

## **Sant Gadge Baba Amravati University M A Part I Arts**

*The fungal kingdom consists of a wide variety of organisms with a diverse range of forms and functions. Fungi have been utilized for thousands of years and their importance in agriculture, medicine, food production and the environmental sciences is well known. New advances in genomic and metabolomic technologies have allowed further developments in the use of fungi in industry and medicine, increasing the need for a compilation of new applications, developments and technologies across the mycological field. Applied Mycology brings together a range*

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*of contributions, highlighting the diverse nature of current research. Chapters include discussions of fungal associations in the environment, agriculture and forestry, long established and novel applications of fungi in fermentation, the use of fungi in the pharmaceutical industry, the growing recognition of fungal infections, current interests in the use fungal enzymes in biotechnology and the new and emerging field of myconanotechnology. Demonstrating the broad coverage and importance of mycological research, this book will be of interest to researchers and students in all biological sciences.*

*Pythium is one of the most important phytopathogens causing significant damage to agriculture, forest, and*

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*nurseries, etc. It is an unseen enemy of the root zone of various plants and hence considered as "hidden terror" for a number of plants. An accurate diagnosis and identification of Pythium causing various infections in plants is very important because it is often confused with several other fungi. Pythium infections are difficult to control once they have set in. Therefore, its effective and ecofriendly management is of paramount importance. In addition, there are many reports on Pythium causing infections in human beings and animals. The present book on Pythium focuses on various aspects which mainly include pathogenesis, technological developments in detection and diagnosis, and its management. Key Features Includes identification of Pythium spp. by traditional and molecular methods Deals*

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*with different diseases caused by Pythium spp Describes the role of Pythium in mammalian diseases Incorporates various management strategies Discusses emerging role of nanotechnological tools for the management of Pythium diseases*

*Mycotic keratitis, also known as fungal keratitis, is commonly defined as an inflammation of the cornea. Globally, mycotic keratitis is more common as compared to other eye disorders. Though it occurs in all parts of the world it is more prevalent in tropical and subtropical areas. Mycotic Keratitis emphasizes novel perspectives on mycotic keratitis treatments and addresses different therapies used in treatment. The book is designed to be immensely useful for the students and teachers of microbiology, medicine,*

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*mycology, ophthalmology, biotechnology and nanotechnology. Medical microbiology researchers in general and medical mycology in particular will find it a valuable user-friendly book.*

*VANET (vehicular ad hoc network) is a subgroup of MANET (mobile ad hoc network). It enables communication among vehicles on the road and between related infrastructures. This book addresses the basic elements of VANET along with components involved in the communication with their functionalities and configurations. It contains numerous examples, case studies, technical descriptions, scenarios, procedures, algorithms, and protocols, and addresses the different services provided by VANET with the help of a scenario showing a network tackling an emergency.*

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*Features:*

- Covers all important concepts of VANET for beginners and different road scenarios in VANET
- Covers essential communication protocols in VANET
- Introduces approaches for VANET implementation using simulators
- Provides a classification of messages and a priority-based message forwarding strategy

This book is aimed at undergraduates, postgraduates, industry, researchers, and research scholars in information and communications technology.

*A COVID-19 Case Study*

*Nanotechnology in Medicine*

*Nanotechnological applications in virology*

*Mechanisms and New Antimicrobial Approaches*

*Automotive Systems*

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### *Diagnosis, Diseases and Management*

Cloud computing is an emerging face of technology. It's become popular due to its flexible and cost reduction model. It is based on simple PAYG(Pay As You Go) terminology with sharing services and resources remotely through some trusted communication channel, by default Internet. We found an immediate need for some documentation on the topic. The book is not exhaustive in its content but we tried to touch as many aspects of cloud computing as possible. A comprehensive research is made by us before adding anything in the book. The book, right now, contains five chapters. We are planning to add five more chapters in

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the future edition of the book explaining cloud storage, security, process executions, providers, implementations etc. Right now we are analyzing the information collected.

The present edition of the book has been thoroughly revised and enlarged. Salient Features of the Book: The legal position as amended up to June 2020 is given. The law stated in the book is on the basis of the Income Tax Act, 1961 and the Income Tax Rules, 1962 as amended up to date, besides the Finance Act, 2020 and Circulars and Notifications issued by Central Board of Direct Taxes up to June 2020. A simplified, systematic approach to the understanding of a



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complex subject written in a unique, simple and easy to understand language. Each topic, after a theoretical exposition, is followed by illustrations to facilitate the students to master the practical application of Corporate Tax Law. The book is useful for the students of all professional examinations like M.B.A., C.A., C.S., ICWA, and M.Com. and the persons who are interested in Tax Planning.

The practice of biotechnology, though different in style, scale and substance in globalizing science for development involves all countries. Investment in biotechnology in the industrialised, the developing, and the least developed countries, is now amongst the

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widely accepted avenues being used for economic development. The simple utilization of kefir technology, the detoxification of injurious chemical pesticides e.g. parathion, the genetic tailoring of new crops, and the production of a first of a kind of biopharmaceuticals illustrate the global scope and content of biotechnology research endeavour and effort. In the developing and least developed nations, and in which the 9 most populous countries are encountered, problems concerning management of the environment, food security, conservation of human health resources and capacity building are important factors that influence the path to sustainable development. Long-term use of

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biotechnology in the agricultural, food, energy and health sectors is expected to yield a windfall of economic, environmental and social benefits. Already the prototypes of new medicines and of prescription fruit vaccines are available. Gene based agriculture and medicine is increasingly being adopted and accepted. Emerging trends and practices are reflected in the designing of more efficient bioprocesses, and in new research in enzyme and fermentation technology, in the bioconversion of agro industrial residues into bio-utility products, in animal healthcare, and in the bioremediation and medical biotechnologies. Indeed, with each new day, new horizons in biotechnology

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beckon.

In the era of the Internet of Things and Big Data, Cloud Computing has recently emerged as one of the latest buzzwords in the computing industry. It is the latest evolution of computing, where IT recourses are offered as services. Cloud computing provides on-demand, scalable, device-independent, and reliable services to its users. The exponential growth of digital data bundled with the needs of analysis, processing and storage, and cloud computing has paved the way for a cheap, secure, and omnipresent computing framework allowing for the delivery of enormous computing and storage capacity to a diverse community of end-

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recipients. Clouds are distributed technology platforms that leverage sophisticated technology innovations to provide highly scalable and resilient environments that can be remotely utilized by organizations in a multitude of powerful ways. The term cloud is often used as a metaphor for the Internet and can be defined as a new type of utility computing that basically uses servers that have been made available to third parties via the Internet.

An Augmented Reality Perspective  
Nanobiotechnology in Diagnosis, Drug Delivery and  
Treatment  
Fungal Enzymes

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VANET

Case Study on Status of Soft Skills Performance of Librarians in Colleges Affiliated Sant Gadge Baba Amravati University

Engineering Physics: For the Sant Gadge Baba Amravati University

Microbial Biodegradation and Bioremediation: Techniques and Case Studies for Environmental Pollution, Second Edition describes the successful application of microbes and their derivatives for bioremediation of potentially toxic and relatively novel compounds in the environment. Our natural biodiversity and environment is in danger due to the release of

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continuously emerging potential pollutants by anthropogenic activities. Though many attempts have been made to eradicate and remediate these noxious elements, thousands of xenobiotics of relatively new entities emerge every day, thus worsening the situation. Primitive microorganisms are highly adaptable to toxic environments, and can reduce the load of toxic elements by their successful transformation and remediation. This completely updated new edition presents many new technologies and techniques and includes theoretical context and case studies in every chapter. Microbial Biodegradation and Bioremediation: Techniques and Case Studies for Environmental Pollution, Second

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Edition serves as a single-source reference and encompasses all categories of pollutants and their applications in a convenient, comprehensive format for researchers in environmental science and engineering, pollution, environmental microbiology, and biotechnology. Describes many novel approaches of microbial bioremediation including genetic engineering, metagenomics, microbial fuel cell technology, biosurfactants and biofilm-based bioremediation Introduces relatively new hazardous elements and their bioremediation practices including oil spills, military waste water, greenhouse gases, polythene wastes, and more Provides the most advanced techniques in the field



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of bioremediation, including insilico approach, microbes as pollution indicators, use of bioreactors, techniques of pollution monitoring, and more Completely updated and expanded to include topics and techniques such as genetically engineered bacteria, environmental health, nanoremediation, heavy metals, contaminant transport, and in situ and ex situ methods Includes theoretical context and case studies within each chapter

Nanotechnological Applications in Virology explores the use of nanoparticles-based technologies to fight against viruses, also discussing the use of nanoparticles in the preparation of nano masks and as sanitizing agents. The role of nanotechnology against HIV, Hepatitis, Influenza,

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Herpes, Ebola and Zika using rapid detection and diagnostic techniques is included, as is a brief description of SARS, MERS, the novel Coronavirus, and recent advancements in its treatment process. Other sections cover the formulation of novel nano-vaccines for the treatment and control of viral infections like HIV, Hepatitis and COVID-19. Included toxicological studies of nanoparticles provide readers with a brief overview on global scenarios regarding viral infections.

Nanotechnology is the present age technology, with wide usage in different areas of medical science, including drug delivery, gene therapy, antimicrobials, biosensors and bio-labelling. Nanoparticles play a competent role as

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an anti-infection agent and thus act as efficient antiviral agents. Mitochondria as a Key Intracellular Target of Thallium Toxicity presents a new hypothesis that explains the decrease in antioxidant defense in thallium poisoning. In addition, the book proposes a new model for studying the transport of inorganic cations across the inner mitochondrial membrane. Readers will learn about the toxicity of thallium and its compounds, the toxicology of thallium, the toxic thallium effects on cells, and the effects of thallium on mitochondria. This book+J136 lists the pathways and mechanisms of thallium transport into cells and mitochondria. This toxicity has been analyzed at both the cellular and subcellular levels. The increase

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in human contact with the toxic trace element thallium is associated with developments in industry, the release of this metal into the environment from various rocks, and the use of special isotope techniques for studying the vascular bed.

Epidemic trend analysis, timeline progression, prediction, and recommendation are critical for initiating effective public health control strategies, and AI and data analytics play an important role in epidemiology, diagnostic, and clinical fronts. The focus of this book is data analytics for COVID-19, which includes an overview of COVID-19 in terms of epidemic/pandemic, data processing and knowledge extraction. Data sources, storage and

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platforms are discussed along with discussions on data models, their performance, different big data techniques, tools and technologies. This book also addresses the challenges in applying analytics to pandemic scenarios, case studies and control strategies. Aimed at Data Analysts, Epidemiologists and associated researchers, this book: discusses challenges of AI model for big data analytics in pandemic scenarios; explains how different big data analytics techniques can be implemented; provides a set of recommendations to minimize infection rate of COVID-19; summarizes various techniques of data processing and knowledge extraction; enables users to understand big data analytics techniques

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required for prediction purposes.

Focusing on the application of nanotechnology in pharmaceutical technology the editors seek to integrate the two in order to obtain innovative products and solutions in pharmacology. Interdisciplinary in content it is of interest to those who are involved in the development of nanoproducts including nanotechnologists, microbiologists, biotechnologists pharmacologists and clinicians. Recent studies are presented that include the biosynthesis of nanoparticles focusing on antimicrobials; nanomaterial-based formulations that treat cancer, infections, skin disorders and wounds; nanomaterials in eye diseases and toxicity

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and safety issues. It demonstrates the crucial role this plays in tackling multi-drug resistant threats.

Process Modeling, Simulation, and Environmental Applications in Chemical Engineering  
Antibiotic Resistance

Proceedings of the National Conference on Luminescence and Its Applications ; Sant Gadge Baba Amravati University, Amravati ; February 7-9, 2006

Pythium

COVID-19 Public Health Measures  
Engineering Physics

The identification of medically important fungi has been an important area of study that warrants further extensive

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research. The use of traditional and molecular methods of identification, provides new insights into differentiation of species and ultimately the line of treatment can be determined. This book incorporates a diverse group of medically important fungi and diseases, including common dermatophytes, onychomycosis, Coccidiomycosis, Paracoccidioidomycosis, Mycotic keratitis, Sporotrichosis, Histoplasmosis and determination of identity of medically important fungi by using modern techniques such as PCH and the use of MALDI-TOF: as a rapid and new approach in fungal diagnosis and differentiation.

Presents nanobiotechnology in drug delivery and disease management Featuring contributions from noted experts in the



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field, this book highlights recent advances in the nano-based drug delivery systems. It also covers the diagnosis and role of various nanomaterials in the management of infectious diseases and non-infectious disorders, such as cancers and other malignancies and their role in future medicine.

Nanobiotechnology in Diagnosis, Drug Delivery and Treatment starts by introducing how nanotechnology has revolutionized drug delivery, diagnosis, and treatments of diseases. It then focuses on the role of various nanocomposites in diagnosis, drug delivery, and treatment of diseases like cancer, Alzheimer's disease, diabetes, and many others. Next, it discusses the application of a variety of nanomaterials in the diagnosis and management of gastrointestinal tract disorders.

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The book explains the concept of nanotheranostics in detail and its role in effective monitoring of drug response, targeted drug delivery, enhanced drug accumulation in the target tissues, sustained as well as triggered release of drugs, and reduction in adverse effects. Other chapters cover aptamer-incorporated nanoparticle systems; magnetic nanoparticles; theranostics and vaccines; toxicological concerns of nanomaterials used in nanomedicine; and more. Provides a concise overview of state-of-the-art nanomaterials and their application like drug delivery in infectious diseases and non-infectious disorders Highlights recent advances in the nano-based drug delivery systems and role of various nanomaterials Introduces nano-based sensors which detect various pathogens

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Covers the use of nanodevices in diagnostics and theranostics  
Nanobiotechnology in Diagnosis, Drug Delivery and  
Treatment is an ideal book for researchers and scientists  
working in various disciplines such as microbiology,  
biotechnology, nanotechnology, pharmaceutical  
biotechnology, pharmacology, pharmaceuticals, and  
nanomedicine.

There has been emergence of multidrug resistance problem all  
over the world due to overuse or underuse of antibiotics. Most  
microbes including bacteria, fungi, protozoans and others have  
developed resistance to antibiotics, and therefore, this problem  
is now recognized to be of global concern. Ubiquitous  
occurrence of multidrug-resistant bacteria decreases

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effectiveness of current treatment, which results in thousands of deaths all over the world. Hence, investigations for new alternatives and novel strategies are urgently needed to address the problem of multidrug resistance. The antimicrobial potential of essential oils and metallic nanoparticles represent an effective solution for microbial resistance. Moreover, the use of essential oils in combination with metallic nanoparticles may exert synergistic antimicrobial effects and would be a novel approach. Essential oils (EOs) are volatile, natural, aromatic oily liquids that can be obtained from several parts of plants especially the aerial ones such as leaves and flowers. They are derived from complex metabolic pathways in order to protect plants from diverse pathogenic microorganisms. In

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fact, the bioactivity of EOs have been confirmed by several studies which have demonstrated their antibacterial, antiviral, anti-inflammatory, antifungal, antimutagenic, anticarcinogenic, and antioxidant properties. Nanotechnology is one of the most important and emerging technologies, which has brought about a technological revolution in the world. It has enormous applications in the field of medicine.

Nanoparticles are very important tools in curing different diseases in general and microbial diseases in particular due to their significantly novel and improved chemical, physical and biological properties and high surface area-to-volume ratio. Among these, metal nanoparticles are known to play pivotal role in various biomedical applications. In this context,

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nanoparticles such as silver have shown their potential and could emerge as the new generation of antimicrobials. Silver nanoparticles have broad-spectrum biological activities and hence are used in many biomedical applications. The various biomedical applications of silver nanoparticles include treatment of wounds, burns, in water-disinfecting systems, in nanobased bone implantations, in dentistry for the development of dental materials and as antibacterial, antivirals, anti-protozoals, anti-arthropods and anticancerous agents. Apart from silver, noble metal nanoparticles like gold and platinum and other nanoparticles copper, oxides of different metals, etc. have been also the materials of choice for many scientists for their biological applications. The book will

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be of interest to chemists, microbiologists, biotechnologist, food technologists, nanotechnologists, pharmacologists, clinicians and those interested in nature cure. Students will find this book useful and reader friendly.

This book takes a systematic approach to nanotoxicology and the developing risk factors associated with nanosized particles during manufacture and use of nanotechnology. Beginning with a detailed introduction to engineered nanostructures, the first part of the book presents concepts and definitions of nanomaterials from quantum dots to graphene to fullerenes, with detailed discussion of functionalization, stability, and medical and biological applications. The second part critically examines methodologies used to assess cytotoxicity and

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genotoxicity. Coverage includes interactions with blood (erythrocytes), combinatorial and microarray techniques, cellular mechanisms, and ecotoxicology assessments. Part three describes cases studies both in vitro and in vivo for specific nanomaterials including solid lipid nanoparticles and nanostructured lipid carriers and metallic nanoparticles and metallic oxides. New information is also presented on toxicological aspects of poloxamers and polymeric nanoparticles as drug carriers as well as size effects on cytotoxicity and genotoxicity. Didactic aspects are emphasized in all chapters, making the book suitable for a broad audience ranging from advanced undergraduate and graduate students to researchers in academia and industry. In all, Nanotoxicology:



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Materials, Methodologies, and Assessments will provide comprehensive insight into biological and environmental interactions with nanostructures. Provides an introduction to nanostructures actually in use Describes cyto- and genotoxicity methodologies, and assesses their performance in comparison to common toxicity assays Discusses the relation of cytotoxicity and genotoxicity to ecotoxicity Presents a range of applications, from biogenic silver nanoparticles to poloxamers as drug-delivery systems, reflecting the expanding applications of nanotechnology

Data Analytics for Pandemics

Additive Manufacturing and 3D Printing Technology

Future Trends in 5G and 6G

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NCLA 2006

Mycotic Keratitis

Processing to Applications

*Additive Manufacturing and 3D Printing Technology: Principles and Applications consists of the construction and working details of all modern additive manufacturing and 3D-printing technology processes and machines, while also including the fundamentals, for a well-rounded educational experience. The book is written to help the reader understand the fundamentals of the systems. This book provides a selection of*

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*additive manufacturing techniques suitable for near-term application with enough technical background to understand the domain, its applicability, and to consider variations to suit technical and organizational constraints. It highlights new innovative 3D-printing systems, presents a view of 4D printing, and promotes a vision of additive manufacturing and applications toward modern manufacturing engineering practices. With the block diagrams, self-explanatory figures, chapter exercises, and photographs of lab-developed prototypes, along with case studies, this new textbook*

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*will be useful to students studying courses in Mechanical, Production, Design, Mechatronics, and Electrical Engineering. Nanotechnology in Diagnosis, Treatment and Prophylaxis of Infectious Diseases delivers comprehensive coverage of the application of nanotechnology to pressing problems in infectious disease. This text equips readers with cutting-edge knowledge of promising developments and future prospects in nanotechnology, paying special attention to microbes that are now resistant to conventional antibiotics, a concerning problem in modern medicine. Readers will find*

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*a thorough discussion of this new approach to infectious disease treatment, including the reasons nanotechnology presents a promising avenue for the diagnosis, treatment, and prophylaxis of infectious diseases. Provides a comprehensive overview of the use of nanotechnology in the treatment and diagnosis of infectious diseases Covers all common types of infective agents, including bacteria, viruses, fungi, and protozoa, along with their vectors, ticks, mosquitoes, flies, etc. Delivers commentary from an international researcher base, providing insights across differing economic statuses*

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*Includes a foundation of basic nanotechnological concepts to aid in designing new strategies to combat several pathogenic diseases and cancer Illustrates the high antimicrobial potential of nanoparticles, ultimately demonstrating how they are a promising alternative class that can be successfully used in fighting a myriad of infections*

*Fighting Multidrug Resistance with Herbal Extracts, Essential Oils and their Components offers scientists a single source aimed at fighting specific multidrug-resistant (MDR) microorganisms such as bacteria, protozoans,*

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*viruses and fungi using natural products. This essential reference discusses herbal extracts and essential oils used or under investigation to treat MDR infections, as well as those containing antimicrobial activity that could be of potential interest in future studies against MDR microorganisms. The need to combat multidrug-resistant microorganisms is an urgent one and this book provides important coverage of mechanism of action, the advantages and disadvantages of using herbal extracts, essential oils and their components and more to aid researchers in effective antimicrobial drug discovery*

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*Addresses the need to develop safe and effective approaches to coping with resistance to all classes of antimicrobial drugs Provides readers with current evidence-based content aimed at using herbal extracts and essential oils in antimicrobial drug development Includes chapters devoted to the activity of herbal products against herpes, AIDS, tuberculosis, drug-resistant cancer cells and more*

*This book introduce the concept of Java Database Connectivity (JDBC). I felt, there is need to provide java database connectivity knowledge to students and programmer which*



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*will help to develop their applications. The book contents basic topics like database, SQL and java database connectivity in depth. This book has intended for student and developers of Java Database Connectivity-based applications. It describe how to make a bridge between front end and back end using java connectivity with introducing several features. It has also written for Java programmers who would like to understand the JDBC framework in detail along with its architecture.*

*Corporate Tax Planning & Management A.Y  
2020-21 & 2021-22*

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*JDBC A Bridge*

*Separation Processes*

*Emerging Technologies for Sustainable  
Development*

*Nanotechnology in Diagnosis, Treatment and  
Prophylaxis of Infectious Diseases*

*Toxicity and Safety*

The Cloud is an advanced and fast-growing technology in the current era. The computing paradigm has changed drastically. It provided a new insight into the computing world with new characteristics including on-demand, virtualization, scalability and many more. Utility computing, virtualization and service-oriented architecture (SoA) are the key characteristics of Cloud computing. The Cloud provides

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distinct IT services over the web on a pay-as-you-go and on-demand basis. Cloud Computing Technologies for Smart Agriculture and Healthcare covers Cloud management and its framework. It also focuses how the Cloud computing framework can be integrated with applications based on agriculture and healthcare. Features: Contains a systematic overview of the state-of-the-art, basic theories, challenges, implementation, and case studies on Cloud technology Discusses of recent research results and future advancement in virtualization technology Focuses on core theories, architectures, and technologies necessary to develop and understand the computing models and its applications Includes a wide range of examples that uses Cloud technology for increasing farm profitability and sustainable

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production Presents the farming industry with Cloud technology that allows it to aggregate, analyze, and share data across farms and the world Includes Cloud-based electronic health records with privacy and security features Offers suitable IT solutions to the global issues in the domain of agriculture and health care for society This reference book is aimed at undergraduate and post-graduate programs. It will also help research scholars in their research work. This book also benefits like scientists, business innovators, entrepreneurs, professionals, and practitioners.

Microbiology for Surgical Infections: Diagnosis, Prognosis and Treatment explores current trends in etiology and antibiotic resistance of pathogens responsible for devastating and complex surgical infections. Clinicians and researchers report

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the most recent advances in diagnostic approaches to bacterial and non-bacterial surgical infections, including invasive fungal infections. Current guidelines for prophylaxis of community-acquired and nosocomial infections, complications in surgery, and improvement of diagnosis and treatment of these devastating surgical infections are also discussed. The work gives specific attention to intra-abdominal and wound infections, as well as infections in cardiac surgery and neurosurgery. Taken together, these explorations inform the work of specialists in different surgical arenas, as well as those working in microbiology. Microbiology for Surgical Infections provides a resource to those working to improve outcomes in this complicated arena by discussing prospects for future study and identifying

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targets for future research. Provides a multi-dimensional view of myriad topics pertinent to surgical infections, including questions of etiology, pathogenesis, host-microbial interactions, diagnosis, prognosis, treatment and prophylaxis. Delivers cutting-edge commentary from eminent surgeons, microbiologists, and infectious disease specialists, with global contributions from both the developed and developing worlds. Presents comprehensive research informed by the most recent technological and scientific advances in the field. This book presents a detailed account of different enzymes including pectinolytic and amylolytic systems, invertases, cellulases and hemicellulases, pectinases, proteases, laccases, phytases, alpha-glucuronidases, mannanases, lipases produced by different fungi. It also deals with many

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applications, including the transesterification and biodiesel p  
NANOTECHNOLOGY IN MEDICINE Discover thorough  
insights into the toxicology of nanomaterials used in medicine  
In Nanotechnology in Medicine: Toxicity and Safety, an expert  
team of nanotechnologists delivers a robust and up-to-date  
review of current and future applications of nanotechnology in  
medicine with a special focus on neurodegenerative  
diseases, cancer, diagnostics, nano-nutraceuticals,  
dermatology, and gene therapy. The editors offer resources  
that address nanomaterial safety, which tends to be the  
greatest hurdle to obtaining the benefits of nanomedicine in  
healthcare. The book is a one-stop resource for recent and  
comprehensive information on the toxicological and safety  
aspects of nanotechnology used in human health and

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medicine. It provides readers with cutting-edge techniques for delivering therapeutic agents into targeted cellular compartments, cells, tissues, and organs by using nanoparticulate carriers. The book also offers methodological considerations for toxicity, safety, and risk assessment. Nanotechnology in Medicine: Toxicity and Safety also provides readers with: A thorough introduction to the nanotoxicological aspects of nanomedicine, including translational nanomedicine and nanomedicine personalization Comprehensive introductions to nanoparticle toxicity and safety, including selenium nanoparticles and metallic nanoparticles Practical discussions of nanotoxicology and drug delivery, including gene delivery using nanocarriers and the use of nanomaterials for ocular delivery applications In-



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depth examinations of nanotechnology ethics and the regulatory framework of nanotechnology and medicine  
Perfect for researchers, post-doctoral candidates, and specialists in the fields of nanotechnology, nanomaterials, and nanocarriers, Nanotechnology in Medicine: Toxicity and Safety will also prove to be an indispensable part of the libraries of nanoengineering, nanomedicine, and biopharmaceutical professionals and nanobiotechnologists.  
Techniques and Case Studies for Environmental Pollution Materials, Methodologies, and Assessments  
Principles and Practice  
Cloud Computing Technologies for Smart Agriculture and Healthcare  
Essential Oils and Nanotechnology for Treatment of Microbial

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Diseases

Rhizobium Biology and Biotechnology

*This book addresses the various challenges in achieving sustainable groundwater development, management, and planning in semi-arid regions, with a focus on India, and discusses advanced remote sensing and GIS techniques for the estimation and management of groundwater resources. The book is timely as there is a need for a better understanding of the various tools and methods required to efficiently and sustainably meet the growing demand for clean surface and groundwater in developing countries, and how these tools can be combined with other strategies in a multi-disciplinary fashion to achieve this goal in water-scarce regions. To wit, the book combines remote sensing and GIS*

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*techniques, runoff modeling, aquifer mapping, land use and land cover analyses, evapotranspiration estimation, crop coefficients, and water policy approaches. This will be of use to academics, policymakers, social scientists, and professionals involved in the various aspects of sustainable groundwater development, planning, and management.*

*This book introduces the principles and practices in automotive systems, including modern automotive systems that incorporate the latest trends in the automobile industry. The fifteen chapters present new and innovative methods to master the complexities of the vehicle of the future. Topics like vehicle classification, structure and layouts, engines, transmissions, braking, suspension and steering are illustrated with modern concepts, such as battery-electric,*

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*hybrid electric and fuel cell vehicles and vehicle maintenance practices. Each chapter is supported with examples, illustrative figures, multiple-choice questions and review questions. Aimed at senior undergraduate and graduate students in automotive/automobile engineering, mechanical engineering, electronics engineering, this book covers the following: Construction and working details of all modern as well as fundamental automotive systems Complexities of operation and assembly of various parts of automotive systems in a simplified manner Handling of automotive systems and integration of various components for smooth functioning of the vehicle Modern topics such as battery-electric, hybrid electric and fuel cell vehicles Illustrative examples, figures, multiple-choice questions and review*

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*questions at the end of each chapter*

*Antibiotic Resistance: Mechanisms and New Antimicrobial Approaches discusses up-to-date knowledge in mechanisms of antibiotic resistance and all recent advances in fighting microbial resistance such as the applications of nanotechnology, plant products, bacteriophages, marine products, algae, insect-derived products, and other alternative methods that can be applied to fight bacterial infections. Understanding fundamental mechanisms of antibiotic resistance is a key step in the discovery of effective methods to cope with resistance. This book also discusses methods used to fight antibiotic-resistant infection based on a deep understanding of the mechanisms involved in the development of the resistance. Discusses methods used to*

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*fight antibiotic-resistant infection based on a deep understanding of mechanisms involved in the development of the resistance Provides information on modern methods used to fight antibiotic resistance Covers a wide range of alternative methods to fight bacterial resistance, offering the most complete information available Discusses both newly emerging trends and traditionally applied methods to fight antibiotic resistant infections in light of recent scientific developments Offers the most up-to-date information in fighting antibiotic resistance Includes involvement of contributors all across the world, presenting questions of interest to readers of both developed and developing countries*

*In this valuable volume, new and original research on various*

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*topics on chemical engineering and technology is presented on modeling and simulation, material synthesis, wastewater treatment, analytical techniques, and microreactors. The research presented here can be applied to technology in food, paper and pulp, polymers, petrochemicals, surface coatings, oil technology aspects, among other uses. The book is divided into five sections: modeling and simulation environmental applications materials and applications processes and applications analytical methods Topics include: modeling and simulation of chemical processes process integration and intensification separation processes advances in unit operations and processes chemical reaction engineering fuel and energy advanced materials CFD and transport processes wastewater treatment The valuable*

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*research presented here will be of interest to researchers, scientists, industry practitioners, as well as upper-level students.*

*Cloud Computing*

*Principles and Applications*

*Diagnosis, Prognosis and Treatment*

*Environmental Studies (As Per Sant Gadge Baba Amravati University Syllabus)*

*Principles and Paradigms*

*Challenges, Architecture, and Applications*

Contributed articles presented at an International Conference on Separation Processes organized by Institute of Chemical Engineering & Technology,



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Institute of Technology, Banaras Hindu University in 2009.

Borate-based phosphors have attracted much attention, due to their high optical stability, low-cost synthesis via conventional and non-conventional methods and resulting technology to be environmentally friendly. This book discusses the structural and chemical parameters of borates as a phosphor including suitable synthesis methods and proper characterization of materials. Further, it includes applications of borate materials such as photoluminescence, UV application, UVU

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application, photo therapy application and radiological applications. Features: Provides information on borate phosphors and their structure. Aids selection of proper structural and functional borates used in applications based on phosphor technology. Discloses the modification in properties of borate functional group upon mixing or substitution with other metallic functional groups. Discusses biological applications such as photo-thermal heating-based therapy, temperature sensors, imaging, and diagnosis. Includes current trends and innovations, limitations and challenges,

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prospects, and scope in each chapter. This book is aimed at researchers and graduate students in inorganic materials, luminescent/optical materials, materials science/engineering, and physics.

Contents: History; Vedic Aryans; Brahminism or Counter Revolution; Buddha and his Dhamma; Manu Smriti; Philosophy of Hinduism; Caste System; Untouchables and Untouchability; Congress and Untouchability; Congress and Gandhism; Separate Electorates and Communal Representation; Politics; Democracy; Women; Economics; State Socialism; Labour; Religion and

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Ethics; Educate-Agitate-Organise; Revolution; A  
Brief Life Sketch of Babasaheb Dr B R Ambedkar  
Bibliography.

This book provides in-depth reviews of the role of Rhizobium in agriculture and its biotechnological applications. Individual chapters explore topics such as: the occurrence and distribution of Rhizobium; phenotypic and molecular characteristics of Rhizobium; impact of Rhizobium on other microbial communities in the rhizosphere; N<sub>2</sub>-fixation ability of Rhizobium; Rhizobium and biotic stress; Rhizobium-mediated restoration of an

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ecosystem; in silico analysis of the rhizobia pool;  
further biotechnological perspectives of  
Rhizobium.

Nanotoxicology

New Horizons in Biotechnology

Microbial Biodegradation and Bioremediation

Current Trends and Future Prospects

Challenges and Opportunities

Critical Analysis of Soft Skills of Librarians Working

in Institutes of Sant Gadge Baba Amravati

University, Maharashtra

***Considering the overall situation of the***

***current pandemic and pertinent recommendations, this book focuses on the use of augmented reality (AR) applications for preventing COVID-19 outbreaks along with techniques, tools, and platforms to achieve social distancing and sanitization. COVID-19 Public Health Measures: An Augmented Reality Perspective contains theoretical and practical knowledge of AR and remedies on how to cope with the pandemic, including multiple use cases along with a set of recommendations. This book***

***illustrates application building using open-source software with an interactive interface to aid impaired users. The initial part of this book emphasizes the basic knowledge of AR, technology, devices, and rest of the relevant theories. This book is aimed at researchers, students of AR, technical healthcare professionals, and practitioners. Key Features: • Consists of an extensive introduction to the terminologies and components of AR • Provides in-depth knowledge of various tools and techniques***

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***used in AR • Introduces various platforms and software development kits (SDKs) such as Unity Engine, Unreal Engine, and Vuforia • Gives a step-by-step guide for the development of an AR app • Describes how AR can be used specifically by impaired users not only in the situation of current pandemic but also in normal situations thus simplifying day-to-day activities***

***Future Trends in 5G and 6G: Challenges, Architecture, and Applications offers a comprehensive overview of basic***



***communication and networking technologies. It focuses on emerging technologies, such as Software-Defined Network (SDN)-based ad hoc networks, 5G, Machine Learning, and Deep Learning solutions for communication and networking, Cloud Computing, etc. It also includes discussions on practical and innovative applications, including Network Security, Smart Cities, e-health, and Intelligent Systems. The book addresses several key issues in SDN energy-efficient systems, the Internet of Things, Big Data,***

***Cloud Computing and Virtualization, Machine Learning, Deep Learning, Cryptography, and 6G wireless technology and its future. It provides students, researchers, and practicing engineers with an expert guide to the fundamental concepts, challenges, architecture, applications, and state-of-the-art developments in communication and networking.***

***Borate Phosphors***

***Groundwater Resources Development and Planning in the Semi-Arid Region***

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***Nanotechnology Applied To Pharmaceutical  
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