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For almost 100 years, Coney Island was the most popular seaside destination in the United States. Each year, millions escaped the heat of New York City to savor the thrills of the Cyclone roller coaster and Wonder Wheel at the Astroland amusement park. They came to sample an original Nathan's Famous hot dog, witness the first demolition derby, or to take a chance at a game of three-card Monte on the legendary boardwalk. The advent of air-conditioning, concerns about Coney's "tawdry"

entertainment, and faster transportation to other beaches hastened the demise of what had become a uniquely American icon of entertainment and a defining terminus of New York at the water's edge. In an effort to revitalize the area, the Van Alen Institute, in concert with the Coney Island Development Corporation, held the Parachute Pavilion Competition, a contest to design a year-round pavilion in the shadow of the Parachute Jump, a landmark built for the 1939 World's Fair. Coney Island: The Parachute Pavilion Competition presents all 864 submissions from the feasible to the fantastic received from around the world. The winning

design by London-based Carmody Groarke Hardie is a mesmerizing attraction in its own right, composed of two provocative trapezoids illuminated by thousands of colored light bulbs. The design respects the historic icon under which it is located but also promises to become an icon in its own right and bring the fun-loving spirit of Coney Island into the twenty-first century. Featuring essays, photographic documentation, and jury comments, Coney Island: The Parachute Pavilion Competition is a critical resource for students, designers, city officials, and anyone interested in Coney Island and the reinvention of the historic

recreation sites of our cities. This volume provides a complete record of presentations made at Industrial Engineering, Management Science and Applications 2015 (ICIMSA 2015), and provides the reader with a snapshot of current knowledge and state-of-the-art results in industrial engineering, management science and applications. The goal of ICIMSA is to provide an excellent international forum for researchers and practitioners from both academia and industry to share cutting-edge developments in the field and to exchange and distribute the latest research and theories from the

international community. The conference is held every year, making it an ideal platform for people to share their views and experiences in industrial engineering, management science and applications related fields. With the far-reaching global impact of the COVID-19 pandemic, the demand and the necessity for digital enterprise transformation have accelerated exponentially. Management and strategies for the adoption and wider usage of newer digital technologies for the transformation of an enterprise through digital tools such as real-time video communications have shown that people no longer need to

be required to be physically present in the same place; rather, they can be geographically dispersed. Technologies such as artificial intelligence, cloud computing, digital banking, and cloud data have taken over tasks that were initially done by human hands and have increased both the automation and efficiency of tasks and the accessibility of information and services. Inclusion of all these newer technologies has shown the fast pace at which the digital enterprise transformation is rapidly evolving and how new ecosystems are reshaping the digital enterprise model. Disruptive Technology and Digital Transformation for

Business and Government presents interesting research on digital enterprise transformation at different stages and across different settings within government and industry, along with key issues and deeper insights on the core problems and developing solutions and recommendations for digital enterprise transformation. The chapters examine the three core leaders of transformation: the people such as managers, employees, and customers; the digital technology such as artificial intelligence and robotics; and the digital enterprise, including the products and services being transformed. They unravel the underlying process

for management and strategies to fully incorporate new digital tools and technologies across all aspects of an enterprise undergoing transformation. This book is ideally intended for managers, executives, IT consultants, business professionals, government officials, researchers, students, practitioners, stakeholders, academicians, and anyone else looking to learn about new developments in digital enterprise transformation of business systems from a global perspective. Plant foods are an essential part of our daily diet and constitute one of the highest contributors to the world economy. These foods are rich in phenolic

compounds, which play a significant role in maintaining our health. This textbook presents a comprehensive overview of the chemistry, biochemistry and analysis of phenolic compounds present in a variety of foods. The text can be used as a singular source of knowledge for plant food science and technology, covering all of the important chemical, biochemical and analytical aspects needed for a thorough understanding of phenolic antioxidants in foods. Phenolic Antioxidants In Foods: Chemistry, Biochemistry, and Analysis is comprised of three sections. The first section covers the basic concepts of antioxidants, their chemistry

and their chemical composition in foods, providing a detailed introduction to the concept. The second section covers the biochemical aspects of phenolic antioxidants, including their biosynthetic pathways, biological effects and the molecular mechanism of antioxidant effects in the biological system. This section promotes an understanding of the fundamental biochemical reactions that take place in foods and after digestion and absorption. The third section covers the analytical chemistry used in the analysis of phenolic antioxidants in foods, including the basic analytical procedures, methods for analysis and chromatographic and

spectroscopic analyses. This section is significant for aspiring food chemists and manufacturers to evaluate the nature and chemistry of phenolic antioxidants in foods. Featuring helpful quizzes, section summaries, and key chapter points, this textbook is the perfect learning tool for advanced chemistry undergraduates and post-graduates looking to gain a fundamental understanding of phenolic antioxidants in food products. Rapid industrialization is a serious concern in the context of a healthy environment. With the growth in the number of industries, the waste generated is also growing exponentially.

The various chemical processes operating in the manufacturing industry generate a large number of by-products, which are largely harmful and toxic pollutants and are generally discharged into the natural water bodies. Once the pollutants enter the environment, they are taken up by different life forms, and because of bio-magnification, they affect the entire food chain and have severe adverse effects on all life forms, including on human health. Although, various physico-chemical and biological approaches are available for the removal of toxic pollutants, unfortunately these are often ineffective and traditional clean

up practices are inefficient. Biological approaches utilizing microorganisms (bacterial/fungi/algae), green plants or their enzymes to degrade or detoxify environmental pollutants such as endocrine disruptors, toxic metals, pesticides, dyes, petroleum hydrocarbons and phenolic compounds, offer eco-friendly approaches. Such eco-friendly approaches are often more effective than traditional practices, and are safe for both industry workers as well as environment. This book provides a comprehensive overview of various toxic environmental pollutants from a variety natural and anthropogenic sources, their

toxicological effects on the environment, humans, animals and plants as well as their biodegradation and bioremediation using emerging and eco-friendly approaches (e.g. Anammox technology, advanced oxidation processes, membrane bioreactors, membrane processes, GMOs), microbial degradation (e.g. bacteria, fungi, algae), phytoremediation, biotechnology and nanobiotechnology. Offering fundamental and advanced information on environmental problems, challenges and bioremediation approaches used for the remediation of contaminated sites, it is a valuable resource for students,

scientists and researchers engaged in microbiology, biotechnology and environmental sciences. Comprehensive coverage on the growing science and technology of producing ethanol from the world's abundant cellulosic biomass. The inevitable decline in petroleum reserves and its impact on gasoline prices, combined with climate change concerns, have contributed to current interest in renewable fuels. Bioethanol is the most successful renewable transport fuel—with corn and sugarcane ethanol currently in wide use as blend-in fuels in the United States, Brazil, and a few other countries. However, there are a

number of major drawbacks in these first-generation biofuels, such as their effect on food prices, net energy balance, and poor greenhouse gas mitigation. Alternatively, cellulosic ethanol can be produced from abundant lignocellulosic biomass forms such as agricultural or municipal wastes, forest residues, fast growing trees, or grasses grown in marginal lands, and should be producible in substantial amounts to meet growing global energy demand. The Handbook of Cellulosic Ethanol covers all aspects of this new and vital alternative fuel source, providing readers with the background, scientific

theory, and recent research progress in producing cellulosic ethanol via different biochemical routes, as well as future directions. The seventeen chapters include information on: Advantages of cellulosic ethanol over first-generation ethanol as a transportation fuel Various biomass feedstocks that can be used to make cellulosic ethanol Details of the aqueous phase or cellulolysis route, pretreatment, enzyme or acid saccharification, fermentation, simultaneous saccharification fermentation, consolidated bioprocessing, genetically modified microorganisms, and yeasts Details of the syngas

fermentation or thermochemical route, gasifiers, syngas cleaning, microorganisms for syngas fermentation, and chemical catalysts for syngas-to-ethanol conversion Distillation and dehydration to fuel-grade ethanol Techno-economical aspects and the future of cellulosic ethanol Readership Chemical engineers, chemists, and technicians working on renewable energy and fuels in industry, research institutions, and universities. The Handbook can also be used by students interested in biofuels and renewable energy issues. This book presents the potential of bacterial cellulose in the textile and fashion

industry. Most of the earlier work on the bacterial cellulose was focused on the bio technology application of cellulose, but the recent urge for the need of a sustainable material in the fashion and textile industries identified the scope of the bacterial cellulose in this aspect. The unique feature of this book is that it relates the bio technological aspects of bacterial cellulose with the sustainable issues in the fashion industry. The Role of Materials Science in Food Bioengineering, Volume 19 in the Handbook of Food Bioengineering, presents an up-to-date review of the most recent advances in materials science, further demonstrating

its broad applications in the food industry and bioengineering. Many types of materials are described, with their impact in food design discussed. The book provides insights into a range of new possibilities for the use of materials and new technologies in the field of food bioengineering. This is an essential reference on bioengineering that is not only ideal for researchers, scientists and food manufacturers, but also for students and educators. Discusses the role of material science in the discovery and design of new food materials Reviews the medical and socioeconomic impact of recently developed

materials in food bioengineering Includes encapsulation, coacervation techniques, emulsion techniques and more Identifies applications of new materials for food safety, food packaging and consumption Explores bioactive compounds, polyphenols, food hydrocolloids, nanostructures and other materials in food bioengineering The expert contributors examine why an ethical foundation is important and why the system requires well-thought-out regulations to ensure outcomes that protect the community's well-being. The volume explores in detail the nature of Islamic banking prod New and Future

Developments in Microbial Biotechnology and Bioengineering: Aspergillus System Properties and Applications provides information on emerging issues related to recent advancements in aspergillus research and its applications in bioprocess technology, chemical engineering, genome biology, molecular taxonomy, secondary and metabolite production, industrial process and biofuels/bioenergy research, and alternative fuel development. The book covers the various novel enzymes secreted by these fungi and their specific use in the food, textile, pulp and paper, biocellulosic ethanol

production, and other industries. The book describes research and experimentation on aspergillus activity and directly connects them to their use in bioprocess technology, chemical engineering, bioremediation process, secondary metabolite production, pharmaceutical processes, protein production, industrial process, biofuels/bioenergy research, and alternative fuel development. Readers will find this book to be an indispensable resource for biotechnologists, biochemical engineers, biochemists, microbiologists, bioinformatics researchers, and other biologists who are interested in

learning about the potential applications of these fungi. Compiles available, up-to-date information on recent developments made in the study of aspergillus system properties Contains global content from pioneering international authors Presents current research efforts and links them to various applications, including uses in foods, textiles, pulp and paper, and in biocellulosic ethanol production Provides an indispensable resource for biologists who are interested in learning about the potential applications of the fungi aspergillus This comprehensive and unique text presents a full overview of downstream

processing useful for those new to the concept as well as professionals with experience in the area. The history and theoretical principles of Aqueous Two-Phase Systems (ATPS) are covered in depth. Information on ATPS characterization and application is included, and ATPS equilibria and system parameters that have significant effect on partition behavior are studied. Aqueous Two-Phase Systems for Bioprocess Development for the Recovery of Biological Products addresses specific applications of ATPS for the recovery and partial purification of high molecular weight compounds such as

proteins, nucleic acids and polysaccharides, particulate bioproducts such as cells and organelles and low molecular weight compounds. Non-conventional strategies involving ATPS such as affinity systems, continuous liquid-liquid fractionation stages and the recovery from plant extracts are presented. Economic analysis of the application of ATPS in comparison to other fractionation techniques, particularly liquid chromatography, is considered, as are opportunity and current trends in the ATPS research area. Each chapter utilizes the contributors' experimental expertise in traditional and

non-conventional ATPS strategies, as well as analysis of areas of opportunity and perspectives on the development and future applications of ATPS in both the lab and larger scale operations. The result is a thorough and singular overview of ATPS which has not been matched by any other text on the market. This new edition provides comprehensive coverage of the variety and complexity of the roles that glycoconjugates play in the cells of the nervous system. Basic fundamental principles as well as the latest developments in neural glycobiology are discussed. Topics covered range from the structure and

metabolism of the saccharide chains and current approaches used in their study, to changes glycoconjugates undergo during development and aging of the nervous system and the roles they have in neurological disease. New topics include a detailed discussion of cells found within the nervous system, an extensive listing of congenital disorders of glycosylation of both proteins and lipids, the roles of glycans in neuronal axon growth/guidance and voltage-gated channels, the role of intra-lysosomal luminal vesicles in lysosomal storage disorders, and, in the time of the COVID-19 pandemic, the role of carbohydrates in infection by

SARS-CoV-2. The breadth and depth of topics covered make this an essential reference for those new to the field as well as for more experienced investigators. The aim objective of CME 2014 is to provide a platform for researchers, engineers, academicians as well as industrial professionals from all over the world to present their research results and development activities in Information Management, Innovation Management, Project Management and Engineering. This conference provides opportunities for the delegates to exchange new ideas and application experiences face to face, to establish business or research

relations and to find global partners for future collaboration. Submitted conference papers will be reviewed by technical committees of the Conference. Urbanization, industrialization, and unethical agricultural practices have considerably negative effects on the environment, flora, fauna, and the health and safety of humanity. Over the last decade, green chemistry research has focused on discovering and utilizing safer, more environmentally friendly processes to synthesize products like organic compounds, inorganic compounds, medicines, proteins, enzymes, and food

supplements. These green processes exist in other interdisciplinary fields of science and technology, like chemistry, physics, biology, and biotechnology. Still the majority of processes in these fields use and generate toxic raw materials, resulting in techniques and byproducts which damage the environment. Green chemistry principles, alternatively, consider preventing waste generation altogether, the atom economy, using less toxic raw materials and solvents, and opting for reducing environmentally damaging byproducts through energy efficiency. Green chemistry is, therefore, the most important

field relating to the sustainable development of resources without harmfully impacting the environment. This book provides in-depth research on the use of green chemistry principles for a number of applications. Cost-Effective Technologies for Solid Waste and Wastewater Treatment synthesizes methods, case studies, and analyses of various state-of-the-art techniques for removing contaminants from wastewater, solid waste, or sewage and converting or reusing the waste with minimum impact on the environment. Focusing on innovative treatment strategies, as well as recent modifications to conventional

processes, the book covers methods for a complex variety of emerging pollutants including organic matter, chemicals, and micropollutants resulting from developmental and industrial activities. Serving as a practical guide to state-of-the-art methods, Cost-Effective Technologies for Solid Waste and Wastewater Treatment also delivers foundational information on the practical design of treatment and reuse systems and explains the treatments in terms of scale, efficiency, and effectiveness. It focuses on cost-effective technologies that are particularly applicable to environmental clean-up, such as bioaugmentation and

biostimulation of plastics, activated carbon, phytoremediation, crude oil pollution stress, adsorbents, contaminants of emerging concern, anaerobic digestion, in situ chemical oxidation (ISCO), biosorption, bioremediation, radioactive contaminants, constructed wetlands, nanoremediation, and rainwater. As such, it is a valuable and practical resource for researchers, students, and managers in the fields of environmental science and engineering, as well as wastewater management, chemical engineering, and biotechnology. • Presents low-cost treatment technologies for both solid waste and

wastewater • Analyzes the efficiency and effectiveness of state-of-the-art technologies • Includes methods and case studies for practical application

Biopolymer Membranes and Films: Health, Food, Environment, and Energy Applications presents the latest techniques for the design and preparation of biopolymer-based membranes and films, leading to a range of cutting-edge applications. The first part of the book introduces the fundamentals of biopolymers, two-dimensional systems, and the characterization of biopolymer membranes and films, considering physicochemical, mechanical and barrier properties.

Subsequent sections are organized by application area, with each chapter explaining how biopolymer-based membranes or films can be developed for specific innovative uses across the health, food, environmental and energy sectors. This book is a valuable resource for researchers, scientists and advanced students involved in biopolymer science, polymer membranes and films, polymer chemistry and materials science, as well as for those in industry and academia who are looking to develop materials for advanced applications in the health, food science, environment or energy industries. Presents detailed

coverage of a range of novel applications in key strategic areas across health, food, environment and energy

Considers the difficulties associated with two-dimensional materials

Assists the reader in selecting the best materials and properties for specific applications

Helps researchers, scientists and engineers combine the enhanced properties of membranes and films with the sustainable characteristics of biopolymer-based materials

Fungi are distinct eukaryotic organisms renowned for their remarkable biodiversity and extensive habitat range. Many fungal species have long been exploited for food and

medicines. This volume considers other important applications of fungal biotechnology especially in an environmental context, showcasing the essential contributions of these amazingly versatile organisms. It explores how fungi offer sustainable solutions to tackle various environmental concerns. Written by eminent experts in their fields, this work presents a broad array of current advances and future prospects in fungal environmental biotechnology and discusses their limitations and potential. The book is organized in five parts, each addressing a theme of the UN Sustainable Development Goals

(SDG): strengthen food security (Zero Hunger), wastewater treatment (Clean Water & Sanitation), pollution reduction (Life on Land), biofuel production (Affordable & Clean Energy) and biosynthesis of novel biomolecules (Responsible Consumption & Production). Application of Smart Grid Technologies: Case Studies in Saving Electricity in Different Parts of the World provides a wide international view of smart grid technologies and their implementation in all regions of the globe. A brief overview of smart grid concepts and state-of-the art technologies is followed by sections that highlight smart grid experiences in Asia,

Africa, North America, South America, Europe and Australasia. Chapters address select countries or sub-regions, presenting their local technological needs and specificities, status of smart grid implementation, technologies of choice, impacts on their electricity markets, and future trends. Similar chapter makes it easier to compare these experiences. In a time when the smart grid is becoming a worldwide reality, this book is ideal for professionals in power transmission and distribution companies, as well as students and researchers in the same field. It is also useful for those involved in energy

management and policymaking. Presents the status and challenges of smart grid technologies and their implementation around the globe Includes global case studies written by local experts and organized for easy comparison Provides a brief overview of smart grid concepts and currently available technologies This book provides various approaches to complex industrial problems in sustainability, operations management and industrial engineering. It features in-depth research presented by academics, scholars, researcher and professionals at the 3rd International

Conference on Quality Innovation and Sustainability (ICQIS) in the fields of quality, innovation, sustainability and operations management. It addresses topics such as quality management systems; Lean and Six Sigma; information systems for quality management; data management and industry 4.0; innovative solutions for quality challenges; environmental quality policies and standards; circular economy and life cycle costing; occupational health; safety and welfare in manufacturing; and smart systems, among others. Stem cell biology has drawn tremendous interest in recent years as it promises cures for a

variety of incurable diseases. This book deals with the basic and clinical aspects of stem cell research and involves work on the full spectrum of stem cells isolated today. It also covers the conversion of stem cell types into a variety of useful tissues which may be used in the future for transplantation therapy. It is thus aimed at undergraduates, postgraduates, scientists, embryologists, doctors, tissue engineers and anyone who wishes to gain some insight into stem cell biology. This book is important as it is comprehensive and covers all aspects of stem cell biology, from basic research to clinical applications. It will have 33

chapters written by renowned stem cell scientists worldwide. It will be up-to-date and all the chapters include self-explanatory figures, color photographs, graphics and tables. It will be easy to read and give the reader a complete understanding and state of the art of the exciting science and its applications. Antimicrobial packaging has recently attracted a great deal of interest from the food industry due to the boost in consumer demand for minimally-processed, preservative-free products. Antimicrobial polymeric packaging systems can be considered an emerging technology that could have an important impact on shelf life

extension and food safety. Novel polymeric-based packaging materials are continually being developed. This book collects carefully chosen examples of the most recent and relevant advances in the preparation and characterization of antimicrobial composites for food packaging applications. Different polymer nanocomposites with improved packaging properties are discussed along with their mechanisms of action. Further, future perspectives for antimicrobial polymeric nanomaterials are provided. This book reviews concepts and recent advances of biotechnological approaches

for livestock production. Indeed, biotechnologies have recently emerged as powerful tools for animal breeding, genetics, production, nutrition, and animal health. Applications to the production of livestock such as cattle, camel, and poultry are detailed. Chapters also present biotechnological applications for diagnostics, animal nutrition, and animal food production. The pervasiveness of technology today has brought with it a bevy of ethical questions, many of which are difficult to answer. Average consumers place themselves at risk financially, professionally, and personally by everyday activities executed on computers and

smartphones, and therein lies the responsibility of technologists and decision-makers to devise logical and ethical solutions. Exploring Ethical Problems in Today's Technological World focuses on ethical dilemmas created by today's ever-changing technologies and how these issues have affected individuals, companies, and society. The book further explores key areas such as policies, abuses, consequences, and responsibilities of different technologies and their users. Covering topics such as hackers, smart homes, privacy, and social networking, this reference work is ideal for ethicists, computer scientists,

policymakers, industry professionals, researchers, academicians, practitioners, and students studying ethics, law, security, human-computer interaction, and computer science. This book presents the key concepts and methods involved in the development of a variety of materials for lightweight constructions, including metals, alloys, polymers and composites. It provides case studies and examples to explain strategies adapted for specific applications of the materials and covers traditional to advanced manufacturing concepts of lightweight materials, including 3D printing. It also illustrates the

fundamentals and usability of biodegradable materials for achieving a greener environment, as well as possibilities of green manufacturing. Covers the fundamentals of a range of materials used for lightweight constructions Discusses fabrication and testing of materials Addresses relevant concepts of 3D printing and biodegradable materials Explores analysis of the failure mechanism of materials used in various applications Identifies the applicability of materials to a variety of situations Materials for Lightweight Constructions will suit researchers and graduate students in materials science, mechanical

engineering, construction and composites. Bio-Based Packaging Bio-Based Packaging An authoritative and up-to-date review of sustainable packaging development and applications Bio-Based Packaging explores using renewable and biodegradable materials as sustainable alternatives to non-renewable, petroleum-based packaging. This comprehensive volume surveys the properties of biopolymers, the environmental and economic impact of bio-based packaging, and new and emerging technologies that are increasing the number of potential applications of green materials in the packaging

industry. Contributions address the advantages and challenges of bio-based packaging, discuss new materials to be used for food packaging, and highlight cutting-edge research on polymers such as starch, protein, polylactic acid (PLA), pectin, nanocellulose, and their nanocomposites. In-depth yet accessible chapters provide balanced coverage of a broad range of practical topics, including life cycle assessment (LCA) of bio-based packaging products, consumer perceptions and preferences, supply chains, business strategies and markets in biodegradable food packaging, manufacturing of bio-based packaging materials, and

regulations for food packaging materials. Detailed discussions provide valuable insight into the opportunities for biopolymers in end-use sectors, the barriers to biopolymer-based concepts in the packaging market, recent advances made in the field of biopolymeric composite materials, the future of bioplastics in commercial food packaging, and more. This book: Provides deep coverage of the bio-based packaging development, characterization, regulations and environmental and socio-economic impact Contains real-world case studies of bio-based packaging applications Includes an overview of recent advances

and emerging aspects of nanotechnology for development of sustainable composites for packaging. Discusses renewable sources for packaging material and the reuse and recycling of bio-based packaging products. Bio-Based Packaging is essential reading for academics, researchers, and industry professionals working in packaging materials, renewable resources, sustainability, polymerization technology, food technology, material engineering, and related fields. For more information on the Wiley Series in Renewable Resources, visit www.wiley.com/go/rrs. Enzymes are currently used in various

industries, most commonly in food, detergents, and pharmaceuticals production. Lipases are hydrolytic enzymes that demonstrate great potential as an alternative to conventional catalysts in a number of industrial applications. A complete understanding of enzymes, and their proteins structure and environmental behavior, can greatly aid in the further development of industrial applications. Supercritical Fluids Technology in Lipase Catalyzed Processes provides basic information about enzymes, their sources, reaction kinetics, and main industrial applications. The book focuses in lipases. their

main sources, structure, and features, with an emphasis on their specificity and interfacial activity, and presents proven techniques for isolating, extracting, and purifying. Comprised of six compact chapters, this comprehensive guide introduces: Immobilization techniques and immobilized lipases that allow repeated use (which is essential from an economic point of view) Different bioreactor configurations using immobilized lipases The latest information on the available technologies in lipolytic reactions The advantages of nonaqueous media in biochemical synthesis over aqueous and solvent-free

systems Material on the use of lipases in nonaqueous media to overcome the drawbacks usually encountered with the use of conventional chemical catalysts The use of supercritical fluids (SCFs) as a green alternative reaction medium Factors affecting the physical properties of lipases in this medium and, hence, their activity and stability A case study using supercritical carbon dioxide (SC-CO₂) for biodiesel production Novel, cutting-edge technology, using immobilized enzymes to reduce the overall production cost Supercritical Fluids Technology in Lipase Catalyzed Processes outlines the main industrial applications of common

enzymes and discusses relevant challenges and innovations emerging in the field. The concept of remote sensing as a way of capturing information from an object without making contact with it has, until recently, been exclusively focused on the use of Earth observation satellites. The emergence of unmanned aerial vehicles (UAV) with Global Navigation Satellite System (GNSS) controlled navigation and sensor-carrying capabilities has increased the number of publications related to new remote sensing from much closer distances. Previous knowledge about the behavior of the Earth's surface under the incidence different

wavelengths of energy has been successfully applied to a large amount of data recorded from UAVs, thereby increasing the spatial and temporal resolution of the products obtained. More specifically, the ability of UAVs to be positioned in the air at pre-programmed coordinate points; to track flight paths; and in any case, to record the coordinates of the sensor position at the time of the shot and at the pitch, yaw, and roll angles have opened an interesting field of applications for low-altitude aerial photogrammetry, known as UAV photogrammetry. In addition, photogrammetric data processing has been improved thanks to the combination of

new algorithms, e.g., structure from motion (SfM), which solves the collinearity equations without the need for any control point, producing a cloud of points referenced to an arbitrary coordinate system and a full camera calibration, and the multi-view stereopsis (MVS) algorithm, which applies an expanding procedure of sparse set of matched keypoints in order to obtain a dense point cloud. The set of technical advances described above allows for geometric modeling of terrain surfaces with high accuracy, minimizing the need for topographic campaigns for georeferencing of such products. This Special Issue aims to compile some

applications realized thanks to the synergies established between new remote sensing from close distances and UAV photogrammetry. The COVID-19 pandemic is only the latest prompt about the importance of international health and its broad influence upon social wellbeing. The COVID-19 pandemic has highlighted the need for an informed and coordinated effort to achieve international healthcare equity. Leaders in international health must be conversant in its issues. Contemporary Issues in Global Medicine and Moving Toward International Healthcare Equity provides an understanding of contemporary issues in

international medicine. It explores the impact of civil unrest on population health and provides practical strategies for providing clinical care in low resource settings. Covering topics such as international public health, maternal health, and drug resistance, this book is an essential resource for government officials, medical officials, physicians, nurses, social workers, sociologists, epidemiologists, medical students, students and educators of higher education, researchers, and academicians. The words hydro, phobic and philic are derived from Greek and they mean water, fear and adoration respectively. These

words are being used to define the interaction of water and other materials. As an example, these words are being used in classification of liquids and solids based on their solubility in water, as well as classification of solid surfaces regarding to their wettability. A lot of surfaces in the nature have Superhydrophobic and self-cleaning properties. For example the wings of a butterfly, leaves of some plants, including cabbage and Indian Cress, have the mentioned properties. The best example is the LOTUS leaf. This book collects new developments in the science of surface energy. Bringing together the world's leading

researchers and practitioners of computational mechanics, these new volumes meet and build on the eight key challenges for research and development in computational mechanics. Researchers have recently identified eight critical research tasks facing the field of computational mechanics. These tasks have come about because it appears possible to reach a new level of mathematical modelling and numerical solution that will lead to a much deeper understanding of nature and to great improvements in engineering design. The eight tasks are: The automatic solution of mathematical models Effective numerical

schemes for fluid flows The development of an effective mesh-free numerical solution method The development of numerical procedures for multiphysics problems The development of numerical procedures for multiscale problems The modelling of uncertainties The analysis of complete life cycles of systems Education - teaching sound engineering and scientific judgement Readers of Computational Fluid and Solid Mechanics 2003 will be able to apply the combined experience of many of the world's leading researchers to their own research needs. Those in academic environments will gain a better insight into the

needs and constraints of the industries they are involved with; those in industry will gain a competitive advantage by gaining insight into the cutting edge research being carried out by colleagues in academia. Features Bridges the gap between academic researchers and practitioners in industry Outlines the eight main challenges facing Research and Design in Computational mechanics and offers new insights into the shifting the research agenda Provides a vision of how strong, basic and exciting education at university can be harmonized with life-long learning to obtain maximum value from the new powerful tools of analysis

Nanocomposites-Advanced Materials for Energy and Environmental Aspects provides a brief introduction to metal oxides. The book then discusses novel fabrication methodologies and eco-friendly methods for using a broad range of metal oxide-based nanocomposites in innovative ways. Key aspects include fundamental characteristics of environmentally sustainable fabrication of materials for solar power, power generation and the textiles industries. Commercialization and economic aspects that are currently of major significance are also discussed in detail. The book represents an important information resource

for material scientists and engineers to create the next generation of products and devices for energy and environmental applications. Metal and metal oxide-based nanocomposites are at the heart of some of the most exciting developments in the field of energy and environmental research. They have exceptional properties and are utilized in electronic and environmental sensing devices, for energy storage, electrode materials, fuel cells, membranes, and more. Covers fabrication, standard characterization and photocatalytic mechanism for a wide range of applications Includes broad ranging metal

and metal oxide-based applications covering environmental, energy, electronics, oil, gas, water treatment and sensing. Evaluates dye consumption in the textiles industries and the energy related research that will determine options for sustainable and transformational opportunities. This book offers an overview of the latest work in environmental remediation and waste management coming out of developing nations. It is split into two sections: one on state-of-the-art sustainable remediation approaches, and the other covering waste management for a cleaner environment. The ten chapters

in this book are structured as reviews that assimilate recent works in these areas; they provide a centralized resource for scholars in developing nations who are working in environmental remediation and waste management. The volume will be of interest to sustainability researchers, environmental engineers, industry managers and agricultural scientists. Materials science forms the foundation for engineers in product development because the structures, components and devices that engineers design are limited by the properties of the materials that are available and the techniques that can be used for fabrication. Materials

science mostly focuses on the basic study of materials, which includes basic mathematical formulae and also foundation physics of materials. Materials engineering on the other hand concentrates on the development of new materials for industrial and user applications. Materials engineering is an important discipline of engineering that has assisted other technologies to improve the variety of products being produced globally. This science has improved the characteristics of existing materials and had also contributed to produce materials with improved properties. The purpose of materials engineering is to

obtain knowledge about the materials so that alternate materials with the desired characteristics may be produced. The basic materials engineering relate the requisite properties of the materials with the structure of atoms in that material. The science of materials engineering examines the connection between the structures of materials at molecular scales and their macroscopic characteristics. The materials engineering is a broad based science that includes essentials chemistry, physics, mechanical and civil engineering. Due to the advancement of the nanotechnology, the science of materials engineering has

obtained significant importance in recent years. Advances in Probiotics: Microorganisms in Food and Health highlights recent advances in probiotic microorganisms, commercial probiotics, safety aspects of probiotics, preparation and commercialization, microbiome therapy for diseases and disorders, and next generation probiotics. This is a comprehensive resource of developments of new formulations and products for probiotic and prebiotic food with focus on the microorganisms to enable effective probiotic delivery. The book deliberates contemporary trends and challenges, risks, limitations in probiotic and

prebiotic food to deliver an understanding not only for research development purposes but also to benefit further standardize industrial requirements and other techno-functional traits of probiotics. At present there is no solitary volume to describe the probiotics and prebiotics properties, Advances in Probiotics: Microorganisms in Food and Health provides novel information to fill the overall gap in the market. It presents the most current information on probiotic and prebiotics for the food industry. This book is a valuable resource for academicians, researchers, food industrialists, and entrepreneurs. Presents a

simulated gastrointestinal system to analyze the probiotics effects on gut microbiome for learning purpose Includes research information on Next Generation Probiotics to foster new formulations Provides comprehensive information on probiotic microorganism behavior for more accurate analysis Discusses the potential of probiotic and prebiotic foods in preventing disease

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