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Methanol: Science and Engineering provides a comprehensive review of the chemistry, properties, and current and potential uses and applications of methanol. Divided into four parts, the book begins with a detailed account of current production methods and their economics. The second part deals with the applications of methanol, providing useful insights into future applications. Modeling of the various reactor systems is covered in the next section, with final discussions in the book focusing on the economic and environmental impact of this chemical. Users will find this to be a must-have resource for all researchers and engineers studying alternative energy sources. Provides the latest developments on methanol research Reviews methanol production methods and their economics Outlines the use of methanol as an alternative green transportation fuel Includes new technologies and many new applications of methanol

The 2017 Fifth International Conference on Management and Technology in Knowledge, Service, Tourism & Hospitality (SERVE 2017) was held on 21-22 October 2017 and on 30 November 2017, in Bali, Indonesia and at the Financial University under the Government of the Russian Federation, Moscow, Russia. The theme of the conference was "Financial and Economic Tools Used in the World Hospitality Industry". Conference contributions dealt with various interdisciplinary research topics, particularly in the fields of social sciences, economics,

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business, management, education, and finance. Through this conference proceedings volume, we propose to launch a renewed discussion of how financial and economic tools can be used in the world hospitality, service, and tourism industries. The purpose of this volume is to develop new theoretical and empirical knowledge that explores the possibilities of developing tourism, hospitality, service industries in sharing economy. These proceedings should be of interest to academics and professionals in the wider field of social sciences, including disciplines such as education, psychology, tourism and knowledge management.

Power to Fuel: How to Speed Up a Hydrogen Economy highlights how the surplus of electricity from renewable sources can be usefully accumulated thanks to hydrogen overcoming the obstacles that can prevent the final use of hydrogen on a large scale. The book includes an introduction and sections on the production of hydrogen, conversion of hydrogen into synthetic fuel, the power-to-fuel concept, and renewable energy source descriptions. The second and third levels are structured identically with a standalone approach that covers established and commercial pathways, emerging pathways, and cost analysis sections within each subject specific chapter, making the content easily referenced and applied. Readers will find details on the state-of-the-art and emerging technologies of various power to fuels options suitable for different final uses of the stored energy, as well as figures and diagrams that illustrate and compare the different processes. The book contains examples of existing plants and pilot projects that will be useful for

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academics dealing with renewable energies and energy storage. Discusses possible applications of synthetic fuels, describing existing plants for fuel production
Contains opinions on opportunities offered by the power to fuel concept and by single technologies Presents power to fuel techno-economic models and calculations down to system level

Qatar's sizable oil and natural gas reserves have underpinned its rapid economic growth over the past two decades. Home to the world's largest non-associated gas field, the country is the world's fourth-largest producer of dry natural gas and the largest producer of liquefied natural gas, with hydrocarbons revenues forming the bulk of national income as a result. Although the drop in global energy prices has impacted export revenues, rigorous economic diversification drives in recent years have paid dividends, and in 2015 non-hydrocarbons growth reached 7.7%, compared to a 0.1% contraction for hydrocarbons growth during the same period. The country's financial sector has continued to evolve; Islamic banking in particular has witnessed significant progress. Meanwhile, as the country gears up to host several important sporting events in the coming years, most notably the 2022 FIFA World Cup, numerous big-ticket infrastructure builds continue to expand the construction sector.

Wood composites have shown very good performance, and substantial service lives when correctly specified for the exposure risks present. Selection of an appropriate product for the job should be accompanied by decisions about the appropriate protection, whether this is by

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design, by preservative treatment or by wood modification techniques. This Special Issue, *Advances in Wood Composites* presents recent progress in enhancing and refining the performance and properties of wood composites by chemical and thermal modification and the application of smart nanomaterials, which have made them a particular area of interest for researchers. In addition, it reviews some important aspects in the field of wood composites, with particular focus on their materials, applications, and engineering and scientific advances, including solutions inspired biomimetically by the structure of wood and wood composites. This Special Issue, with a collection of 13 original contributions, provides selected examples of recent *Advances in Wood Composites*

ICSSCET 2015 will be the most comprehensive conference focused on the various aspects of advances in Systems, Science, Management, Medical Sciences, Communication, Engineering, Technology, Interdisciplinary Research Theory and Technology. This Conference provides a chance for academic and industry professionals to discuss recent progress in the area of Interdisciplinary Research Theory and Technology. Furthermore, we expect that the conference and its publications will be a trigger for further related research and technology improvements in this important subject. The goal of this conference is to bring together the researchers from academia and industry as well as practitioners to share ideas, problems and solutions relating to the multifaceted aspects of Interdisciplinary Research Theory and Technology.

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The Handbook of Composites From Renewable Materials comprises a set of 8 individual volumes that brings an interdisciplinary perspective to accomplish a more detailed understanding of the interplay between the synthesis, structure, characterization, processing, applications and performance of these advanced materials. The handbook covers a multitude of natural polymers/ reinforcement/ fillers and biodegradable materials. Together, the 8 volumes total at least 5000 pages and offers a unique publication. Volume 1 is solely focused on the Structure and Chemistry of renewable materials. Some of the important topics include but not limited to: carbon fibers from sustainable resources; polylactic acid composites and composite foams based on natural fibres; composites materials from other than cellulosic resources; microcrystalline cellulose and related polymer composites; tannin-based foam; renewable feedstock vanillin derived polymer and composites; silk biocomposites; bio-derived adhesives and matrix polymers; biomass based formaldehyde-free bio-resin ; isolation and characterization of water soluble polysaccharide; bio-based fillers; keratin based materials in biotechnology; structure of proteins adsorbed onto bioactive glasses for sustainable composite; effect of filler properties on the antioxidant response of starch composites; composite of chitosan and its derivate; magnetic biochar from discarded agricultural biomass; biodegradable polymers for protein and peptide conjugation; polyurethanes and polyurethane composites from bio-based / recycled components.

Food Safety and Preservation: Modern Biological

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Approaches to Improving Consumer Health explores the most recent and investigated hot topics in food safety, microbial contamination, food-borne diseases and advanced preservation methods. It brings together the significant, evidence-based scientific progress of various approaches to improve the safety and quality of foods, also offering solutions to help address food industry challenges. Recent studies and technological advancements in biological control are presented to control foodborne pathogens. In addition, analytical methods for reducing potential biological hazards make this book essential to researchers, scientists, technologists and grad students. Covers all aspects of food contamination, from food degradation, to food-borne diseases Examines validated, biological control approaches to reduce microbial and chemical contamination Includes detailed discussions of risk and safety assessments in food preservation

The “greening” of industry processes, i.e. making them more sustainable, is a popular and often lucrative trend which has emerged over recent years. The 3rd volume of Green Chemical Processing considers sustainable chemistry in the context of corporate interests. The American Chemical Society’s 12 Principles of Green Chemistry are woven throughout this text as well as the series to which this book belongs.

Wood composites as part of wood engineering materials has been reaching a constant developing trend, being used on a wide range of applications and becoming worldwide as a very promising alternate material face to traditional building materials such as concrete, metal and

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plastics. In this part of the series are treated aspects among which advances functionalities in laminates, the activation of natural fibres, the natural matrix, and others industrials manufacturing research advances for wood material as composite.

The construction industry is bombarded with ever-changing building materials—components of which are more and more difficult, if not impossible, to identify.

Building material emissions have been implicated as a major source of indoor air pollution, and toxic gases, often unidentified, are generated in building fires.

Building Materials: Product Emission and Combustion Health Hazards undertakes the task of identifying building materials emission and combustion health hazards. This practical guide introduces the complex world of polymers commonly used in building materials along with plasticizers and additives that are not regulated by OSHA. It also explores the topic of building materials as they relate to function and their emissions/combustion products along with thermal decomposition and combustion products as they relate to fire first responders. Engaging environmental professionals, construction management firms, architects, first respondents, and students, this valuable reference delivers a comprehensive spectrum of knowledge needed to face the challenges of managing building materials in the twenty-first century. Awareness is the first line of defense!

In The Future of Fallout, and Other Episodes in Radioactive World-Making Joseph Masco examines the strange American intimacy with and commitment to

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existential danger. Tracking the simultaneous production of nuclear emergency and climate disruption since 1945, he focuses on the psychosocial accommodations as well as the technological revolutions that have produced these linked planetary-scale disasters. Masco assesses the memory practices, visual culture, concepts of danger, and toxic practices that, in combination, have generated a U.S. national security culture that promises ever more safety and comfort in everyday life but does so only by generating and deferring a vast range of violences into the collective future. Interrogating how this existential lag (i.e., the material and conceptual fallout of the twentieth century in the form of nuclear weapons and petrochemical capitalism) informs life in the twenty-first century, Masco identifies key moments when other futures were still possible and seeks to activate an alternative, postnational security political imaginary in support of collective life today.

This book addresses the application of nanotechnology to cosmetics. Edited by three respected experts in the field, the book begins with a general overview of the science behind cosmetics and skin care today, and of the status quo of nanotechnology in cosmetics.

Subsequent chapters provide detailed information on the different nanoparticles currently used in cosmetics; the production and characterization of nanoparticles and nanocosmetics; and regulatory, safety and commercialization aspects. Given its scope, the book offers an indispensable guide for scientists in academia and industry, technicians and students, as well as a useful resource for decision-makers in the field and

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consumer organizations. Chapter 6 of this book is available open access under a CC BY 4.0 licence at link.springer.com.

Despite troubled trade negotiations, global trade—and trade policy—will thrive in the twenty-first century, but with a bow to the past. Is the multilateral trading order of the twentieth century a historical artifact? Was the creation of the World Trade Organization in 1995 the high point of multilateral cooperation on trade? This new volume, edited by Bernard M. Hoekman and Ernesto Zedillo, assesses the relevance of the WTO in the context of the rise of China and the United States' turn toward unilateral protectionism. The contributors adopt a historical perspective to discuss changes in global trade policy trends, adducing lessons from the past to help understand current trade tensions. Topics include responses to U.S. protectionism under the Trump administration, the policy dimensions of trade in services and the rise of the digital economy, how to strengthen the WTO to better negotiate new rules of the game and adjudicate disputes, managing China's integration into the global trade system, and the implications of global value chains for economic development policies. By reflecting on past episodes of protectionism and how they were resolved, *Trade in the 21st Century* provides both context and guidance on how trade challenges can be addressed in the coming decades.

Sustainability in Denim provides the latest information on sustainable fabrics and practices. From cotton farming, to manufacture and end of life disposal, denim has extensive effects on the environment, inclusive of water

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consumption and contamination, destruction of large-scale ecosystems and transportation pollution.

Additionally, recent developments in the manufacture of denim, such as the use of textiles, including elastane and polyester, have led to limitations in the high end recycling of denim. This book includes an introduction covering the history, manufacture and lifecycle of denim. It deals with the sustainability aspects of denim by addressing three important pillars of sustainability, the environmental, social and economic aspects, that when combined, present a unique approach in comparison to other books on the topic. The book primarily uses case studies to examine sustainability challenges throughout the denim lifecycle, and to evaluate new green initiatives and recycling processes. It will be of great use to industry professionals, sustainability managers, textile industry researchers and denim manufacturers. Reviews and studies denim from a sustainability perspective, addressing its major environmental, social and economic impacts Provides the reader with a fundamental knowledge of the history, manufacture and lifecycle of denim, thus enabling a holistic view of denim sustainability Presents new green initiatives for the processing and recycling of denim products for promotion and use amongst sustainability groups Covering the fundamentals of air-borne particles and settled dust in the indoor environment, this handy reference investigates: * relevant definitions and terminology, * characteristics, * sources, * sampling techniques and instrumentation, * exposure assessment, * monitoring methods. The result is a useful and

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comprehensive overview for chemists, physicists and biologists, postgraduate students, medical practitioners, occupational health professionals, building owners and managers, building, construction and air-conditioning engineers, architects, environmental lawyers, government and regulatory professionals.

This book serves as essential reading for research scientists and biotechnologists from both academia and industry working in marine biotechnology and related disciplines. The book discusses recent advances and challenges in terms of science, technology, innovation, and policy for the development of the field; and how marine biotechnology may provide new solutions to some of the grand challenges faced by our society. Written in an accessible language, the book is also recommended as a reference text for decision-makers in government and non-governmental organizations in their efforts to foster the development of a global blue economy. With less than 5 % of the vast and rich marine environment explored, our seas and oceans represent a virtually unexplored resource for the discovery of novel product, processes, and development of bio-inspired synthetic drugs with biotechnological potential. As such, the marine environment has been considered Earth's last frontier of exploration. Recent advances in molecular techniques are providing the necessary tools to access on a larger scale the still-untapped ocean resources and, consequently, unveil the promise of the blue biotechnology. Governments are recognizing the potential of marine biotechnology to provide solutions to some of the Grand Challenges of the 21st Century such

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as sustainable energy and food sources, identification of novel drugs for improved health treatments, and providing new industrial materials and processes. For this reason, advances in marine biotechnology may foster the much-needed source of innovation and economic growth in many countries, and pave the way towards the development of a global blue economy, i.e. a new economic model based on the sustainable exploration of our ocean ecosystems.

This book aims to revisit the “traditional” interaction between channel strategies and the marketing mix in a connected world. In particular, it focuses on the following four dimensions in this context: Consumers, Products, Value Proposition and Sustainability. Keeping in mind the growing digitalization of business processes in the retail world and the move towards omni-channel retailing, the book introduces the state-of-the-art academic and practitioner studies along these dimensions that could enhance the understanding of the potential impact that new technologies and strategies can have on practice in the near future. When launching a new product/service to market, firms usually consider various components of the marketing mix to influence consumers’ purchase behaviors, such as product design, convenience, value proposition, promotions, sustainability initiatives, etc. This mix varies depending on the specific channel and consumer niche that the firm is targeting. But this book shows how channel strategy also influences the effectiveness in utilizing the marketing mix to attract potential customers.

Principles for Evaluating Building Materials in

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Sustainable Construction: Healthy and Sustainable Materials for the Built Environment provides a comprehensive overview of the issues associated with the selection of materials for sustainable construction, proposing a holistic and integrated approach. The book evaluates the issues involved in choosing materials from an ecosystem services perspective, from the design stage to the impact of materials on the health of building users. The three main sections of the book discuss building materials in relation to ecosystem services, the implications of materials choice at the design stage, and the impact of materials on building users and their health. The final section focuses on specific case studies that illustrate the richness of solutions that existed before the rise of contemporary construction and that are consistent with a sustainable approach to creating built environments. These are followed by modern examples which apply some, if not all, of the principles discussed in the first three sections of the book. Provides a holistic and integrated approach to the issues associated with the selection of materials for sustainable construction Provides a thorough understanding of ecosystem services based on ecology research for built environment design Provides an original review of the impact of materials on human health Provides case studies to illustrate the points above

Adhesive bonding plays an increasing role in the forest product industry and is a key factor for efficiently utilizing timber and other lignocellulosic resources. As synthetic wood adhesives are mostly derived from depleting petrochemical resources and have caused increasing

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environmental concern, natural product and byproduct-derived adhesives have attracted much attention in the last decades. Although adhesives made from plant and animal sources have been in existence since ancient times, increased knowledge of their chemistry and improved technical formulation of their preparation are still needed to promote their broader industrial applications. The primary goals of this book are to (1) synthesize the fundamental knowledge and latest research on bio-based adhesives from a remarkable range of natural products and byproducts, (2) identify need areas and provide directions of future bio-based adhesive research, and (3) help integrating research findings in practical adhesive application for maximal benefits. This book covers information on a variety of natural products and byproducts and the latest research on formulation, testing and improvement of the relevant adhesives in fifteen chapters written by an international group of accomplished contributors. This book will serve as a valuable reference source for university faculty, graduate students, research scientists, agricultural and wood engineers, international organization advocates and government agency regulators who work and deal with enhanced utilization of agricultural and forest products and byproducts.

The Global Gender and Environment Outlook (GGEO) provides an overview of critical evaluations and analyses of the interlinkages between gender and the environment, and their importance for gender-sensitive policymaking and actions. The GGEO was first proposed by the Network of Women Ministers and Leaders for the

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Environment (NWMLE) to UNEP at the United Nations Conference on Sustainable Development (Rio+20). The 2014 United Nations Environment Assembly subsequently welcomed the development of the GGEO, and the use of social science information and gender relevant indicators to examine the links between gender and the environment. The report describes policy options and concrete opportunities to contribute to the future we want - a future of justice and equality that leaves no one behind. It reflects and builds on the ground-breaking work of hundreds of scientists, policy experts, gender advocates and members of community groups. And it examines a wide range of topics, including food production, water and sanitation, energy, sustainable consumption and production, fisheries and fishing communities, and forests and those who depend on them for their livelihoods.

Advances in Carbon Management Technologies comprises 43 chapters contributed by experts from all over the world. Volume 1 of the book, containing 23 chapters, discusses the status of technologies capable of yielding substantial reduction of carbon dioxide emissions from major combustion sources. Such technologies include renewable energy sources that can replace fossil fuels and technologies to capture CO₂ after fossil fuel combustion or directly from the atmosphere, with subsequent permanent long-term storage. The introductory chapter emphasizes the gravity of the issues related to greenhouse gas emission global temperature correlation, the state of the art of key technologies and the necessary emission reductions

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needed to meet international warming targets. Section 1 deals with global challenges associated with key fossil fuel mitigation technologies, including removing CO₂ from the atmosphere, and emission measurements. Section 2 presents technological choices for coal, petroleum, and natural gas for the purpose of reducing carbon footprints associated with the utilization of such fuels. Section 3 deals with promising contributions of alternatives to fossil fuels, such as hydropower, nuclear, solar photovoltaics, and wind. Chapters 19 of this book is freely available as a downloadable Open Access PDF under a Creative Commons Attribution-Non Commercial-No Derivatives 4.0 license. The links can be found on the book's Routledge web page at <https://www.routledge.com//9780367198428>

This proceedings is a collection of selected papers presented at the 2015 International Conference on Environmental Science and Sustainable Development (ICESSD 2015), which was held on October 25–26, 2015, Bangkok, Thailand. Issues covered include environment protection and sustainable development. Researchers working in these two areas should find results in the proceedings enlightening and topics discussed challenging. Contents:Environmental Pollution and Protection Engineering:Source Identification of Heavy Metals on Surface Soil in Guiyang City, China (L J Dai, X F Cai, J Wang, Y X Zhang and F Q Hu)Hazard Analysis and Protective Countermeasures of Dust Explosion in Dedusting System (J F Zhang, X Liu, Q Li, Y L Li and Y Hu)Digital Manufacturing: Way to the Environment Safe Factory (A A Kutin and N N

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Zakshevskaya)Disposal of Plastic Waste and Stone Dust: A Sustainable Development Approach (Thangjam Somchand Singh)Ambient Air Quality in Thailand: The Impact of Particulate and Gaseous pollutants on IAQ (Christopher O Muller, Henri Seng and Tavatchai Satiennattanakul)Investigation on Heavy Metal Enrichment Characteristics of Eight Weeds in Coalmine Wasteland, Eastern Guangdong (Y M Zhong, Q H Yang, X L Zeng, D L Liu and H N Liu)New Approach to Development of Flow Neutralization System for Exhaust Gases Purification (A A Vedyagin, I V Desyatykh, T A Maksimova and I V Mishakov)Statistical Relationship between Dissolved and Suspended Components in an Electrically-Enhanced Membrane Bioreactor for Municipal Wastewater Treatment (A Giwa and S W Hasan)Enhancement of Anaerobic Biodegradability and Solubilization by Thermal Pre-Treatment of Waste Activated Sludge (S Y Jeong, J H Jeung, D H Moon and S W Chang)Liquid Recirculation System for Anaerobic Digestion Using Source Sorted Food Waste (C H Cho and B H Lee)Characteristics of Carbonization Residue with Mixture of Woody Waste and Sewage Sludge (H J Choi and S W Rhee)Research on Palladium Silver Alloy Resistance Hydrogen Sensor (Z T Geng and Q He)Power Analysis of Small Wind Turbine (K Y Huang, G C Tsai, G J Guo and C K Feng)Integrated Waste Management — Technology Transfer between Australia and Nepal (K Douglas, D Ionescu, B Mainali and J Petrolito)Northern Tibet Grassland Vegetation Index Factor Screening and Suitability Partition (G Q Zheng, H C Zheng and Y X Li)Remote Sensing of Suspended

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Particulate Matter Variability of the Global Coastal Waters Over the Last Decade (H Loisel, V Vantrepotte, D Dessailly, F Steinmetz and B Han)Risk Assessment on Storm Flood Disasters of Different Return Periods in Huai River Basin (Z T Zhang, N Li and C Gao)Effects of N and P Additions on Soil Nutrient and Biochemical Characteristics in an Acacia Mangium Stand (J Li, W L Huang, L Xue and Z Y Lie)Soil Characteristics of Tephrosia Candida Stands with Different Densities (Z Y Lie, J Li, L Xue and W L Huang)Diagnostics of the Influence of Suspended Solids and Phosphorus on Groundwater Quality (Lucie Teslikova Hurdalkova, Dagmar Kuta and Nada Zdrzilova)Analytical Research on Pollution Sources of PAHs in the Soil Based on Principal Component Analysis (PCA) (F Chen, Z W Cao and Y F Zhang)Strategic Approach to Develop Biological Washing in Global Scale (H K Zhang, J M H Chiang, M Plaisent and P Bernard)From the Perspective of Green Laws to Discuss the Green Environmental Performance of Manufacturers (S B Tsai)Determination of the Maximum Explosion Pressure of Coal Dust Clouds (R Kuracina, Z Szabova, M Mencik and P Cekan)Research of Multi-Functional Coastal Zoning and Evaluation Based on Principle Component Analysis (L Zhao, M M Song and Z D Xu)Residence Time Distribution and Disinfectant Mixing in Private Water Tanks (V G Tzatchkov, A Martin-Dominguez and R D Hernandez-Lopez)Analysis of Inconsistent Hydrological Frequency Based on TFPW-MK-Pettitt and EEMD (J Wu, Y F Chen and Q Hang)Energy Science and Sustainable Development:Energy Consumption of Ozone Generation

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and Dye Degradation by Using ZnO Photocatalytic Ozonation (Suntree Sangjan, Sirichai Puasawat and Channarong Uamthong)Nannochloropsis Oculata Algae as Biofuels: A Review on Two-Stage Culture (N A Zakariah, N Abd Rahman, F Hamzah, T Md Jahi and A Ismail)Life Cycle Assessment of Power Generation from Solar Energy in Thailand (W Khaenson, S Maneewan, C Punlek, S Chindaraksa and N Rachapradit)Wind Load Analysis and Temperature Measuring Experiment for Design and Fabrication of Solar Collecting System Combined Small Flat Mirrors (K H Song, C W Son, H S Ahn, K T Kim, T I Seo, B H Jo and J E Kim)Investigating Competitive Strategies of Renewable Energy Enterprises from the Perspective of Renewable Energy Law (S B Tsai)Air Steam Gasification of Coconut Shell in a Fluidized Bed (S Baskara Sethupathy and E Natarajan)Effect of Electrolyte Composition and Anodic Voltage on the Morphology of TiO₂ Nanotube (Yongho Lee and Daewon Pak)Electrochemical Characteristics of IrO₂ + TaO₅ / Ti DSA Electrode (Jaemin Yoo and Daewon Pak)Effect of Temperature on Torrefaction of Food Waste Using Heat Carrier (Hyunsook Kim and Daewon Pak)Simulation on Improved Genetic Algorithm of The Ship's Superheated Steam Pressure (P Wang, S Zeng, R H Dai and G L Zhang)Methane Potential of Various Organic Wastes: Study of Biochemical Methane Potential (BMP) Test Before Co-Digestion (J H Jeung, D H Moon and S W Chang)The External Benefits of Expanding Organic Waste-To-Energy Facilities in Korea: A Contingent Valuation Study (S H Min, S Y Park and S H Yoo)The External Benefits of Expanding Organic

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Waste-To-Energy Facilities in Korea: A Choice Experiment Study (Hyo-Jin Kim, So-Yeon Park and Seung-Hoon Yoo)The Economic Effects of Expanding Organic Waste-To-Energy Facilities in Korea: An Input-Output Analysis (Yong-Cheol Cho, Min-Ji Baek and Seung-Hoon Yoo)A New Porous Catalytic Filter for CO₂ Methanation (D H Moon, J H Jeung, S S Kim, and S W Chang)Cross-Country Analysis of the Sustainable Human Development Based on Slack-Based DEA (X Y Zhu, Y X Liu and S Q Ye)Road Asset Management for Sustainable Development (S Cafiso, A Di Graziano, C D'Agostino, G Pappalardo and B Capac)Assessment of Identified Risks in the Process of Preparing and Creating a Municipal Land Plan (J Betáková and J. Dvorský)Research on Re-Employment Condition of Flexible Employment (J Wu and X Wang)Factors Affecting Consumer's Choice for Electric Motorcycles: A Case in Macau (X Zhou, N Sheng and K P Liang)The Performance of a Batch Rotating Fixed Bed of Scrap Bearing Iron Spheres in Hexavalent Chromium Reduction (S Nabil, T M Zewail and N K Amin)Implementation and Design of Voltage-Mode CMOS PWM Boost Power Converter with Feed Forward and Feedback Control Circuit (Min-Chin Lee and Wen-Shiang Jung)Foundation Stability Research of Mat Jack-Up Oil-Storage-Offloading Platform (Y Gao, Z C Deng, S Wu and L P Sun)Biological and Medical Engineering:Study on the Pyrolysis of Seven Monosaccharides (C J Ru, Q D Zhang, S L Zhang, Y B Song, J X Zhang, Y L Zong, R P Han, J H Liu and Y Q Li)Study on Physical and Chemical Properties of 10

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Species Phorophyte Canopy Humus of Epiphyte Ferns in Ailaoshan Mts., Yunnan, China (X L Li, J M Feng, X M Li, G S Li and C D Xu)Desulfurization of Oil by Recombinant Rhodococcus Gordoniae Strain R3 (Theeta Sricoth, Prayad Pokethitiyook, Toemthip Poolpak and Maleeya Kruatrachue)Bioinspired Neural Model of the Semantic Content (M Crisan)Noble Metal (Co-) Functionalized TiO₂ Containing Photoreactive Hybrid Surfaces Against Antibiotic Resistant Staphylococcus Aureus and Escherichia Coli (I. Dékány, Sz P Tallósy and L Janovák)Trajectory Tracking Error between Plant, Reference and Adaptive Neural Networks Using Two Control Law for Two-Link Robot Manipulator (Joel Perez Padron and Jose Paz Perez Padron)Insecticidal Activity of Crude Extract from Seeds of Millettia Pachyarpa on Cabbage Aphid (T X Lin, M F Gong, Q L Guan and J N Mao)Screening of Endophytic Bacteria Isolated from Rice Plant Antagonistic Rice Sheath Blight (J N Mao, C H Xu and M F Gong)Disease Resistance Induction in Rice by Inoculation with Endophytic Bacteria Strain REB01 (J N Mao, X Y Zhang and M F Gong)Density Effect on the Nutrient Distribution of Elaeocarpus Sylvestris Seedlings (W L Huang, J Li, L Xue and Z Y Lie)Effects of Low Temperature Stress and Release on Fluorescence Indexes of Greening Seedlings of Three Tree Species (Z M Wang, T T Zhou and L Xue)The Bounded Rational Analysis and Treatment of Accounting Professional Judgment Behavior (S H Liu)Static Rigidity Test Analysis of Some Body-in-White Car (A L Sun, X L Tan, J Zhang, X L Zuo and W Peng)A Bilevel Programming Reformulation for a Single-Leg Flight

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Capacity Control Problem (R X Gao and H P Jiang) Author Index Readership: Researchers, academics, professionals and graduate students in environmental science.

Handbook of Hygiene Control in the Food Industry, Second Edition, continues to be an authoritative reference for anyone who needs hands-on practical information to improve best practices in food safety and quality. The book is written by leaders in the field who understand the complex issues of control surrounding food industry design, operations, and processes, contamination management methods, route analysis processing, allergenic residues, pest management, and more. Professionals and students will find a comprehensive account of risk analysis and management solutions they can use to minimize risks and hazards plus tactics and best practices for creating a safe food supply, farm to fork. Presents the latest research and development in the field of hygiene, offering a broad range of the microbiological risks associated with food processing Provides practical hygiene related solutions in food facilities to minimize foodborne pathogens and decrease the occurrence of foodborne disease Includes the latest information on biofilm formation and detection for prevention and control of pathogens as well as pathogen resistance

This book presents an overview of various types of lignin and their unique structures and properties, as well as utilizations of crude or modified technical lignin for high-value bioproducts such as lignin-based PF resins/adhesives, epoxy resins, PF foams,

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PU foams, rubber reinforcement and carbon fibers and as dispersants in drilling fluids in the oil and gas industry. It subsequently discusses various thermal/chemical modification techniques (pyrolysis, direct liquefaction and de-polymerization) for converting lignin into oils and chemical feedstocks, and the utilization of crude lignin, lignin-derived oils or depolymerized lignins (DLs) of reduced molecular weights and improved reactivity to produce lignin-based PF resins/adhesives, PF/PU foams and epoxy resins. The book will interest and benefit a broad readership (graduate students, academic researchers, industrial researchers and practitioners) in various fields of science and technology (chemical engineering, biotechnology, chemistry, material science, forestry, etc.). Chunbao (Charles) Xu, PhD, is currently a Professor of Chemical Engineering and NSERC/FPIInnovations Industrial Research Chair in Forest Biorefinery at the University of Western Ontario, Canada. Fatemeh Ferdosian, PhD, is currently a postdoctoral fellow at the University of Waterloo, Canada.

Plant polyphenols are secondary metabolites that constitute one of the most common and widespread groups of natural products. They are crucial constituents of a large and diverse range of biological functions and processes, and provide many benefits to both plants and humans. Many polyphenols, from their structurally simplest

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representatives to their oligo/polymeric versions, are notably known as phytoestrogens, plant pigments, potent antioxidants, and protein interacting agents. This sixth volume of the highly regarded Recent Advances in Polyphenol Research series is edited by Heidi Halbwirth, Karl Stich, Véronique Cheynier and Stéphane Quideau, and is a continuance of the series' tradition of compiling a cornucopia of cutting-edge chapters, written by some of the leading experts in their respective fields of polyphenol sciences. Highlighted herein are some of the most recent and pertinent developments in polyphenol research, covering such major areas as: Chemistry and physicochemistry Biosynthesis, genetics & metabolic engineering Roles in plants and ecosystems Food, nutrition & health Applied polyphenols This book is a distillation of the most current information, and as such, will surely prove an invaluable source for chemists, biochemists, plant scientists, pharmacognosists and pharmacologists, biologists, ecologists, food scientists and nutritionists.

Formaldehyde is virtually ubiquitous in the modern environment due to its cost-effective nature, its use in resin formation, and its preservative properties. Though formaldehyde is necessary for many products and processes important to the world's economy, this economic dependence on formaldehyde comes at a cost to public health.

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Growth and consequent industrialization rely heavily on formaldehyde use. New buildings—residences, public places, and offices—are not only built with timber preserved by formaldehyde, but they are also furnished with wood, wool, and textile products that contain formaldehyde. The general population faces environmental exposure from indoor and outdoor air pollution, food, and even medicine. Scientific inquiry into formaldehyde exposure has grown in response. This book consolidates the new and established body of formaldehyde research in the scholarly community, focusing on exposure, genotoxicity, and adverse health outcomes. Through this resource, we hope to increase awareness of the broad range of health effects posed by formaldehyde exposure, and to encourage interdisciplinary interest, as well as research, into this pervasive compound—especially in the United States and China, where formaldehyde production and usage is high. This book will be useful to researchers of environmental and occupational exposure, students, and government regulators and anyone exposed to formaldehyde in the workplace and/or at home.

This revised and updated new edition of a successful book is a multidisciplinary, comprehensive guide to occupational factors of malignant diseases. Building on the first edition, new research discoveries and their consequences in our understanding on carcinogenic mechanisms, diagnosis and attribution

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of occupational cancers are discussed. Examples of such discoveries are germline and acquired mutations of BAP1 in malignant mesothelioma, which have led to changes in diagnostic criteria, and carcinogen-specific genetic and epigenetic alterations in lung cancer. There are several new chapters, including gastrointestinal cancers, epidemiology of lung cancer, cancer of thyroid, and the role of primary health care in occupational cancer control. Occupational Cancers is aimed at experienced and trainee oncologists, pathologists, clinicians in occupational health, and pulmonologists, as well as epidemiologists, clinical researchers, lawyers and public health officials.

Millions of Americans use e-cigarettes. Despite their popularity, little is known about their health effects. Some suggest that e-cigarettes likely confer lower risk compared to combustible tobacco cigarettes, because they do not expose users to toxicants produced through combustion. Proponents of e-cigarette use also tout the potential benefits of e-cigarettes as devices that could help combustible tobacco cigarette smokers to quit and thereby reduce tobacco-related health risks. Others are concerned about the exposure to potentially toxic substances contained in e-cigarette emissions, especially in individuals who have never used tobacco products such as youth and young adults. Given their relatively recent introduction, there has

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been little time for a scientific body of evidence to develop on the health effects of e-cigarettes. Public Health Consequences of E-Cigarettes reviews and critically assesses the state of the emerging evidence about e-cigarettes and health. This report makes recommendations for the improvement of this research and highlights gaps that are a priority for future research.

Formaldehyde Exposure, Toxicity and Health Effects
Royal Society of Chemistry

This book examines in detail key aspects of sustainability in the textile industry, especially environmental, social and economic sustainability in the textiles and clothing sector. It highlights the various faces and facets of sustainability and their implications for textiles and the clothing sector.

This book provides a global perspective on the various issues that the industry has to face as well as to provide some key global strategies that can help coping with those global challenges, such as collaboration, strategic value chain planning, and interdependency analyses. It presents literature reviews, strategic research orientations, assessment of some current key issues, and state-of-the-art methodologies.

Hydrogen is believed to be the energy source of the future, enabling zero-emission and efficient production of power. This comprehensive publication presents a broad spectrum of various chemical aspects of hydrogen storage. The authors

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also address global climate change issues, carbon dioxide sequestration problems and CO₂-based hydrogen storage. In 2020, COVID-19 starkly demonstrated the global interconnectedness of business, as it disrupted supply chains and manufacturing operations, broadly shuttered retail stores, and led to restrictions on movement and travel around the world. Other events in 2019 also showcased the undeniable globalization of business, be it from the (un)expected ramifications of Brexit to the impacts of data breaches across various industries. Riots in Hong Kong over an extradition bill also sparked huge debate and controversy, and the U.S.-China trade war also caused concern. All of these events may have largely and immediately impacted one region, yet effects reverberate across larger swathes of the globe—ultimately affecting vast areas, industries, and sectors across the international landscape. Issues in Global Business explores all of these and more, across a wide range of topics, including the on-demand economy, global manufacturing, Bitcoin, data security, and many more. Coupled with a comprehensive overview of the business landscape around the world by Dr. Mamoun Benmamoun, an assistant professor at the Boeing Institute of International Business at Saint Louis University, this book provides students with the essential information they need to assess business practices through an international lens.

Polymeric materials form the basis of daily life. Despite the great contribution of traditional methodologies such as anionic and radical polymerizations in preparing various functional polymers, the increasing demand for polymers with new structures and functions has inspired the development of new synthetic techniques. Many new polymerizations including click polymerization, controlled/living radical polymerization and multicomponent polymerization have been well developed. Focusing on breakthroughs and recent

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progress, Synthetic Polymer Chemistry provides efficient tools for the synthesis of linear and topological polymers. Chapters cover topics including fabrication of supramolecular polymers, organocatalytic synthesis and olefin co(polymerization). This title will be a valuable reference for those working in polymer chemistry, as well as students and researchers interested in opto-electronic, biological and materials sciences.

This book examines bioremediation technologies as a tool for environmental protection and management. It provides global perspectives on recent advances in the bioremediation of various environmental pollutants. Topics covered include comparative analysis of bio-gas electrification from anaerobic digesters, mathematical modeling in bioremediation, the evaluation of next-generation sequencing technologies for environmental monitoring in wastewater abatement; and the impact of diverse wastewater remediation techniques such as the use of nanofibers, microbes and genetically modified organisms; bioelectrochemical treatment; phytoremediation; and biosorption strategies. The book is targeted at scientists and researchers working in the field of bioremediation.

The use of distinctive colourants and finishes has a significant impact on the aesthetic appeal and functionality of technical textiles. Advances in the textile chemical industry facilitate production of diverse desirable properties, and are therefore of great interest in the production of textile products with enhanced performance characteristics. Drawing on key research, Advances in the dyeing and finishing of technical textiles details important advances in this field and outlines their development for a range of applications. Part one reviews advances in dyes and colourants, including chromic materials, optical effect pigments and microencapsulated colourants for technical textile applications. Other types of functional dyes considered include UV- absorbent, anti-

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microbial and water-repellent dyes. Regulations relating to the use of textile dyes are discussed before part two goes on to investigate such advances in finishing techniques as mechanical finishing, softening treatments and the use of enzymes. Surfactants, Inkjet printing of technical textiles and functional finishes to improve the comfort and protection of apparel are also explored. The use of nanotechnology in producing hydrophobic, super-hydrophobic and antimicrobial finishes is dealt with alongside coating and lamination techniques, before the book concludes with a discussion of speciality polymers for the finishing of technical textiles. With its distinguished editor and international team of expert contributors, *Advances in the dyeing and finishing of technical textiles* is a comprehensive guide for all those involved in the development, production and application of technical textiles, including textile chemists, colour technologists, colour quality inspectors, product developers and textile finishers. Discusses important advances in the textile chemical industry Considers developments in various dyes and colourants used in the industry, including water repellent, functional and anti-microbial dyes Chapters also examine advances in finishing techniques, the use of nanotechnology and speciality polymers in technical textiles

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