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Advances and Avenues in the Development of Novel Carriers for Bioactives and Biological Agents provides sound data on the utility of biological and plant-based drugs and describes challenges faced in all aspects offering indispensable strategies to use in the development of bioactive medicines. Bioactive based medications are commonly used throughout the world and have been recognized by physicians and patients for their therapeutic efficacy. Bioactive formulations, including their subordinates and analogs, address 50% of all medicines in clinical practice. Novel bioactive medicine transporters can cure many disorders by both spatial and transitory approaches and have various justifications in medicinal potential. This book presents information on the utility of natural, plant, animal and bioengineered bioactive materials. It is a fundamental source of information and data for pharmacognosists, pharmaceutical analysts, drug transport scientists and pharmacologists working in bioactive medications. Advances information on various bioactive based medications, their sources, clinical consequences and transport strategies Illustrates diverse transport systems for bioactives and derivatives, novel techniques for formulations, targeting strategies and fundamental qualities of developed bioactive carriers, and their safety concerns and standardization Discusses distinctive transport systems, stability, upgraded dissolvability, and enhanced bioavailability of bioactives

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Due to the increase in the consumption of herbal medicine, there is a need to know which scientifically based methods are appropriate for assessing the quality of herbal medicines. Fingerprinting has emerged as a suitable technique for quality estimation. Chemical markers are used for evaluation of herbal medicines. Identification and quantification of these chemical markers are crucial for quality control of herbal medicines. This book provides updated knowledge on methodology, quality assessment, toxicity analysis and medicinal values of natural compounds.

Proceedings of meeting held at School of Studies in Physics and Astrophysics, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, 23rd-25th February, 2011.

Nanobiosensors: Nanotechnology in the Agri-Food Industry, Volume 8, provides the latest information on the increasing demand for robust, rapid, inexpensive, and safe alternative technologies that monitor, test, and detect harmful or potentially dangerous foods. Due to their high sensitivity and selectivity, nanobiosensors have attracted attention for their use in monitoring not only biological contaminants in food, but also potential chemical and physical hazards. This book offers a broad overview regarding the current progress made in the field of nanosensors,

including cutting-edge technological progress and the impact of these devices on the food industry. Special attention is given to the detection of microbial contaminants and harmful metabolotes, such as toxins and hormones, which have a great impact on both humans and animal health and feed. Includes the most up-to-date information on nanoparticles based biosensors and quantum dots for biological detection Provides application methods and techniques for research analysis for bacteriological detection and food testing Presents studies using analytical tools to improve food safety and quality analysis

The population of the world continues to increase at an alarming rate. The trouble linked with overpopulation ranges from food and water scarcity to inadequacy of space for organisms. Overpopulation is also linked with several other demographic hazards, for instance, population blooming will not only result in exhaustion of natural repositories, but it will also induce intense pressure on the world economy. Today nanotechnology is often discussed as a key discipline of research but it has positive and negative aspects. Also, due to industrialization and ever-increasing population, nano-pollution has been an emerging topic among scientists for investigation and debate. Nanotechnology measures any substance on a macromolecular scale, molecular scale, and even atomic scale. More importantly, nanotechnology deals with the manipulation and control of any matter at the dimension of a single nanometer. Nanotechnology and nanoparticles (NPs) play important roles in sustainable development and environmental challenges as well. NPs possess both harmful and beneficial effects on the environment and its harboring components, such as microbes, plants, and humans. There are many beneficial impacts exerted by nanoparticles, however, including their role in the management of waste water and soil treatment, cosmetics, food packaging, agriculture, biomedicines, pharmaceuticals, renewable energies, and environmental remedies. Conversely, NPs also show some toxic effects on microbes, plants, as well as human beings. It has been reported that use of nanotechnological products leads to the more accumulation of NPs in soil and aquatic ecosystems, which may be detrimental for living organisms. Further, toxic effects of NPs on microbes, invertebrates, and aquatic organisms including algae, has been measured. Scientists have also reported on the negative impact of NPs on plants by discussing the delivery of NPs in plants. Additionally, scientists have also showed that NPs interact with plant cells, which results in alterations in growth, biological function, gene expression, and development. Thus, there has been much investigated and reported on NPs and plant interactions in the last decade. This book discusses the most recent work on NPs and plant interaction, which should be useful for scientists working in nanotechnology across a wide variety of disciplines.

Demographics reveal that the proportion of elderly individuals in the population is growing at a significant rate. Advances in medicine have allowed populations to live longer than ever; however, ensuring that these individuals have the tools necessary to sustain a productive and happy lifestyle as they age remains a concern. Optimizing Assistive Technologies for Aging Populations focuses on the development and improvement of devices intended to assist elderly individuals in coping with various physical limitations and disabilities. Highlighting the available tools and technologies for supporting the mobility, agility, and self-sufficiency of the aging population as well as the challenges associated with the integration of these technologies into the everyday lives of elderly individuals, this publication is ideally designed for reference use by healthcare workers, medical students, gerontologists, and IT developers in the field of medicine.

Advances and Avenues in the Development of Novel Carriers for Bioactives and Biological Agents provides sound data on the utility of biological and plant-based drugs and describes challenges faced in all aspects offering indispensable strategies to use in the development of bioactive medicines. Bioactive based medications are commonly used throughout

the world and have been recognized by physicians and patients for their therapeutic efficacy. Bioactive formulations, including their subordinates and analogs, address 50% of all medicines in clinical practice. Novel bioactive medicine transporters can cure many disorders by both spatial and transitory approaches and have various justifications in medicinal potential. This book presents information on the utility of natural, plant, animal and bioengineered bioactive materials. It is a fundamental source of information and data for pharmacognosists, pharmaceutical analysts, drug transport scientists and pharmacologists working in bioactive medications.

The complexity of cancer demands an integrated approach from both a cancer biology standpoint and a pharmaceutical basis to understand the different anticancer modalities. Current research has been focused on conventional and newer anticancer modalities, recent discoveries in cancer research, and also the advancements in cancer treatment. There is a current need for more research on the advances in cancer therapeutics that bridge the gap between basic research (pharmaceutical drug development processes, regulatory issues, and translational experimentation) and clinical application. Recent promising discoveries such as immunotherapies, promising therapies undergoing clinical trials, synthetic lethality, carbon beam radiation, and other exciting targeted therapies are being studied to improve and advance the studies of modern cancer treatment. The Handbook of Research on Advancements in Cancer Therapeutics serves as a comprehensive guide in modern cancer treatment by combining and merging the knowledge from both cancer biology and the pharmacology of anticancer modalities. The chapters come from multi-disciplinary backgrounds, including scientists and clinicians from both academia and various industries, to discuss nascent personalized therapies and big data-driven cancer treatment. While highlighting topic areas that include cancer prevention, cancer therapeutics, and cancer treatments through the lenses of technology, medicine/drugs, and alternate therapies, this book is ideally intended for oncologists, radiation oncologists, surgical oncologists, and cancer biologists, along with practitioners, stakeholders, researchers, academicians, and students who are interested in understanding the most fundamental aspects of cancer and the available therapeutic opportunities.

Genetic algorithms (GAs) are based on Darwin’s theory of natural selection and survival of the fittest. They are designed to competently look for solutions to big and multifaceted problems. Genetic algorithms are wide groups of interrelated events with divided steps. Each step has dissimilarities, which leads to a broad range of connected actions. Genetic algorithms are used to improve trading systems, such as to optimize a trading rule or parameters of a predefined multiple indicator market trading system. Genetic Algorithms and Applications for Stock Trading Optimization is a complete reference source to genetic algorithms that explains how they might be used to find trading strategies, as well as their use in search and optimization. It covers the functions of genetic algorithms internally, computer implementation of

pseudo-code of genetic algorithms in C++, technical analysis for stock market forecasting, and research outcomes that apply in the stock trading system. This book is ideal for computer scientists, IT specialists, data scientists, managers, executives, professionals, academicians, researchers, graduate-level programs, research programs, and post-graduate students of engineering and science.

This unique work compiles the latest knowledge around veterinary nutraceuticals, commonly referred to as dietary supplements, from ingredients to final products in a single source. More than sixty chapters organized in seven sections collate all related aspects of nutraceutical research in animal health and disease, among them many novel topics: common nutraceutical ingredients (Section-I), prebiotics, probiotics, synbiotics, enzymes and antibacterial alternatives (Section-II), applications of nutraceuticals in prevention and treatment of various diseases such as arthritis, periodontitis, diabetes, cognitive dysfunctions, mastitis, wounds, immune disorders, and cancer (Section-III), utilization of nutraceuticals in specific animal species (Section-IV), safety and toxicity evaluation of nutraceuticals and functional foods (Section-V), recent trends in nutraceutical research and product development (Section-VI), as well as regulatory aspects for nutraceuticals (Section-VII). The future of nutraceuticals and functional foods in veterinary medicine seems bright, as novel nutraceuticals will emerge and new uses of old agents will be discovered. International contributors to this book cover a variety of specialties in veterinary medicine, pharmacology, pharmacognosy, toxicology, chemistry, medicinal chemistry, biochemistry, physiology, nutrition, drug development, regulatory frameworks, and the nutraceutical industry. This is a highly informative and carefully presented book, providing scientific insight for academia, veterinarians, governmental and regulatory agencies with an interest in animal nutrition, complementary veterinary medicine, nutraceutical product development and research.

Arsenic is likely the most talked-about metalloid in the modern world because of its toxic effects on both animal and plants. Further, arsenic pollution is now producing negative impacts on food security, especially in many south Asian countries. Since plants are a major food source, their adaptation to As-rich environments is essential, as is being informed about recent findings on multifarious aspects of the mechanisms of arsenic toxicity and tolerance in plants. Although numerous research works and review articles have been published in journals, annual reviews and as book chapters, to date there has been no comprehensive book on this topic. This book contains 19 informative chapters on arsenic chemistry, plant uptake, toxicity and tolerance mechanisms, as well as approaches to mitigation. Readers will be introduced to the latest findings on plant responses to arsenic toxicity, various tolerance mechanisms, and remediation techniques. As such, the book offers a timely and valuable resource for a broad audience, including plant scientists, soil scientists, environmental scientists, agronomists, botanists and molecular biologists.

This book offers an essential textbook on complex analysis. After introducing the theory of complex analysis, it places special emphasis on the importance of Poincare theorem and Hartog's theorem in the function theory of several complex variables. Further, it lays the groundwork for future study in analysis, linear algebra, numerical analysis, geometry, number theory, physics (including hydrodynamics and thermodynamics), and electrical engineering. To benefit most from the book, students should have some prior knowledge of complex numbers. However, the essential prerequisites are quite minimal, and include basic calculus with some knowledge of partial derivatives, definite integrals, and topics in advanced calculus such as Leibniz's rule for differentiating under the integral sign and to some extent analysis of infinite series. The book offers a valuable asset for undergraduate and graduate students of mathematics and engineering, as well as students with no background in topological properties.

Energy Global energy demand has more than doubled since 1970. The use of energy is strongly related to almost every conceivable aspect of development: wealth, health, nutrition, water, infrastructure, education and even life expectancy itself are strongly and significantly related to the consumption of energy per capita. Many development indicators are strongly related to per-capita energy consumption. Fossil fuel is the most conventional source of energy but also increases greenhouse gas emissions. The economic development of many countries has come at the cost of the environment. However, it should not be presumed that a reconciliation of the two is not possible. The nexus concept is the interconnection between the resource energy, water, food, land, and climate. Such interconnections enable us to address trade-offs and seek synergies among them. Energy, water, food, land, and climate are essential resources of our natural environment and support our quality of life. Competition between these resources is increasing globally and is exacerbated by climate change. Improving resilience and securing resource availability would require improving resource efficiency. Many policies and programs are announced nationally and internationally for replacing the conventional mode and also emphasizing on conservation of fossil fuels and reuse of exhausted energy, so a gap in implications and outcomes can be broadly traced by comparing the data. This book aims to highlight problems and solutions related to conventional energy utilization, formation, and multitudes of ecological impacts and tools for the conservation of fossil fuels. The book also discusses modern energy services as one of the sustainable development goals and how the pressure on resource energy disturbs the natural flows. The recent advances in alternative energy sources and their possible future growth are discussed and on how conventional energy leads to greenhouse gas formation, which reduces energy use efficiency. The different policies and models operating is also addressed, and the gaps that remained between them. Climate change poses a challenge for renewable energy, and thus it is essential to identify the factors that would reduce the possibility of relying on sustainable energy sources. This book will be of interest to researchers and

stakeholders, students, industries, NGOs, and governmental agencies directly or indirectly associated with energy research.

This gives me an immense pleasure to announce that ‘RED’SHINE Publication, Inc’ is coming out with its third volume of peer reviewed, international journal named as ‘The International Journal of Indian Psychology. IJIP Journal of Studies‘is a humble effort to come out with an affordable option of a low cost publication journal and high quality of publication services, at no profit no loss basis, with the objective of helping young, genius, scholars and seasoned academicians to show their psychological research works to the world at large and also to fulfill their academic aspirations.

Nutraceuticals: Efficacy, Safety and Toxicity brings together all current knowledge regarding nutraceuticals and their potential toxic effects as written by the scientists at the forefront of their study. Users will find an introduction to nutraceuticals, herbal medicines, ayurvedic medicines, prebiotics, probiotics, and adaptogens, along with their use and specific applications. This essential reference then discusses the mechanism of action for the judicious use of these nutraceuticals and the best tools for their evaluation before detailing the safety and toxicity of nutraceuticals and their interactions with other therapeutic drugs. Finally, and crucially, regulatory aspects from around the world are covered, providing a comprehensive overview of the most effective tools for the evaluation, safety, and toxicity of nutraceuticals, prebiotics, probiotics, and alternative medicines. Grants an overview of the current state-of-the-science of nutraceuticals, their use and applications, and known adverse effects Provides effective tools to evaluate the potential toxicity of any nutraceutical Includes details of regulatory issues as written by international experts

The content of the book, Introduction to Pharmaceutical Analysis, has been prepared primarily in accordance to the syllabus prepared by the Pharmacy Council of India for B. Pharm 1st semester course. However, the content of the book is not limited to the syllabus only, it provides the information which are bare necessary to understand a particular concept but beyond the syllabus. Moreover, there are two Appendices, Appendix I and II at the end. These are equally important and need to be known. One is Test solutions and the other one is for Volumetric solutions. In fact, many students do not know the difference between these solutions that are essential for analysis. How to prepare all these solutions are mentioned there. Hence, the book would be a real helpful to all those who are associated to pharmaceutical analysis, may be during their post-graduation and during service pharmaceutical industry.

Published in two volumes, this new book, Advances in Sustainable Development and Management of Environmental and Natural Resources: Economic Outlook and Opinions, addresses the varied aspect of natural resources and their management in conjunction with socioeconomic aspects. With chapters from authors from around the world, this volume

features 24 chapters that cover many aspects of the sustainable utilization of management of natural resources and provides new insight into the nexus of ecology and economy and their application in various fields of science. The chapters include case studies and research from India, Africa, South America, and elsewhere. After first laying the foundation, the volume goes on to discuss sustainable development and natural resource management from an economics point of view. Chapters address myriad issues involved in natural resources and environmental management, including soil and water resources management in arid lands, resource management for agricultural purposes, contemporary global legal norms of environment and sustainable development, how emissions factor into regional economies, mitigation of the impact of climate change through sustainable practices, rainwater harvesting technology, and much more. The chapters include case studies that discuss soil, agroforestry, agriculture, wetlands, and floral diversity. The book provides a solid foundation for a realistic perspective of the role of sustainable development and management of natural resources while taking the socioeconomic impact into consideration as well. It will be a valuable resource and reference for the study of ecology, economics, sustainable development, natural resource management, and other allied fields.

ICDL conferences are recognized on of the most important platform in the world where noted expert share their experiences. Many DL experts have contributed thought provoking papers in ICDL 2013. These important papers are reviewed and conceptualized into ICDL on different areas of DL proceedings. The Proceedings have two volumes and has over 1100 pages.

ÿWriters Editors Critics (WEC) An International Biannual Refereed Journal of English Languageÿand Literature Volume 7 Number 1 (March 2017) ISSN: 2231 ? 198X RESEARCH PAPERS The Confessional Voice and Rebellious Cry of Kamala Das as Visualized in her Poetical Works: A Brief Analysis - S. Chelliah The Philosopher-Scientist A. P. J. Abdul Kalam and his World View: A Study - J. Pamela Artificial Intelligence and the Instrumental Marvellous in Isaac Asimov?s Foundation Novels - Lekshmi R. Nair Return to Wholeness: The Landscape of Willa Cather?s O Pioneers! - Vikas Bhardwaj Nation and Identity Defined through Bodies: A Study of Bapsi Sidhwa?s Ice Candy Man - Sonia Soni Ramesh K. Srivastava?s ?Under the Lamp?: A Study - Shipra G. Vashishtha Reinventing Roots in Esther David?s Book of Rachel - Giftsy Dorcas E. A Critical Reading of Authentic Existence in Claude Mckay?s Banana Bottom - S. Khethzi Kerena ?Write My Son, Write?: An Aesthetic and Spiritual Reflection of World by K V Dominic - Laxmi R. Chaughaan Nandini?s Sita: A Deep Dive to Every Woman?s Journey - Arti Chandel Lives on Pyre: A Socio-realistic Portrayal in D.C. Chambial?s The Cargoes of the Bleeding Hearts - Parthajit Ghosh& Dr. Madhu Kamra An Evolution of His Demography: A Socio-cultural Flow in the Fictional World of Manoj Das - Suresh Bera & Somali Gupta Maya Angelou?s Shaker, Why

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Who can buy? Students of BBA, B.Com, and law must buy this book as it is in their syllabus. General students interested in running a business should know the acts given in this book, so it is helpful for them as well. Business Regulatory Framework is specially designed to serve as an undergraduate textbook for B.Com. (Honors & General) students of the different universities across India. This book is designed especially to cater to the needs of commerce students, equipping them with a strong foundation for an understanding of the current business law situation. The book seeks to provide comprehensive coverage of the various topics relating to business law. It offers content that is simple to understand but does not compromise on necessary technical detail.

Financial Accounting for BBA has been written to meet the requirements of undergraduate students, particularly at the BBA level. This book covers the syllabi of major universities across the country, providing basic knowledge of accounting principles and practices in a systematic manner. The topics have been dealt with in a lucid manner to enable better understanding, especially for those students who do not have an accounting background. The text is examination-oriented and is supplemented with relevant solved illustrations for all the topics.

This book presents the state-of-the-art in plant ecophysiology. With a particular focus on adaptation to a changing environment, it discusses ecophysiology and adaptive mechanisms of plants under climate change. Over the centuries, the incidence of various abiotic stresses such as salinity, drought, extreme temperatures, atmospheric pollution, metal

toxicity due to climate change have regularly affected plants and, and some estimates suggest that environmental stresses may reduce the crop yield by up to 70%. This in turn adversely affects the food security. As sessile organisms, plants are frequently exposed to various environmental adversities. As such, both plant physiology and plant ecophysiology begin with the study of responses to the environment. Provides essential insights, this book can be used for courses such as Plant Physiology, Environmental Science, Crop Production and Agricultural Botany. Volume 1 provides up-to-date information on the impact of climate change on plants, the general consequences and plant responses to various environmental stresses.

From Darkness to Light is the true story of how two little-known men, guided by unseen celestial forces, confronted and overcame overwhelming obstacles to create a new understanding of the root causes of world disorder and its bitter fruit of widespread anxiety.

Luminescence of Solids gathers together much of the latest work on luminescent inorganic materials and new physical phenomena. The volume includes chapters covering -- the achievements that have led to the establishment of the fundamental laws of luminescence -- light sources, light-dispersing elements, detectors, and other experimental techniques -- models and mechanisms -- materials preparation, and -- future trends. This international collection of cutting-edge luminescence research is complemented by over 170 illustrations that bring to life the text's many vital concepts.

This book introduces the reader to synthetic or artificial seeds, which refer to alginate encapsulated somatic embryos, vegetative buds or any other micropropagules that can be used as seeds and converted into plantlets after propagating under in vitro or in vivo conditions. Moreover, synthetic seeds retain their potential for regeneration even after low-temperature storage. The production of synthetic or artificial seeds using micropropagules opens up new vistas in agricultural biotechnology. Encapsulated propagules could be used for in vitro regeneration and mass multiplication at reasonable cost. In addition, these propagules may be used for germplasm preservation of elite plant species and the exchange of plant materials between national and international laboratories. This book offers state-of-the-art findings on methods, applications and prospects of synthetic or artificial seeds.

An up-to-date overview of the characterization, risk assessment and remediation of mercury-contaminated sites. The book summarizes, for the first time, works from Europe, Russia and the American continent, and review chapters are supplemented by detailed, international case studies.

This study, first published in 1996, investigates the effects that local labor market conditions may have on the economic status of women and blacks, relative to their white male counterparts. More precisely, it examines the impact that local

labor market conditions have on estimates of labor market discrimination investigated in this study are wage discrimination and occupational discrimination. This title will be of interest to students of sociology, gender studies and urban studies.

Biocontrol and Secondary Metabolites: Applications and Immunization for Plant Growth and Protection covers established and updated research on emerging trends in plant defense signaling in, and during, stress phases. Other topics cover growth at interface as a sustainable way of life and the context of human welfare and conservation of fungi as a group of organisms. Further, the book explores induced systemic resistance using biocontrol agents and/or secondary metabolites as a milestone for sustainable agricultural production, thus providing opportunities for the minimization or elimination of the use of fungicides. Presents an overview on mechanisms by which plants protect themselves against herbivory and pathogenic microbes Identifies the use of immunization as a popular and effective alternative to chemical pesticides Explores how these fungi help crop plants in better uptake of soil nutrients, increase soil fertility, produce growth promoting substances, and secrete metabolites that act as bio-pesticides

Nanobiomaterials in Galenic Formulations and Cosmetics: Applications of Nanobiomaterials is one of the first books on the market related to the application of nanotechnology in galenic formulations and cosmetics. This book provides the results of current research for those working in an applied setting. The advantage of having all this information in one coherent text is the focused nature of the chapters and the ease of which this information can be accessed. This collection of titles brings together many of the novel applications these materials have in biology, and discusses the advantages and disadvantages of each application and the perspectives of the technologies based on these findings. At the moment there is no other comparable book series covering all the subjects approached in this set of titles. Offers an updated and highly structured reference material for students, researchers, and practitioners working in biomedical, biotechnological, and engineering fields Serves as a valuable resource of recent scientific progress, along with most known applications of nanomaterials in the biomedical field Features novel opportunities and ideas for developing or improving technologies in nanomedicine and nanobiology

With nanotechnology being a relatively new field, the questions regarding safety and ethics are steadily increasing with the development of the research. This book aims to give an overview on the ethics associated with employing nanoscience for products with everyday applications. The risks as well as the regulations are discussed, and an outlook for the future of nanoscience on a manufacturer’s scale and for the society is provided. Ethics in nanotechnology is a valuable resource for, philosophers, academicians and scientist, as well as all other industry professionals and researchers who interact with emerging social and philosophical ethical issues on routine bases. It is especially for deep learners who are enthusiastic to apprehend the challenges related to nanotechnology and ethics in philosophical and social education. This book presents an overview of new and emerging nanotechnologies and their societal and ethical implications. It is meant for students, academics, scientists, engineers, policy makers, ethicist, philosophers and all stakeholders involved in the development and use of nanotechnology.

Contributed articles.

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