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Safety of Genetically Engineered Foods Springer

The ocean covers approximately 71% of the Earth's surface, 90% of the biosphere and contains 97% of Earth's water. The Synthetic Aperture Radar (SAR) can image the ocean surface in all weather conditions and day or night. SAR remote sensing on ocean and coastal monitoring has become a research hotspot in geoscience and remote sensing. This book--Progress in SAR

Oceanography--provides an update of the current state of the science on ocean remote sensing with SAR. Overall, the book

presents a variety of marine applications, such as, oceanic surface and internal waves, wind, bathymetry, oil spill, coastline and intertidal zone classification, ship and other man-made objects' detection, as well as remotely sensed data assimilation. The book is aimed at a wide audience, ranging from graduate students, university teachers and working scientists to policy makers and managers. Efforts have been made to highlight general principles as well as the state-of-the-art technologies in the field of SAR Oceanography.

[Handbook of Waste Management and Co-Product Recovery in Food Processing](#) MDPI

These three volumes deal with the diseases of primarily cultivated annual edible oilseeds, i.e., peanut (groundnut), rapeseed-mustard, sesame, sunflower, safflower, and nigerseed. It is reliably believed that this book will be of great help not only to students, reseachers, and teachers but also to agricultural extension workers, field workers, seed growers, and seed crop inspectors, and subsequently to the farmers, to achieve the over-all objective of increase in oilseed crop yields throughout the world.

The Dynamics of Political Communication John

Wiley & Sons

Winner in its first edition of the Best New Undergraduate Textbook by the Professional and Scholarly Publishing Division of the American Association of Publishers (AAP), Kosky, et al is the first text offering an introduction to the major engineering fields, and the engineering design process, with an interdisciplinary case study approach. It introduces the fundamental physical, chemical and material bases for all engineering work and presents the engineering design process using examples and hands-on projects. Organized in two parts to cover both the concepts and practice of engineering: Part I, Minds On, introduces the fundamental physical, chemical and material bases for all engineering work while Part II, Hands On, provides opportunity to do design projects An Engineering Ethics Decision Matrix is introduced in Chapter 1 and used throughout the book to pose ethical challenges and explore ethical decision-making in an engineering context Lists of "Top Engineering Achievements" and "Top Engineering Challenges" help put the

material in context and show engineering as a vibrant discipline involved in solving societal problems New to this edition: Additional discussions on what engineers do, and the distinctions between engineers, technicians, and managers (Chapter 1) New coverage of Renewable Energy and Environmental Engineering helps emphasize the emerging interest in Sustainable Engineering New discussions of Six Sigma in the Design section, and expanded material on writing technical reports Re-organized and updated chapters in Part I to more closely align with specific engineering disciplines new end of chapter exercises throughout the book

Ageing and Nutrition through Lifespan Springer

All ruminants are dependent on the microorganisms that live in their forestomach - the rumen - to break down ingested feed constituents into a form that the host animal can utilize. Protozoa are part of this complex ruminal population and are essential for the nutritional well-being and productivity of the host ruminant. Over 30 different genera (nearly 300 species) of protozoa from the rumen ecosystem have been described since their initial discovery nearly 150 years ago. This book brings together, for the first time, the available information on these protozoa. It comprehensively describes the characteristic anatomical features of value for their identification and includes detailed sections on techniques and methodologies for the isolation and cultivation of these fastidious, oxygen-sensitive microorganisms. Their occurrence, biochemistry, physiology, and role in the ruminal

ecosystem are fully reviewed. Particular emphasis is given to potential improvement of the nutrition and productivity of the host ruminant through manipulation of the protozoal population and its activities.

Neonatal Skin Springer Science & Business Media

Biochemistry: The Chemical Reactions of Living Cells is a well-integrated, up-to-date reference for basic biochemistry, associated chemistry, and underlying biological phenomena.

Biochemistry is a comprehensive account of the chemical basis of life, describing the amazingly complex structures of the compounds that make up cells, the forces that hold them together, and the chemical reactions that allow for recognition, signaling, and movement. This book contains information on the human body, its genome, and the action of muscles, eyes, and the brain. It also features: thousands of literature references that provide introduction to current research as well as historical background; twice the number of chapters of the first edition; and each chapter contains boxes of information on topics of general interest. -- Publisher description.

Nutrient Requirements of Nonhuman Primates CRC Press

Handbook of Microalgal Culture is truly a landmark publication, drawing on some 50 years of worldwide experience in microalgal mass culture. This important book comprises comprehensive reviews of the current available information on microalgal culture, written by 40 contributing authors from around the globe. The book is divided into four parts, with Part I detailing biological and environmental aspects of microalgae with reference to microalgal biotechnology and Part II looking in depth at major theories and

techniques of mass cultivation. Part III comprises chapters on the economic applications of microalgae, including coverage of industrial production, the use of microalgae in human and animal nutrition and in aquaculture, in nitrogen fixation, hydrogen and methane production, and in bioremediation of polluted water. Finally, Part IV looks at new frontiers and includes chapters on genetic engineering, microalgae as platforms for recombinant proteins, bioactive chemicals, heterotrophic production, microalgae as gene-delivery systems for expressing mosquito-cidal toxins and the enhancement of marine productivity for climate stabilization and food security. Handbook of Microalgal Culture is an essential purchase for all phycologists and also those researching aquatic systems, aquaculture and plant sciences. There is also much of great use to researchers and those involved in product formulation within pharmaceutical, nutrition and food companies. Libraries in all universities and research establishments teaching and researching in chemistry, biological and pharmaceutical sciences, food sciences and nutrition, and aquaculture will need copies of this book on their shelves. Amos Richmond is at the Blaustein Institute for Desert Research, Ben-Gurion University of the Negev, Israel.

Antibody Engineering John Wiley & Sons

...an ideal information source for those involved in

managing waste and recovering waste for use in products to produce revenue... (Food Science and Technology - review of Volume 1) This is a most welcome addition to the literature, likely to be essential study material for both technologists and process engineers. (The Chemical Engineer - review of Volume 1) Food processors are under pressure, both from consumers and legislation, to reduce the amount of waste they produce and to consume water and energy more efficiently. Handbook of waste management and co-product recovery in food processing provides essential information about the major issues and technologies involved in waste co-product valorisation, methods to reduce water and energy consumption, waste reduction in particular food industry sectors and end waste management. Opening chapters in Part one of Volume 2 cover economic and legislative drivers for waste management and co-product recovery. Part two discusses life cycle analysis and closed-loop production systems to minimise environmental impacts in food production. It also includes chapters on water and energy use as well as sustainable packaging. Part three reviews methods for exploiting co-products as food and feed ingredients, whilst the final part of the book discusses techniques for non-food exploitation of co-products from food processing. Provides essential information about the major issues and technologies involved in waste product valorisation Examines methods to reduce water and energy consumption in particular food industry sectors Discusses the economic and legislative drivers for waste management and co-product recovery

Exploring Engineering CRC Press

The Prokaryotes is a comprehensive, multi-authored, peer reviewed reference work on Bacteria and Archaea. This fourth edition of The Prokaryotes is organized to cover all taxonomic diversity, using the family level to delineate chapters. Different from other resources, this new Springer product includes not only taxonomy, but also prokaryotic biology and technology of taxa in a broad context. Technological aspects highlight the usefulness of prokaryotes in processes and products, including biocontrol agents and as genetics tools. The content of the expanded fourth edition is divided into two parts: Part 1 contains review chapters dealing with the most important general concepts in molecular, applied and general prokaryote biology; Part 2 describes the known properties of specific taxonomic groups. Two completely new sections have been added to Part 1: bacterial communities and human bacteriology. The bacterial communities section reflects the growing realization that studies on pure cultures of bacteria have led to an incomplete picture of the microbial world for two fundamental reasons: the vast majority of bacteria in soil, water and associated with biological tissues are currently not culturable, and that an understanding of microbial ecology requires knowledge on how different bacterial species interact with each other in their natural environment. The new

section on human microbiology deals with bacteria associated with healthy humans and bacterial pathogenesis. Each of the major human diseases caused by bacteria is reviewed, from identifying the pathogens by classical clinical and non-culturing techniques to the biochemical mechanisms of the disease process. The 4th edition of *The Prokaryotes* is the most complete resource on the biology of prokaryotes.

An Introduction to the Mechanical Properties of Solid Polymers National Academies Press
Population is ageing at an unprecedented speed globally. As concept, ageing is considered a continuous process starting from birth and is accompanied by various physiological changes and a number of chronic diseases that affect health and quality of life. Ageing as a continuous process is depending on life course exposures to health risks, lifestyle and nutrition, socioeconomic background, and other factors. There is considerable interest among scientists regarding the direct and indirect effect of nutrition in optimal ageing. Nutrition has a beneficial effect in a variety of chronic disease that impact the process of ageing. Given the importance of this issue, the journal *Nutrients* is planning a Special Issue on “Ageing and Nutrition through Lifespan” with the aim of providing a source for accurate, up-to-date scientific information on this topic. We invite you and

your co-workers to consider submission of your original research findings or a review article on the topic. Manuscripts should focus on the direct impact of specific food components, dietary patterns, energy intake, macro-, micro- nutrients, alcohol intake, food insecurity as well as malnourishment and appetite to the ageing process (healthy, active, successful ageing, frailty and other similar indices) across lifespan. In a similar way, we also welcome manuscripts that focus on the indirect effect of nutrition to the ageing process throughout the pathway of chronic disease (i.e., obesity, diabetes, depression and mental diseases).

Handbook of Microalgal Culture Karger Medical and Scientific Publishers

Provides a comprehensive introduction to the mechanical behaviour of solid polymers. Extensively revised and updated throughout, the second edition now includes new material on mechanical relaxations and anisotropy, composites modelling, non-linear viscoelasticity, yield behaviour and fracture of tough polymers. The accessible approach of the book has been retained with each chapter designed to be self contained and the theory and applications of the subject carefully introduced where appropriate. The latest developments in the field are included alongside worked examples, mathematical appendices and an extensive reference. Fully revised and updated throughout to include all the latest developments in the field
Worked examples at the end of the chapter An invaluable resource for students of materials science, chemistry, physics or engineering studying polymer science

[New Cosmetic Science Springer](#)

Presenting the most appropriate cleansing techniques and astringent selection for proper neonatal care, the second edition of this text should help practitioners and researchers understand the effects of accidental percutaneous absorption in the newborn and therapeutic strategies for facilitating epidermal barrier development in the extremely low b

Mandell, Douglas and Bennett ' s Infectious Disease Essentials E-Book CRC Press

The field of transition metal catalysis has experienced incredible growth during the past decade. The reasons for this are obvious when one considers the world's energy problems and the need for new and less energy demanding syntheses of important chemicals.

Heterogeneous catalysis has played a major industrial role; however, such reactions are generally not selective and are exceedingly difficult to study. Homogeneous catalysis suffers from on-site engineering difficulties; however, such reactions usually provide the desired selectivity. For example, Monsanto's synthesis of optically-active amino acids employs a chiral homogeneous rhodium diphosphine catalyst. Industrial uses of homogeneous catalyst systems are increasing. It is not by accident that many homogeneous catalysts contain tertiary phosphine ligands. These ligands possess the correct steric and electronic properties that are necessary for catalytic reactivity and selectivity. This point will be emphasized throughout the book. Thus the stage is set for a comprehensive treatment of the many

ways in which phosphine catalyst systems can be designed, synthesized, and studied.

The Rumen Protozoa IGI Global
Assists policymakers in evaluating the appropriate scientific methods for detecting unintended changes in food and assessing the potential for adverse health effects from genetically modified products. In this book, the committee recommended that greater scrutiny should be given to foods containing new compounds or unusual amounts of naturally occurring substances, regardless of the method used to create them. The book offers a framework to guide federal agencies in selecting the route of safety assessment. It identifies and recommends several pre- and post-market approaches to guide the assessment of unintended compositional changes that could result from genetically modified foods and research avenues to fill the knowledge gaps.

Handbook of Food Engineering W. W. Norton & Company
The lentil was one of the first foods ever to have been cultivated. This book presents the most comprehensive and up-to-date review of research on lentil production, biotic and abiotic stress management, quality seed production, storage techniques and lentil growing around the world. This book will be of great value to legume breeders, scientists, nutritionists, academic researchers, graduate students, farmers, traders and consumers in the developed and the developing world.

Nutritional Care of Preterm Infants CRC Press
This new release presents the wealth of information

gleaned about nonhuman primates nutrition since the previous edition was published in 1978. With expanded coverage of natural dietary habits, gastrointestinal anatomy and physiology, and the nutrient needs of species that have been difficult to maintain in captivity, it explores the impact on nutrition of physiological and life-stage considerations: infancy, weaning, immune function, obesity, aging, and more. The committee also discusses issues of environmental enrichment such as opportunities for foraging. Based on the world's scientific literature and input from authoritative sources, the book provides best estimates of nutrient requirements. The volume covers requirements for energy: carbohydrates, including the role of dietary fiber; proteins and amino acids; fats and fatty acids; minerals, fat-soluble and water-soluble vitamins; and water. The book also analyzes the composition of important foods and feed ingredients and offers guidelines on feed processing and diet formulation.

Recent Advances in Microalgal Biotechnology National Academies Press

Cosmetics are the most widely applied products to the skin and include creams, lotions, gels and sprays. Their formulation, design and manufacturing ranges from large cosmetic houses to small private companies. This book covers the current science in the formulations of cosmetics applied to the skin. It includes basic formulation, skin science, advanced formulation, and cosmetic product development, including both descriptive and mechanistic content with an emphasis on practical aspects. Key Features: Covers cosmetic

products/formulation from theory to practice Includes case studies to illustrate real-life formulation development and problem solving Offers a practical, user-friendly approach, relying on the work of recognized experts in the field Provides insights into the future directions in cosmetic product development Presents basic formulation, skin science, advanced formulation and cosmetic product development

Biochemistry CRC Press

Carotenoids are of great interest due to their essential biological functions in both plants and animals. However, the properties and functions of carotenoids in natural systems are surprisingly complex. With an emphasis on the chemical aspects of these compounds, Carotenoids: Physical, Chemical, and Biological Functions and Properties presents a broad overview and recent developments with respect to understanding carotenoid structure, electronic and photochemical properties, and the use of novel analytical methods in the detection and characterization of carotenoids and their actions. The text also explores LC/MS and LC/MS/MS techniques as well as new applications of PCR and molecular biology methodologies.

Homogeneous Catalysis with Metal Phosphine Complexes Handbook of Food Engineering

Phytochemicals are plant derived chemicals which may bestow health benefits when consumed, whether medicinally or as part of a balanced diet. Given that plant foods are a major

component of most diets worldwide, it is unsurprising that these foods represent the greatest source of phytochemicals for most people. Yet it is only relatively recently that due recognition has been given to the importance of phytochemicals in maintaining our health. New evidence for the role of specific plant food phytochemicals in protecting against the onset of diseases such as cancers and heart disease is continually being put forward. The increasing awareness of consumers of the link between diet and health has exponentially increased the number of scientific studies into the biological effects of these substances. The Handbook of Plant Food Phytochemicals provides a comprehensive overview of the occurrence, significance and factors affecting phytochemicals in plant foods. A key objective of the book is to critically evaluate these aspects. Evaluation of the evidence for and against the quantifiable health benefits being imparted as expressed in terms of the reduction in the risk of disease conferred through the consumption of foods that are rich in phytochemicals. With world-leading editors and contributors, the Handbook of Plant Food Phytochemicals is an invaluable, cutting-edge resource for food scientists, nutritionists and plant biochemists. It covers the processing techniques aimed at the production of phytochemical-rich foods which can have a role in disease prevention, making it ideal for both the food industry and those who are researching the health benefits of particular foods. Lecturers and advanced students will find it a helpful and readable guide to a constantly expanding subject area.

Introduction to Programming Using Python BoD – Books on Demand

This volume focuses on the modulation of biological membranes by specific biophysical properties. The readers are introduced to emerging biophysical

approaches that mimic specific states (like membrane lipid asymmetry, membrane curvature, lipid flip-flop, lipid phase separation) that are relevant to the functioning of biological membranes. The first chapter describes innovative methods to mimic the prevailing asymmetry in biological membranes by forming asymmetrical membranes made of monolayers with different compositions. One of the chapters illustrates how physical parameters, like curvature and elasticity, can affect and modulate the interactions between lipids and proteins. This volume also describes the sensitivity of certain ion channels to mechanical forces and it presents an analysis of how cell shape is determined by both the cytoskeleton and the lipid domains in the membrane. The last chapter provides evidence that liposomes can be used as a minimal cellular model to reconstitute processes related to the origin of life. Each topic covered in this volume is presented by leading experts in the field who are able to present clear, authoritative and up-to-date reviews. The novelty of the methods proposed and their potential for a deeper molecular description of membrane functioning are particularly relevant experts in the areas of biochemistry, biophysics and cell biology, while also presenting clear and thorough introductions, making the material suitable for students in these fields as well.

Ocean Remote Sensing with Synthetic Aperture Radar John Wiley & Sons

Brought to you by the expert editor team from Principles and Practice of Infectious Diseases, this brand-new handbook provides a digestible summary of the 241 disease-oriented

chapters contained within the parent text. Boasting an exceptionally templated design with relevant tables and illustrations, it distills the essential, up-to-date, practical information available in infectious disease. This high-yield manual-style reference will prove useful for a wide variety of practitioners looking for quick, practical, and current infectious disease information. Provides a digestible summary of the 241 disease-oriented chapters contained within Principles and Practice of Infectious Diseases, 8th Edition (ISBN: 978-1-4557-4801-3). Covers hot topics in infectious disease, such as Hepatitis B and C, Influenza, Measles, Papillomavirus, HIV, MERS, and C. difficile. Templated design includes relevant tables and illustrations. Ideal for the non-infectious disease specialist, including primary care physicians, physician assistants, nurse practitioners, students, residents, pharmacists, emergency physicians, and urgent care physicians.