

Gaur And Kaul Solutions

The world has shifted towards sustainable development for the generation of energy and industrially valuable chemicals. Biorefinery plays an important role in the integration of conversion process with high-end equipment facilities for the generation of energy, fuels and chemicals. The first part of the book presents the fundamentals of the biorefinery concept. The second part describes the biorefinery approach for production of several industrially important chemicals from waste biomass and agro residues. These chemicals include industrially important C4, C5 and C6 chemicals, propylene glycol, glycerol byproducts, dyes and inks etc. Each and every chemical has its own industrial value and the book describes the production processes and strategies at the industrial level. The final part of the book describes the various biorefinery approaches and economic analysis for the different types of biofuel production. This book constitutes the refereed proceedings of the Second International Conference on Emerging Technologies in Computer Engineering: Microservices in Big Data Analytics, ICETCE 2019, held in Jaipur, India, in February 2019. The 28 revised full papers along with 1 short paper presented were carefully reviewed and selected from 253 submissions. ICETCE conference aims to showcase advanced technologies, techniques, innovations and equipments in computer engineering. It provides a platform for researchers, scholars, experts, technicians, government officials and industry personnel from all over the world to discuss and share their valuable ideas and experiences.

The environment of our planet is degrading at an alarming rate because of non-sustainable urbanization, industrialization and agriculture. Unsustainable trends in relation to climate change and energy use, threats to public health, poverty and social exclusion, demographic pressure and ageing, management of natural resources, biodiversity loss, land use and transport still persist and new challenges are arising. Since these negative trends bring about a sense of urgency, short term action is required, whilst maintaining a longer term perspective. The main challenge is to gradually change our current unsustainable consumption and production patterns and the nonintegrated approach to policy-making. This book covers the broad area including potential of rhizospheric microorganisms in the sustainable plant development in anthropogenic polluted soils, bioremediation of pesticides from soil and waste water, toxic metals from soil, biological treatment of pulp and paper industry wastewater, sustainable solutions for agro processing waste management, solid waste management on climate change and human health, environmental impact of dyes and its remediation. Various methods for genotoxicity testing of environmental pollutants are also discussed and chapters on molecular detection of resistance and transfer genes in the environmental samples, biofilm formation by the environmental bacteria, biochemical attributes to assess soil ecosystem sustainability, application of rhizobacteria in biotechnology, role of peroxidases as a tool for the decolorization and removal of dyes and potential of biopesticides in sustainable agriculture. It offers a unique treatment of the subject, linking various protection strategies for sustainable development, describing the inter-relationships between the laboratory and field ecotoxicologist, the biotechnology consultant, environmental engineers and different international environmental regulatory and protection agencies.

Acute Coronary Syndrome (ACS) is a growing global menace with patients increasing in developing countries where tobacco and food play a major role. Its treatment guidelines and research results have proliferated in academia, but practical applications lag behind that research. This book addresses this void. Guidelines for treatment of ACS present in-depth reading for practicing cardiologists, thus preventing clinical application. The book aims to appraise readers of real-world situations and suggestions to help them acquire up-to-date knowledge on ACS and its effective diagnosis, prognosis and management. Key Features
Covers recent advances in ACS management and pharmacotherapy
Discusses the guidelines

for treatment of ACS for the professional cardiologist to apply to clinical practice Explores the topics with the help of case scenarios Follows a concise, yet comprehensive approach Features a chapter on 'When to Transfer,' which discusses how to spot unstable patients or those heading towards shock

Monthly, with annual author and subject indexes. Abstracts from about 2750 primary journals dealing with the subject of insects. Arranged in classified order. Entries include titles given or translated into English, authors, addresses offirst authors, and abstracts; all insects cited in the abstracts are identified by scientific family names. Each monthly issue has Index to classes and orders, Author index.

Aditya runs a gaming company that is struggling to break even. A banker slips off a highrise building, plunging to her death. The finance minister has made some promises that he is finding hard to keep. The LTTE has unleashed terror in America that sends the FBI on a wild goose chase, bringing them to Mumbai. Enter Varun, parttime drug dealer and fulltime genius. He turns around the gaming company before disaster strikes. Meanwhile, the investigators plunge headlong into the shady world of bitcoins and the Dark Net, websites that only exist for illegal transactions—drugs, sex and money. God Is a Gamer culminates in a stunning climax where money means nothing, assassination is taught by the ancient Greeks, and nothing is as it seems.

In this book, Jeffrey Benner traces the history of the Indian foreign policy bureaucracy from the British period to the present, focusing on the bureaucracy's role in shaping policy. Because the bureaucracy has become an active agent in the policy process, its implementation of policy has often differed significantly from the original policy formulated by top leadership. The book includes a description of the foreign service cadre and a systematic breakdown of the functional and administrative structure of the Ministry of External Affairs, as well as the larger bureaucracy.

This book gathers selected papers presented at the 2nd International Conference on Computing, Communications and Data Engineering, held at Sri Padmavati Mahila Visvavidyalayam, Tirupati, India from 1 to 2 Feb 2019. Chiefly discussing major issues and challenges in data engineering systems and computer communications, the topics covered include wireless systems and IoT, machine learning, optimization, control, statistics, and social computing.

Now in its seventh edition, Basic Engineering Mathematics is an established textbook that has helped thousands of students to succeed in their exams. Mathematical theories are explained in a straightforward manner, being supported by practical engineering examples and applications in order to ensure that readers can relate theory to practice. The extensive and thorough topic coverage makes this an ideal text for introductory level engineering courses. This title is supported by a companion website with resources for both students and lecturers, including lists of essential formulae, multiple choice tests, and full solutions for all 1,600 further questions.

The Internet of Things offers massive societal and economic opportunities while at the same time significant challenges, not least the delivery and management of the technical infrastructure underpinning it, the deluge of data generated from it, ensuring privacy and security, and capturing value from it. This Open Access Pivot explores these challenges, presenting the state of the art and future directions for research but also frameworks for making sense of this complex area. This book provides a variety of perspectives on how technology innovations such as fog, edge and dew computing, 5G networks, and distributed intelligence are making us rethink conventional cloud computing to support the Internet of Things. Much of this book focuses on technical aspects of the Internet of Things, however,

clear methodologies for mapping the business value of the Internet of Things are still missing. We provide a value mapping framework for the Internet of Things to address this gap. While there is much hype about the Internet of Things, we have yet to reach the tipping point. As such, this book provides a timely entrée for higher education educators, researchers and students, industry and policy makers on the technologies that promise to reshape how society interacts and operates. Theo Lynn is Full Professor of Digital Business at DCU Business School, Ireland and Director of the Irish Institute of Digital Business. John G. Mooney is Associate Professor of Information Systems and Technology Management at the Pepperdine Graziadio Business School, United States. Brian Lee is Director of the Software Research Institute at Athlone Institute of Technology. Patricia Takako Endo is a Postdoctoral Research Fellow at the Irish Institute of Digital Business, Dublin City University, Ireland, and a Professor at Universidade de Pernambuco, Brazil.

This book provides a complete course for first-year engineering mathematics. Whichever field of engineering you are studying, you will be most likely to require knowledge of the mathematics presented in this textbook. Taking a thorough approach, the authors put the concepts into an engineering context, so you can understand the relevance of mathematical techniques presented and gain a fuller appreciation of how to draw upon them throughout your studies.

This book constitutes the refereed proceedings of the First International Conference on Computer Science, Engineering and Information Technology, CCSEIT 2011, held in Tirunelveli, India, in September 2011. The 73 revised full papers were carefully reviewed and selected from more than 400 initial submissions. The papers feature significant contributions to all major fields of the Computer Science and Information Technology in theoretical and practical aspects.

Ever wondered why Physics is so dry and boring? Why do you always have to deal with monkeys hanging on ropes or people throwing stones from a tower in your Physics books? What if we have Percy Jackson and his shield or Squirtles and Poseidon working together as examples to help learn concepts of Physics? This exciting fanfiction takes a completely different tack at explaining Physics. The book brings to life your favorite fictional characters along with their interesting stories to demonstrate Physics through them. If you ever wanted to learn Physics in the most fun and engaging way and have been a diehard fan of the likes of Batman, Gandalf, Eragon, this book more than successfully fulfils that desire.

Now in its eighth edition, Higher Engineering Mathematics has helped thousands of students succeed in their exams. Theory is kept to a minimum, with the emphasis firmly placed on problem-solving skills, making this a thoroughly practical introduction to the advanced engineering mathematics that students need to master. The extensive and thorough topic coverage makes this an ideal text for upper-level vocational courses and for undergraduate degree courses. It is also supported by a fully updated companion website with resources for both students and lecturers. It has full solutions to all 2,000 further questions contained in the 277 practice exercises.

An Integration of Phycoremediation Processes in Wastewater Treatment reviews the potential of microalgae to treat wastewater containing highly recalcitrant compounds whose degradation is not achieved by the conventional existing treatments. In addition, the book describes how the microalgae collected after wastewater treatment can be used for obtaining added-value products, hence closing the loop and contributing to a circular economy. Finally, the techno-economical aspects of this green technology are addressed, along with the design and development of photobioreactors, genetic aspects, metagenomics and metabolomics. Deals with emerging aspects of algal research, with a special reference to phycoremediation. Covers diversity, mutations, genomics, metagenomics, eco-physiology, culturing, microalgae for food and feed, biofuel production, harvesting of microalgae, separation and purification of

biochemicals Describes the techno-economical assessment, microalgal biotechnology and algal-bacterial systems for wastewater treatment Presents complex issues associated with cutting-edge biotechnological tools and techniques like next-generation sequencing methods, metabolomics and bioreactor design and development

The book insights into the various issues, aspects, potentials, prospects and challenges of tourism and hospitality sector in India in the age of technological transformation and innovations. It highlights the various cutting edge emerging concepts, practices, policies, marketing strategies of tourism, hospitality and aviation industry in India. The book explores new innovations and key practices in the Indian tourism and hospitality industry. It creates a knowledge base for the students, academicians, researchers and industry practitioners by analyzing the real research gaps and latest developments, trends, and research in the Indian tourism sector. The book also discusses recent initiatives taken by the Government of India to boost this particular sector. The book covers a very important part of syllabus of higher education programs in tourism like MBA (Travel Tourism), MTTM, MTM (IGNOU), MTA, BTS, BTA.

This book explores the changing nature of international law and its ability to respond to the contemporary issues related to international environment, trade and information technology. The evolution of international law has reached a stage where we are witnessing diminishing power of the state and its capacity to deal with the economic matters challenging the existing notions of territory and sovereignty. Recent trends in international law and international relations show that states no longer have exclusive control over the decision-making process at the global level. Keeping this in mind, the book brings together the perspectives of various international and national scholars. The book considers diverse issues such as, sustainable development, climate change, global warming, Rio+20, technology transfer, agro-biodiversity and genetic resource, authority for protection of environment, human right to water, globalization, human rights, sui generis options in IP laws, impact of liberalization on higher education, regulation of international trade, intellectual property rights, collective administration of copyright, broadcast reproduction rights, implementation of copyright law, communication rights under copyright law, arbitration for IP disputes, doctrine of exhaustion of rights, trans-border reputation of trademark, information as an asset, cyber obscenity and pornography, e-governance, taxation of e-commerce, computer crime, information technology, domain names, research excellence in legal education, ideological perspective on legal education, challenges for law teachers, and clinical legal education. The topics, though diverse, are closely interrelated, with the common concern throughout being that the global environment, international trade, information technology and legal education need appropriate national normative and institutional responses as well as the global cooperation of members of the international community. Presenting reflections of a number of Asian, African and European scholars on these varied facets, the book is of great value to scholars, practitioners, teachers and students associated with contemporary international law.

This book constitutes the refereed proceedings of the 4th International Conference on Recent Developments in Science, Engineering and Technology,

REDSSET 2017, held in Gurgaon, India, in October 2017. The 66 revised full papers presented were carefully reviewed and selected from 329 submissions. The papers are organized in topical sections on big data analysis, data centric programming, next generation computing, social and web analytics, security in data science analytics.

Engineering Physics (Annual Pattern) Acute Coronary Syndromes CRC Press
Regenerative medicine is broadly defined as the repair or replacement of damaged cells, tissues and organs. It is a multidisciplinary effort in which technologies derive from the fields of cell, developmental and molecular biology; chemical and material sciences (i.e. nanotechnology); engineering; surgery; transplantation; immunology; molecular genetics; physiology; and pharmacology. As regenerative medicine technologies continue to evolve and expand across the boundaries of numerous scientific disciplines, they remain at the forefront of the translational research frontier with the potential to radically alter the treatment of a wide variety of disease and dysfunction. This book will draw attention to the critical role that pharmacological sciences will undeniably play in the advancement of these treatments. This book is invaluable for advanced students, postdoctoral fellows, researchers new to the field of regenerative medicine/tissue engineering, and experienced investigators looking for new research avenues. The first state-of-the-art book in this rapidly evolving field of research.

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