers,  
legislation, and online  
databases. Provides the  
Second Edition of the  
International Union of***

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***Pure and Applied  
Chemistry's Glossary of  
Terms Used in  
Toxicology, a carefully  
constructed and peer  
reviewed collation of  
critical terms in the***

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***science. Concludes with a  
potpourri of quotes  
concerning toxicology  
and their use in the arts  
and popular culture.***

***Paired with Volume One,  
which offers chapters on***

***a host of toxicology sub-disciplines, this set offers the most comprehensive compendium of print, digital, and organizational resources in the toxicological***

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***sciences with over 120  
chapters contributions by  
experts and leaders in the  
field.***

***Phosphotransferases—Ad  
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***(Alcohol Group Acceptor).***

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***Our intention in  
publishing this book was  
to discuss and interpret***

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***all of the major issues in the chemical and environmental science disciplines, because this book covers such a broad range of chemical and environmental science***

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***research area. Rather, we have selected the themes and challenges, briefly defined them and demonstrated how they connect, clarified the terminology, and***

***indicated where further research may be accessed. We hope that the result is an excellent introduction to 'chemical and environmental science. It is primarily***

***aimed towards  
researchers in chemical  
science and related fields,  
but it should be  
accessible to new  
researchers as well. We  
have explored into more***

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***depth on issues that have received little attention elsewhere. There are several useful sources for topics such as chemical science, environmental science, nanotechnology,***

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***ionic liquids, solid waste management, photodegradation, Nanomaterial, adsorption of hazardous metals, and conducting polymers. However we attempted to***

***provide up-to-current knowledge, we are well aware that books may soon go out of date if they seek to provide too much detail, so we concentrated on basic concepts that***

***should not go out of  
fashion too quickly. Our  
book differs somewhat  
from other texts in the  
chemical and  
environmental sciences in  
its concentration. We***

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***have focused on ideas and theories because we feel that a solid grasp of them will be more useful in the long run than specifics of present systems, services, and approaches. We've***



***also highlighted the dimension since we feel it's critical to understand where the discipline and its components originated from and why some things are the way they***

***are. This approach is based on the research, with several references provided at the end of each chapter for convenience. Our intention is that the***

***content of this book will be sufficient to provide a fundamental knowledge of the entire field, and that readers will refer to the references for more information and examples***

***of the parts of which they are most interested. The conclusion words and captions, as well as the important references, at the conclusion of each chapter are intended to***

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***present the main points  
in a factual way.***

***Medicinal Plants and  
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management, computer and***



***molecular graphics, and the development of new computational methods or efficient algorithms for the simulation of chemical phenomena including analyses of biological activity. The***

***fourth volume of this series  
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studies of aminoacyl tRNA***

***synthetase inhibition in  
bacteria, computational  
modeling of halogen bonds in  
biological systems and  
molecular classification of  
caffeine and its metabolites.  
The book entitled Medicinal***

***Plants and Natural Product  
Research describes various  
aspects of  
ethnopharmacological uses of  
medicinal plants; extraction,  
isolation, and identification of  
bioactive compounds from***

***medicinal plants; various aspects of biological activity such as antioxidant, antimicrobial, anticancer, immunomodulatory activity, etc., as well as characterization of plant***

***secondary metabolites as active substances from medicinal plants.***

***Since its identification by Sir Henry H. Dale a century ago, histamine has become one of the most important***

***multifunctional biogenic amines in the field of biomedicine. The pharmacological effects of histamine are mediated through four types of membrane histamine***

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***receptors; H1R, H2R, H3R and H4R, which are all heptahelical G-protein-coupled receptors. It has been known to play the broadest spectrum of activities in various physiological and pathological conditions***



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***including cell proliferation,  
differentiation, hematopoiesis,  
embryonic development,  
regeneration, wound healing,  
aminergic neurotransmission  
and numerous brain functions,  
secretion of pituitary***

***hormones, regulation of  
gastrointestinal and  
circulatory functions,  
cardiovascular system, as well  
as inflammatory reactions,  
modulation of the immune  
response, endocrine function***

***and homeostasis, and other important areas. This book is a compendium of the current state of established and investigational literature on Histamine, its receptors and their Agonists and antagonists.***

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***It provides a comprehensive overview of histamine biology in the field of biochemistry, cell biology, molecular biology, immunology, allergy, neurobiology, pharmacology, microbiology and reproductive***

***biology. The first section on Histamine biology and physiology leads into subsequent sections on enzymology, pharmacology, regulation of the immune system and cell proliferation***

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***and role in allergic and other diseases including acid peptic diseases, inflammatory diseases, autoimmune and cancer diseases, nervous system, reproductive functions and hematopoiesis. The***

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***compilation of chapters in the book presents the most recent advances in histamine research and bridges the basic and clinical aspects of histamine biology.***

***Inorganic, bio-inorganic,***

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***physical, theoretical &  
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