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Hemicellulose Biorefinery: A Sustainable Solution for Value Addition to Bio-Based Products and Bioenergy Michel Brienzo, 2022-01-03 This edited book provides knowledge about hemicelluloses biorefinery approaching production life cycle circular economy and valorization by obtaining value added bioproducts and bioenergy A special focus is dedicated to chemical and biochemical compounds produced from the hemicelluloses derivatives platform Hemicelluloses are polysaccharides located into plant cell wall with diverse chemical structures and properties It is the second most spread organic polymer on nature and found in vast lignocellulosic materials from agro and industrial wastes therefore hemicelluloses are considered as abundant and renewable raw material feedstock Biorefinery concept contributes to hemicelluloses production associated with biomass industrial processes Hemicelluloses are alternative sources of sugars for renewable fuels and as platform for chemicals production This book reviews chemical processes for sugar production and degradation obtaining of intermediate and final products and challenges for pentose fermentation Aspects of hemicelluloses chain chemical and enzymatic modifications are presented with focus on physicochemical properties improvement for bioplastic and biomaterial approaches Hemicelluloses are presented as sources for advanced materials in biomedical and pharmaceutical uses and as hydrogel for chemical and medicine deliveries An interdisciplinary approach is needed to cover all the processes involving hemicelluloses its conversion into final and intermediate value added compounds and bioenergy production Covering this context this book is of interest to teachers students researchers and scientists dedicated to biomass valorization This book is a knowledge source of basic aspects to advanced processing and application for graduate students particularly Besides the book serves as additional reading material for undergraduate students from different courses with a deep interest in biomass and waste conversion valorization and chemical products from hemicelluloses Green Biorefinery Solutions Sanjiv K. Soni, Raman Soni, 2025-07-26 This book delves into the innovative concept of biorefineries as a sustainable approach for managing biodegradable waste and producing valuable resources It highlights the pressing need to address environmental challenges such as waste accumulation and resource depletion while meeting the increasing demand for renewable energy and bio based products The book introduces the concept of biorefineries which are analogous to conventional oil refineries but focus on converting biomass and biodegradable waste into a range of high value products These products include biofuels biochemicals bioplastics biofertilizers and other materials that can replace fossil derived equivalents The author explores various technological pathways and processes involved in efficiently transforming different types of biodegradable waste such as agricultural residues food waste and organic byproducts into usable resources Readers are guided through the principles of biorefinery design integration of various unit operations and the optimization of conversion processes to achieve maximum resource utilization and minimal environmental impact The book emphasizes the importance of circular economy concepts where waste is considered a valuable input rather than a burden It also discusses

the economic social and environmental benefits of adopting biorefinery solutions in different sectors from agriculture to industry The book is a valuable resource for researchers policymakers industry professionals and students interested in exploring innovative approaches to waste management resource recovery and the transition towards a more sustainable and circular bioeconomy By highlighting the transformative potential of biorefineries the book contributes to the ongoing dialogue on creating a more environmentally conscious and resource efficient future

Rising Threats in Expert Applications and Solutions Vijay Singh Rathore, Nilanjan Dey, Vincenzo Piuri, Rosalina Babo, Zdzislaw Polkowski, João Manuel R. S. Tavares, 2020-10-01 This book presents high quality peer reviewed papers from the FICR International Conference on Rising Threats in Expert Applications and Solutions 2020 held at IIS University Jaipur Rajasthan India on January 17 19 2020 Featuring innovative ideas from researchers academics industry professionals and students the book covers a variety of topics including expert applications and artificial intelligence machine learning advanced web technologies like IoT big data and cloud computing in expert applications information and cybersecurity threats and solutions multimedia applications in forensics security and intelligence advances in app development management practices for expert applications and social and ethical aspects of expert applications in applied sciences

Security Management for Industrial Safety Critical Applications Raj Kamal Kaur, Lalit Kumar Singh, Pooja Singh, Ajit K. Verma, 2024-08-17 The book introduces dependability security metric ideas gives a general overview of the security analysis of Safety Critical Systems SCSs explains why the study is necessary and defines key terms relevant to this research It makes an effort to emphasize the significance of security in comparison to other dependability indicators and illustrates the key drivers of this research s purpose The mathematical foundation of the security analysis process is briefly illustrated and key mathematical terminology and concepts are presented that are crucial for the security evaluation of critical systems This book s objective is to provide a thorough understanding of the security analysis process It will be a research focused book designed for undergraduate graduate and doctoral courses in software and cyber security The fundamentals of reliability security metrics and mathematical foundation have been covered in this book Each technique s actual applications along with benefits and drawbacks are also shown Applying each technique to the various case studies serves as a demonstration of how it works By using the many case studies of safety critical systems the students can also learn different analysis approaches and how to model them Students will be able to use these tools in particular on a case study of their choice to analyze system security The book includes a comparison of various strategies and appropriate recommendations for further reading on these subjects Moreover this book s target audience includes software professionals who are interested in security analysis

Innovative Applications in Computing E. Balagurusamy, B. Sushila, 1993 Selection of papers presented at the Third Indian Computing Congress

Recent Advances in Material, Manufacturing, and Machine Learning Bjorn Schuller, Rajeev Gupta, Rakesh Mote, Abhishek Sharma, J.P. Giri, R.B. Chadge, 2024-06-17 The main aim of the 2nd international conference on

recent advances in materials manufacturing and machine learning processes 2023 RAMMML 23 is to bring together all interested academic researchers scientists engineers and technocrats and provide a platform for continuous improvement of manufacturing machine learning design and materials engineering research RAMMML 2023 received an overwhelming response with more than 530 full paper submissions After due and careful scrutiny about 120 of them have been selected for presentation The papers submitted have been reviewed by experts from renowned institutions and subsequently the authors have revised the papers duly incorporating the suggestions of the reviewers This has led to significant improvement in the quality of the contributions Taylor Francis publications CRC Press have agreed to publish the selected proceedings of the conference in their book series of Advances in Mechanical Engineering and Interdisciplinary Sciences This enables fast dissemination of the papers worldwide and increases the scope of visibility for the research contributions of the authors

Powering Future: Clean Energy Solutions for a Sustainable Planet Akhilesh Kumar Yadav, 2025-06-23 This edited volume explores the world of clean energy diving into technological innovations and advancements This book discusses the complexities of our energy landscape providing comprehensive insights into renewable technologies and their environmental impacts The need for renewable energy stems from various environmental economic and social concerns The renewable energy sources such as solar wind hydro and geothermal power offer sustainable alternatives to finite fossil fuels They reduce greenhouse gas emissions mitigate climate change enhance energy security by diversifying the energy mix and diminish dependence on imported fuels thus decreasing geopolitical risks Transitioning to clean energy production technologies also reduces air and water pollution which is crucial for a sustainable future ensuring environmental protection economic prosperity and social equity for present and future generations Some of the key topics covered are solar energy utilization efficiency and life cycle analysis of solar panels nature based energy generation sustainability through biomass and biogas nuclear energy geothermal energy among others This book is an engaging read for students academics researchers policymakers and climate enthusiasts offering valuable information to assist us in making informed decisions for a cleaner greener future

... Annual Report India. Union Public Service Commission, 2010 **Computer Systems and Applications** E. Balagurusamy, B. Sushila, 1990 **Bioethanol** Ayerim Y. Hernández Almanza, Nagamani Balagurusamy, Héctor Ruiz Leza, Cristóbal N. Aguilar, 2022-07-07 This new book Bioethanol Biochemistry and Biotechnological Advances presents some insightful perspectives and important advances in the bioethanol industry The volume goes into detail on the biochemical and physiological parameters carried out by the main bioethanol producing microorganisms as well as the discusses the potential applications that bioproducts can have and the advantages they generate The chapter authors discuss a variety of issues including the physiology of ethanol production by yeasts by *Zymomonas mobilis* and by *Clostridium thermocellum* Other sources of biofuel such as sweet sorghum Agave americana L leaves waste and fungi are included as well Chapters also discuss the genetic regulation and genetic engineering of principal

microorganisms and then go on to address ways to increase ethanol tolerance in industrially important ethanol fermenting organisms methods for developing sustainable fermentable substrates and new strategies for ethanol purification Chapters explore the design and engineering requirements for bioreactors bioelectrosynthesis of ethanol via bioelectrochemical systems and more The book will be a valuable resource for faculty and students in this area as well as for scientists researchers and managers in the biofuel industry in the area of biofuel production fermentation process environmental engineering and all other related scientific areas

Advances in Food Bioproducts and Bioprocessing Technologies Monica Lizeth Chavez-Gonzalez,Nagamani Balagurusamy,Christobal N. Aguilar,2019-10-16 The book explores and exploits the synergy and boundary between biotechnology bioprocessing and food engineering Divided into three parts Advances in Food Bioproducts and Bioprocessing Technologies includes contributions that deal with new developments in procedures bioproducts and bioprocesses that can be given quantitative expression Its 40 chapters will describe how research results can be used in engineering design include procedures to produce food additives and ingredients and discuss accounts of experimental or theoretical research and recent advances in food bioproducts and bioprocessing technologies

Biorefinery and Industry 4.0: Empowering Sustainability Anuj Kumar Chandel,2024-04-01 This book provides a comprehensive overview of the latest advances in the production of low carbon chemicals and biofuels from renewable feedstock including pilot demo and commercial scale technologies It highlights the role of Industry 4 0 in improving the efficiency and affordability of biorefineries ultimately leading to the production of bio based molecules and energy with low carbon and water footprints Drawing on the expertise of established researchers academics and engineers the book presents a range of informative chapters on the subject It explores the key elements of Industry 4 0 such as interconnectivity and smart process automation and shows how these can be harnessed to revolutionize industrial processes and offer finished products in a cost effective manner With its emphasis on sustainability and cutting edge technology this book is an essential resource for anyone interested in the future of low carbon chemistry and bioenergy production

Artificial Intelligence for Data-Driven Medical Diagnosis Deepak Gupta,Utku Kose,Bao Le Nguyen,Siddhartha Bhattacharyya,2021-02-08 This book collects research works of data driven medical diagnosis done via Artificial Intelligence based solutions such as Machine Learning Deep Learning and Intelligent Optimization Physical devices powered with Artificial Intelligence are gaining importance in diagnosis and healthcare Medical data from different sources can also be analyzed via Artificial Intelligence techniques for more effective results

Introduction to Programming with C Mr. Rohit Manglik,2024-03-13 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Biogas Production Nagamani Balagurusamy,Anuj Kumar Chandel,2021-01-11 This book focuses on biogas production by anaerobic digestion which is the

most popular bioenergy technology of today Using anaerobic digestion for the production of biogas is a sustainable approach that simultaneously also allows the treatment of organic waste The energy contained in the substrate is released in the form of biogas which can be employed as a renewable fuel in diverse industrial sectors Although biogas generation is considered an established process it continues to evolve e g by incorporating modifications and improvements to increase its efficiency and its downstream applications The chapters of this book review the progress made related to feedstock system configuration and operational conditions It also addresses microbial pathways utilized as well as storage transportation and usage of biogas This book is an up to date resource for scientists and students working on improving biogas production

The Economics of Health Reconsidered, Fourth Edition Thomas Rice, PhD, Lynn Unruh, PhD, RN, 2015-06-01
Instructor Resources PowerPoint slides important chapter concepts discussion questions with answers additional readings and a transition guide to the new edition Now in its fourth edition The Economics of Health Reconsidered presents an argument that still holds true despite assertions to the contrary neither economic theory nor evidence shows that reliance on market forces leads to superior outcomes in healthcare systems Government plays a crucial role in making the healthcare sector not only more equitable but also more efficient This book reconsiders the field of health economics as it is traditionally taught and practiced It critically examines economic theory as applied to the health sector and questions the prevailing belief that a competitive healthcare market place results in the best outcomes Fully revised and updated this new edition incorporates information on the impact of the implementation of the Affordable Care Act as well as A new chapter on healthcare expenditures which examines healthcare spending in the United States and in other high income countries including the magnitude growth and causes of high expenditures and the different policies that have been used or proposed to help control them A new chapter that describes the various types of economic evaluation currently used in healthcare discusses the issues that arise with the use of economic evaluations and provides information on how to conduct an economic evaluation New and updated data throughout chapters and exhibits This book serves as an ideal stand alone text for health economics and health policy courses and as a general reference for issues in health economics

Conjugated Polymers And Oligomers: Structural And Soft Matter Aspects Matti Knaapila, 2017-12-12 This book identifies modern topics and current trends of structural and soft matter aspects of conjugated polymers and oligomers Each chapter recognizes an active research line where structural perspective dominates research and therefore the book covers fundamental aspects of persistent conjugated polymer backbone water soluble conjugated polyelectrolytes and surfactants conjugated molecules and biomolecules and DNA and the advanced use of synchrotron radiation and electron microscopy to find out structural details in conjugated molecule films and devices as well as under ambient and extreme conditions

Innovations in the Global Biogas industry Tonderayi S Matambo, Riann Christian, 2024-11-28 Innovations in the Global Biogas Industry Applications of Green Principles critically reviews the whole biogas supply chain from substrates to upgraded biogas The book evaluates the

application of green principles at each stage of biogas production and combines this with case studies and a review of the latest technological advances to produce a comprehensive assessment of the current state of the biogas industry The first three sections of the book guide the reader through the whole supply chain of biogas production from feedstock and waste management to process design plant design operation optimization and end products The sustainability of biogas industry operations is then addressed in depth through a lifecycle assessment alongside the techno economics and safety considerations Each section considers small medium and large scale biogas plant related developments and how green principles are applied at each scale Finally the critical element of biogas industry stakeholders is explored which discusses financing mechanisms policies and regulations global markets and governance issues relating to the biogas sector Presents recent innovations in the biogas industry with an emphasis on the sustainability of anaerobic digestion applications Analyzes anaerobic digestion from various angles from feedstock management to the integration of green and sustainability principles in biogas applications Assesses the whole supply chain of biogas production including plant design and operation substrate to product issues as well as techno economics and safety considerations Includes small medium and large scale biogas plant related developments Addresses the topic of stakeholder issues in the biogas industry

Nanopores Samir M. Iqbal, Rashid Bashir, 2011-07-12 Nanopores are nanometer scale holes formed naturally by proteins or cells and can be used for a variety of applications including sequencing DNA and detecting anthrax They can be integrated into artificially constructed encapsulated cells of silicon wafers while allowing small molecules like oxygen glucose and insulin to pass while keeping out large system molecules Nanopores Sensing and Fundamental Biological Interactions examines the emerging research directions surrounding nanopores such as genome sequencing and early disease detection using biomarker identification Covering the applications of nanopores in genetics proteomics drug discovery early disease detection and detection of emerging environmental threats it is a must have book for biomedical engineers and research scientists

Dictionary of Concrete Technology Natt Makul, 2025-06-04 The Dictionary of Concrete Technology is a thorough resource encapsulating the progressions in concrete technology which connects traditional methodologies with contemporary innovations With over 1 000 meticulously selected terminologies it provides clear definitions context and cross references catering to professionals students and researchers This dictionary addresses the necessity for an updated lexicon to keep pace with the swift advancements in materials science and civil engineering Compiled through years of collaboration with scholars engineers and industry specialists it ensures precision and relevance Organized alphabetically with detailed elucidations the dictionary is straightforward to navigate supported by an extensive index and references for further exploration Focusing on both current methodologies and emerging trends such as sustainability and digital construction it offers insights into the future of the discipline Designed as an essential instrument it continues evolving with updates supporting its users quest for knowledge and excellence

The Top Books of the Year Balagurusamy Solution The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have enthralled audiences this year. Balagurusamy Solution : Colleen Hoover "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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