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ICES Zooplankton Methodology Manual Elsevier The term "zooplankton" describes the community of floating, often microscopic, animals that inhabit aquatic environments. Being near the base of the food chain, they serve as food for larger animals, such as fish. The ICES (International Council for the Exploration of the Sea) Zooplankton Methodology Manual provides comprehensive coverage of modern techniques in zooplankton ecology written by a group of international experts. Chapters include sampling, acoustic and optical methods, estimation of feeding, growth, reproduction and metabolism, and up-to-date treatment of population genetics and modeling. This book will be a key reference work for marine scientists throughout the world. Sampling and experimental design Collecting zooplankton Techniques for assessing biomass and abundance Protozooplankton enumeration and biomass estimation New optical and acoustic techniques for estimating zooplankton biomass and abundance Methods for measuring zooplankton feeding, growth, reproduction and metabolism Population genetic analysis of zooplankton Modelling zooplankton dynamics This unique and comprehensive reference work will be essential reading for marine and freshwater research scientists and graduates entering the field. **Moody's International Manual Titration in Non-aqueous Media PbZn 2020: 9th International Symposium on Lead and Zinc Processing** Springer Nature Established in 1970, the PbZn symposium series is considered the leading international technical forum for the lead and zinc processing industries. The PbZn 2020 volume addresses all aspects of current processing technologies for primary and secondary lead and zinc, as well as emerging technologies for both metals. **Catalysis for Global Development. Contributions Around the Iberoamerican Federation of Catalysis** Adequate quality of life and well-being of modern societies is only achievable with sustainable manufacturing processes that efficiently use raw materials, eliminate waste, and avoid the use of hazardous materials. All this is hardly conceivable without catalysis. In a world concerned with the exploitation of natural resources, catalysis can offer direct synthesis routes that maximize resource efficiency. The Iberoamerican society is far too significant and far too involved in global development, owing to its natural richness of resources, not to have an essential role in current developments and future directions. Catalysis, in the Iberoamerican academic and industrial communities, is recognized as a relevant scientific discipline that supports several strategic industrial sectors through the manufacturing of products and materials, and the operationalization of processes to produce energy and other utilities. As a reflection of this, once every two years the Iberoamerican Congress on Catalysis takes place to share and discuss the state-of-the-art of this discipline with the Federation of Iberoamerican Catalysis Societies. This book collected sixteen outstanding contributions, stemming from this exceptional event-one which will undoubtedly mark a turning point and could be a source of inspiration to all those involved in catalysis, particularly the young generation of competent researchers taking their first steps in this incredibly complex and beautiful discipline. **Materials Characterization** Springer This book covers novel research results for process and techniques of materials characterization for a wide range of materials. The authors provide a comprehensive overview of the aspects of structural and chemical characterization of these materials. The articles contained in this book covers state of the art and experimental techniques commonly used in modern materials characterization. The book includes theoretical models and numerous illustrations of structural and chemical characterization properties. **Shallow Lakes in a Changing World Proceedings of the 5th International Symposium on Shallow Lakes, held at Dalfsen, The Netherlands, 5-9 June 2005** Springer Science & Business Media This volume comprises the proceedings of the 5th International Symposium on Shallow Lakes, held at Dalfsen, The Netherlands, in June 2005. The theme of the symposium was Shallow Lakes in a Changing World, and it dealt with water-quality issues, such as changes in lake limnology, especially those driven by eutrophication and pollution, increased nutrient loading and productivity, perennial blooms of cyanobacteria and loss of biodiversity. **Fresh Market Caneberry Production Manual** UCANR Publications **New Cosmetic Science** Elsevier Cosmetic science covers the fields from natural sciences to human and social sciences, and is an important interdisciplinary element in various scientific disciplines. New Cosmetic Science is a completely updated comprehensive review of its 35 year old counterpart Cosmetic Science. New Cosmetic Science has been written to give as many people as possible a better understanding of the subject, from scientists and technologists specializing in cosmetic research and manufacturing, to students of cosmetic science, and people with a wide range of interests concerning cosmetics. The relationship between the various disciplines comprising cosmetic science, and cosmetics, is described in Part I. In addition to discussing the safety of cosmetics, the "Usefulness of Cosmetics", rapidly becoming an important theme, is described using research examples. The latest findings on cosmetic stability are presented, as are databases, books and magazines, increasingly used by cosmetic scientists. Part II deals with cosmetics from a usage viewpoint, including skin care cosmetics, makeup cosmetics, hair care cosmetics, fragrances, body cosmetics, and oral care cosmetics. Oral care cosmetics and body cosmetics are presented with product performance, types, main components, prescriptions and manufacturing methods described for each item. This excellent volume enlightens the reader not only on current cosmetics and usage, but indicates future progress enlarging the beneficial effects of cosmetics. Products with better pharmaceutical properties (cosmeceuticals), working both physically and psychologically, are also highlighted. **Seafood research from fish to dish Quality, safety and processing of wild and farmed seafood** Wageningen Academic Publishers In this book, scientists from various disciplines address the advances in seafood research with respect to quality, safety, consumer's demands and processing of wild and farmed fish. The nutritional properties of marine lipids and lipid oxidation from model systems to seafood are presented. Several contributions on the effects of natural anti-oxidants to prevent oxidation are also included. Effects of dietary factors on muscle tissue quality, pre-rigor processing and brining of farmed cod are covered. The development of rigor mortis and the quality of muscle in relation to commercial and experimental slaughter techniques are also discussed. Consumer's knowledge, perception and need for information about seafood are discussed. Topics such as shelf life and microbial quality of seafood are covered in a range of contributions. Inactivation of micro organisms or biopreservation of seafood are included. Attention is paid to the development of the Quality Index Method for the evaluation of the quality of fresh fish and products. The characterisation and the quality of processed by-products are also presented. The presence of trace elements and organic contaminants in variety of seafood products is highlighted. Finally, several contributions regarding advanced methodologies to determine the quality of seafood are presented. This book will be of interest to anybody concerned with quality and safety of fish throughout the entire chain from catch to consumer. **Ion-Exchange Membrane Separation Processes** Elsevier Today, membranes and membrane processes are used as efficient tools for the separation of liquid mixtures or gases in the chemical and biomedical industry, in water desalination and wastewater purification. Despite the fact that various membrane processes, like reverse osmosis, are described in great detail in a number of books, processes involving ion-exchange membranes are only described in a fragmented way in scientific journals and patents; even though large industrial applications, like electrodialysis, have been around for over half a century. Therefore, this book is emphasizing on the most relevant aspects of ion-exchange membranes. This book provides a comprehensive overview of ion-exchange membrane separation processes covering the fundamentals as well as recent developments of the different products and processes and their applications. The audience for this book is heterogeneous, as it includes plant managers and process engineers as well as research scientists and graduate students. The separate chapters are based on different topics. The first chapter describes the relevant Electromembrane processes in a general overview. The second chapter explains thermodynamic and physicochemical fundamentals. The third chapter gives information about ion-exchange membrane preparation techniques, while the fourth and fifth chapter discusses the processes as unit operations giving examples for the design of specific plants. First work on the principles and applications of electrodialysis and related separation processes Presently no other comprehensive work that can serve as both reference work and text book is available Book is suited for teaching students and as source for detailed information **Water Resources in Arid Lands: Management and Sustainability** Springer Nature This book presents the most recent innovative studies in the field of water resources for arid areas to move towards more sustainable management of the resources. It gathers outstanding contributions presented at the 2nd International Water Conference on Water Resources in Arid Areas (IWC), which was held online (Muscat, Oman) in November 2020. Papers discuss challenges and solutions to alleviate water resource scarcity in arid areas, including water resources management, the introduction of modern irrigation systems, natural groundwater recharge, construction of dams for artificial recharge, use of treated wastewater, and desalination technologies. As such, the book provides a platform for the exchange of recent advances in water resources research, which are essential to improving the critical water situation and to move towards more sustainable management of water resources. **Environmental Analysis by Electrochemical Sensors and Biosensors Applications** Springer This book discusses in detail the analysis and monitoring of the most important analytes in the environmental field. It also reviews the implementation, realization and application of sensor designs mentioned in the first volume of this set, dividing the coverage into global parameters, sensors of organics and sensors of inorganics. **Biogeochemistry of Trace Elements in Coal and Coal Combustion Byproducts** Springer Science & Business Media The research papers in this book present current knowledge of the sources, pathways, behavior, and effects of trace elements in soils, waters, plants, and animals. It is of interest to a variety of readers, including public health and environmental professionals, consultants, and academicians. **Proceedings of the Ocean Drilling Program Initial report Clinical Applications of Capillary Electrophoresis Methods and Protocols** Humana Press Capillary electrophoresis (CE) is a powerful and rapid tool for performing complex analyses of a number of different molecular species ranging from small inorganic ions to large nucleic acid fragments and proteins. It is quickly becoming established as a useful tool in clinical medicine due to its consumption of minute samples (less than a microlitre), low reagent costs, and extreme sensitivity, depending upon the source of detection used. Clinical Applications of Capillary Electrophoresis aims to give an in-depth manual of CE applications in several important areas of clinical science. Divided into seven sections, this volume provides a brief overview of how CE has been applied in clinical settings, followed by several chapters on CE analysis of important diagnostic molecules and biofluids, as well as descriptions of applications in clinical chemistry, hematology, bacteriology, virology, disease-associated biomarker discovery, immunology and genetic analysis. Written in the successful Methods in Molecular Biology™ series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible protocols, and notes on troubleshooting and avoiding known pitfalls. Authoritative and easily accessible, Clinical Applications of Capillary Electrophoresis seeks to serve as a valuable source of information not only for clinical pathologists, but also clinical scientists who wish to apply the technique to diagnosis and research. **Manual of Commercial Methods in Clinical Microbiology** John Wiley & Sons The Manual of Commercial Methods in Clinical Microbiology 2nd Edition, International Edition reviews in detail the current state of the art in each of the disciplines of clinical microbiology, and reviews the sensitivities, specificities and predictive values, and subsequently the effectiveness, of commercially available methods - both manual and automated. This text allows the user to easily summarize the available methods in any particular field, or for a specific pathogen - for example, what to use for an Influenza test, a Legionella test, or what instrument to use for identification or for an antibiotic susceptibility test. The Manual of Commercial Methods in Clinical Microbiology, 2nd Edition, International Edition presents a wealth of relevant information to clinical pathologists,

directors and supervisors of clinical microbiology, infectious disease physicians, point-of-care laboratories, professionals using industrial applications of diagnostic microbiology and other healthcare providers. The content will allow professionals to analyze all commercially available methods to determine which works best in their particular laboratory, hospital, clinic, or setting. Updated to appeal to an international audience, *The Manual of Commercial Methods in Clinical Microbiology, 2nd Edition, International Edition* is an invaluable reference to those in the health science and medical fields. **The Biological Chemistry of Marine Copepods** Oxford University Press, USA Biological investigations of marine copepods have recently involved the use of chemical and biochemical techniques with increased frequency. The contributors to this collection of critical reviews provide a survey of the research projects already completed and draw attention to problems requiring further investigation. Beginning with a summary of basic chemical composition and energy content, subsequent chapters discuss lipids, enzymes involved in vital functions, and solid excretion's effects on the nitrogen and phosphorous cycles in the sea. Designed to meet a wide range of needs, this valuable sourcebook is the first to assemble and review the extensive literature on studies of this kind for marine biologists and ecologists, zoologists, comparative biochemists, oceanographers, insect physiologists, and geochemists. **Environmental Conservation, Clean Water, Air & Soil (CleanWAS)** IWA Publishing As we embark into the 21st century, we need to address new challenges ranging from population growth, climate change, and depletion of natural resources to providing better health care, food security and peace to humankind, while at the same time protecting natural ecosystems that provide the services which allow life to flourish on Earth. To meet those challenges, profound changes are required in the way that societies conduct their everyday affairs, ways that will lead to better preservation, protection and sustainable management of natural resources with long lasting impacts. The aim of CleanWAS 2016 is to provide productive opportunities for academics and practitioners from interdisciplinary fields of Environmental Sciences to meet, share and bring expertise and ideas in related disciplines. The CleanWAS conference was first organized in the year 2012. It is an annual event organised by the International Water, Air and Soil Conservation society (INWASCON) and is supported by various Malaysian (UKM, UMS, UIAM) and Chinese universities (CUG, NKU, SYSU). **Recent Progress in Slow Sand and Alternative Biofiltration Processes** IWA Publishing Slow sand filtration is typically cited as being the first "engineered" process in drinking-water treatment. Proven modifications to the conventional slow sand filtration process, the awareness of induced biological activity in riverbank filtration systems, and the growth of oxidant-induced biological removals in more rapid-rate filters (e.g. biological activated carbon) demonstrate the renaissance of biofiltration as a treatment process that remains viable for both small, rural communities and major cities. Biofiltration is expected to become even more common in the future as efforts intensify to decrease the presence of disease-causing microorganisms and disinfection by-products in drinking water, to minimize microbial regrowth potential in distribution systems, and where operator skill levels are emphasized. *Recent Progress in Slow Sand and Alternative Biofiltration Processes* provides a state-of-the-art assessment on a variety of biofiltration systems from studies conducted around the world. The authors collectively represent a perspective from 23 countries and include academics, biofiltration system users, designers, and manufacturers. It provides an up-to-date perspective on the physical, chemical, biological, and operational factors affecting the performance of slow sand filtration (SSF), riverbank filtration (RBF), soil-aquifer treatment (SAT), and biological activated carbon (BAC) processes. The main themes are: comparable overviews of biofiltration systems; slow sand filtration process behavior, treatment performance and process developments; and alternative biofiltration process behaviors, treatment performances, and process developments. **Water Quality Assessments for Urban Water Environment** Mdpi AG This special issue entitled "Water Quality Assessments for Urban Water Environment," strives to highlight the status quo of water environment, opportunities and challenges for their sustainable management in lieu of rapid global changes (land use change, climate change, population growth, change in socio-economic dimension, urbanization etc.), in the urban space particularly in developing nations around the world. It also highlights the effect of COVID19 pandemic on water resources and way forward to minimize the risk of spreading health risk associated with wastewater management. Considering the complex nature of the urban water security, it highlights the importance of emerging approaches like socio-hydrology, landscape ecology, regional-circular-ecological sphere etc., which presents a perfect combination of hard (infrastructure) and soft (numerical simulations, spatial technologies, participatory approaches, indigenous knowledge) measures, as the potential solutions to manage this precious water resource in coming future. Finally, what is the way forward to enhance science-policy interface in a better way to achieve global goals e.g., SDGs at local level in a timely manner. It provides valuable information about sustainable water resource management at the urban landscape, which is very much useful for policy-makers, decision-makers, local communities, and other relevant stakeholders. **The Biogeochemistry of Mercury in the Environment** Elsevier-North-Holland Biomedical Press **Biochemical Principles and Techniques in Neuropharmacology** Springer It is difficult to imagine an era in which there were no selective drugs for treating anxiety, depression, schizophrenia, and other mental ailments. Yet in a remarkably short time these drugs have come to occupy a position of prominence in medical practice throughout the world, and they now account for a major portion of all prescriptions. Most psychotropic drugs were discovered with little premeditation on the part of the investigator. The drugs simply "worked," often with little rationale, and psychopharmacology has been for many years an empirical discipline in search of scientific underpinnings. In the past decade, a basic science of psychopharmacology has developed and grown rapidly. Though psychotropic drugs are exceedingly "young" as drugs in medical practice go, we probably know more about their various mechanisms of action than we know about most drugs in clinical use. Advances in understanding effects of psychopharmaceuticals on the brain have been so prodigious that a new research paradigm has evolved. Instead of being concerned solely with understanding how the drugs act, many researchers now employ psychotropic drugs as tools—often the most powerful ones—to elucidate brain function. Consequently, psychopharmacology is central to neurobiology, which in turn has emerged as an important discipline, heir to the preeminent glamor of molecular biology. **The Atmospheric Radiation Measurement (ARM) Program The First 20 Years The Environmental Hazards of Toxic Metals Pollution** Frontiers Media SA **Urban Air Quality Monitoring, Modelling and Human Exposure Assessment** Springer Nature This contributed volume is primarily intended for graduate and professional audiences. The book provides a basic understanding of urban air quality issues, root causes for local and urban air pollution, monitoring and modelling techniques, assessment, and control options to manage air quality at local and urban scale. The book also offers useful information on indoor air quality and smart sensors, which are gaining much importance in current times. **Chemical Analysis Modern Instrumentation Methods and Techniques** John Wiley & Sons Completely revised and updated, *Chemical Analysis: Second Edition* is an essential introduction to a wide range of analytical techniques and instruments. Assuming little in the way of prior knowledge, this text carefully guides the reader through the more widely used and important techniques, whilst avoiding excessive technical detail. Provides a thorough introduction to a wide range of the most important and widely used instrumental techniques. Maintains a careful balance between depth and breadth of coverage. Includes examples, problems and their solutions. Includes coverage of latest developments including supercritical fluid chromatography and capillary electrophoresis. **Tracer Hydrology 97** CRC Press This collection of papers is the proceedings of the 7th International Symposium on Water Tracing in Portoroz/Slovenia from 26-31 May 1997. They address a number of topics in hydrology tracing techniques including: protection of natural resources against pollution; the use of natural and artificial tracers to help to assess contaminant transport in surface waters; and aquifer parameters and modelling. **Carbonates in Continental Settings Facies, Environments, and Processes** Elsevier This book provides an up-to-date compilation of the latest research on the petrography, facies, paleoenvironmental significance and economic aspects of continental carbonates. The overall organization of the book first emphasizes the descriptive aspects and processes operating on carbonate deposits in greatly varied settings, and then considers applications for basin analysis, as well as economic and historical aspects. This volume will be a valuable tool for graduate and postgraduate students as well as for experienced researchers. The second part (volume 62 in this series) will deal with the geochemistry, diagenesis and applications of carbonates in continental settings. Covering the greatly varied aspects of carbonate deposits from continental settings deposits. Clear and easy to follow organization. Up to date information, so readers can find references from the classic literature to the most recent research. **Effect of Mineral-Organic-Microorganism Interactions on Soil and Freshwater Environments** Springer Science & Business Media The Working Group M.O. (Interactions of soil minerals with organic components and microorganisms) (WGMO) of the International Soil Science Society (ISSS) was founded in 1990 at the 14th World Congress of Soil Science (Kyoto, Japan), with Professor P.M. Huang being the Chairman. Since then, the Working Group M.O. has served as a forum to bring together soil chemists, soil mineralogists, soil microbiologists, soil biochemists, soil physicists and environmental, ecological, and health scientists. The objective of the Working Group M.O. is to promote research, teaching, and also the exchange of technology concerning the knowledge and the impact of the interactions between minerals-organics and microorganisms on environmental quality, agricultural sustainability, and ecosystem "health". This group is first a scientific group as defined just previously, but it also intends to develop exchange and transfer between scientists and engineers. The first International Meeting organized by Professor P. M. Huang, was held in Edmonton, Canada, in August 1992, where 87 papers were presented by scientists from 20 countries. Following this meeting, a two volume book was edited by P. M. Huang, J. Berthelin, J.-M. Bollag, W. B. McGill, and A. L. Page, entitled "Environmental impact of soil component interaction" : Volume I "Natural and anthropogenic organic-volume II "Metals, other inorganic and microbial activities", and published by C.R.C. Lewis Publishers (1995). **Virus-Derived Nanoparticles for Advanced Technologies Methods and Protocols** Humana Press This volume details protocols on virus-derived nanoparticles (VNPs) for a number of different applications. Chapters guide readers through the production of VNPs derived from plant, animal and bacterial viruses, prokaryotic and eukaryotic expression systems, encapsulation of heterologous materials within VNPs, and the modification of the outer surface of VNPs and how such modified VNPs can be developed into functional entities. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, *Virus-Derived Nanoparticles for Advanced Technologies: Methods and Protocols* aims to ensure successful results in the further study of this vital field. **Waste Biorefineries: Future Energy, Green Products and Waste Treatment** Frontiers Media SA Energy recovery from waste resources holds a significant role in the sustainable waste management hierarchy to support the concept of circular economies and to mitigate the challenges of waste originated problems of sanitation, environment, and public health. Today, waste disposal to landfills is the most widely used methodology, particularly in developing countries, because of limited budgets and lack of efficient infrastructure and facilities to maintain efficient and practical global standards. As a consequence, the dump-sites or non-sanitary landfills have become the significant sources of greenhouse gases emissions, soil and water contamination, unpleasant odors, leachate, and disease spreading vectors, flies, and rodents. However, waste can be utilized to produce a range of potential products such as energy, fuels and value-added products under waste biorefineries. A holistic and quantitative view, such as waste biorefinery, on waste management must be linked to the actual country, taking into account its socio-economic situation, local waste sources, and composition, as well as the available markets for the recovered energy and products. Therefore, it is critical to understand that solutions cannot be just copied from one region to the others. In fact, all waste handling, transportation, and treatment can represent a burden to the cities' environment and macro and micro economics, except for the benefits obtained from recovered materials and energy. Equally significant is a clear and quantitative understanding of the industrial, and public potential of utilizing recovered materials and energy in the markets as these can be reached without exacerbating the environmental issues using excessive transport. The book explores new advancements and discoveries on the development of emerging waste-to-energy technologies, practical implementation, and lessons learned from sustainable wastemanagement practices under waste biorefinery concept, which will accelerate the growth of circular economies in the world. The articles presented in this book have been written by expert researchers and academics working in institutions at different countries across the world including Germany, Greece, Japan, South Korea, China, Saudi Arabia, Pakistan, Indonesia, Malaysia, Iran, and India. The research articles have been arranged into three main subject categories: 1) Resource recovery from waste, 2) Waste to energy technologies and 3) Waste biorefineries. This book will serve as an important resource for research students, academics, industry, policy makers, and government agencies working in the field of integrated waste management, energy and resource recovery, waste to energy technologies, waste biorefineries etc. The editorial team of this book is very grateful to all the authors for their excellent contributions and making the book successful. **Basic Protocols in Encapsulation of Food Ingredients** Humana This volume provides a comprehensive introduction into methods and procedures on encapsulation of sensitive food nucleus. Chapters guide readers through different strategies to encapsulate bioactive compounds and cells. Additionally, chapters will detail methods on three major issues: the nucleus to be encapsulated, the carrier material, and the encapsulation technique. Authoritative and cutting-edge, *Basic Protocols in Encapsulation of Food Ingredients* aims to give guidance on encapsulation techniques and an understanding on tools, materials, and supplies to implement innovative approaches. **Anionic Surfactants Analytical Chemistry, Second Edition**, CRC Press "Presents the most comprehensive coverage available of the detection, isolation, identification, and estimation of all anionic surfactants in a wide variety of samples in trace and macro quantities. Features new chapters on volumetric and trace analysis, molecular and mass spectroscopy, and chromatographic processes." **Handbook of Biometrics for Forensic Science** Springer This comprehensive handbook addresses the sophisticated forensic threats and challenges that have arisen in the modern digital age, and

reviews the new computing solutions that have been proposed to tackle them. These include identity-related scenarios which cannot be solved with traditional approaches, such as attacks on security systems and the identification of abnormal/dangerous behaviors from remote cameras. Features: provides an in-depth analysis of the state of the art, together with a broad review of the available technologies and their potential applications; discusses potential future developments in the adoption of advanced technologies for the automated or semi-automated analysis of forensic traces; presents a particular focus on the acquisition and processing of data from real-world forensic cases; offers an holistic perspective, integrating work from different research institutions and combining viewpoints from both biometric technologies and forensic science. **Tropical Zooplankton** Springer Science & Business Media Our knowledge of the limnology of the waters situated, roughly, between the tropics of cancer and of capricorn, has depended for a long time on the expedition-approach, and therefore developed in a rather irregular, haphazard way, with the personal incentive of a small number of individuals as the main driving force. Things slowly started to change in the 1950s, and at an accelerating rate in the 1960s and 1970s. The IBP, and later the SCOPE and MAB programs, whatever their shortcomings are or may have been, promoted in-depth research of a small number of tropical lakes. For one thing, they showed the need for the creation of in situ limnological research institutes. When, in the 1970s, limnological research facilities or their nuclei began to appear in the tropical zones of all continents, an interesting phenomenon occurred: while most of the young native limnologists had received their training in advanced centres or courses held in the temperate (and developed) climatic zones, quite a few of their former supervisors or their associates became interested in warm lakes and rivers as well, using the new or newly expanded local institutes. We are, today, still in this phase and it is, apparently, expanding even further. Although not all experiments of this kind lead to happy marriages, a few were quite successful, and several papers contained in the present volume are hoped to reflect this. **Recent Developments in Ruminant Nutrition** Elsevier Recent Developments in Ruminant Nutrition presents papers that discuss the advancement of the different areas of ruminant nutrition. The book is comprised of 20 chapters that cover topics, such as reproduction, diet, and nutrition. The coverage of the text includes growth stimulation in ruminants; protein quantity and quality for the U.K. dairy cow; and complete-diet feeding of dairy cows. The book also covers rumen fermentation related topics, such as influence of nitrogen and carbohydrate inputs on rumen fermentation; aspects of the biochemistry of rumen fermentation and their implication in ruminant productivity; and manipulation of rumen fermentation. The text will be of great use to researchers and professionals in the animal husbandry industry. **International Complete Collection of R&D Information about Traditional Chinese Materia Medica and Biotechnology Enterprises** World Scientific The International Complete Collection of R&D Information about Traditional Chinese Materia Medica (TCMM) and Biotechnology (BT) Enterprises is designed as an informative medicinal reference directory listing of up-to-date R&D information about TCMM, medical biotechnology, and related medical equipment companies. The focus of this valuable and practical directory is on providing a comprehensive coverage of the most recent developments in scientific research, patents and major products of about 3,000 companies from 50 countries covering the five continents: Asia, Europe, America, Africa and the Oceania. The resource material and information are relevant and compulsory to practitioners and professionals in the fields of TCMM, medical biotechnology, biochemical industry and related medical instrumentation/equipment, as well as to organizational departments of the medicinal information management, intelligence, logistics and trade. The directory also opens up and serves as an important window through which biotech professionals master product information of their counterparts across the world. The directory will benefit professionals of medical health, TCMM, biotechnology and related fields, as well as academics and students, executives of research, information media staffs and translators. **Nanofiltration Membranes Synthesis, Characterization, and Applications** CRC Press Covering fabrication, characterization, and applications nanofiltration (NF) membranes, this book provides a comprehensive overview of the development of NF membrane technology over the past decade. It uniquely covers a variety of fabrication techniques, comparing the procedures of each technique to produce polymeric membranes of different morphologies. The book also discusses advances in the materials used in thin film composite (TFC) polyamide membrane fabrication and their influences on properties with respect to structural and separation characteristics. A comprehensive review on NF characterization methods and techniques is provided, assessing physical and chemical properties and separation characteristics and stability. Technical challenges in fabricating a new generation of NF membranes are also reviewed and the possible approaches to overcome the challenges are provided. The book concludes with relevant case studies on the use of NF membranes in industrial implementation of both aqueous and nonaqueous media. Details the latest progress on the fabrication techniques of asymmetric and composite NF membranes. Discusses characterization methods used in assessing membrane physical/chemical properties, separation characteristics, and performance stability. Describes the potential of advanced materials in improving properties of polyamide selective layer as well as microporous substrate. Reviews the technical challenges in fabricating a new generation of composite membrane—thin film nanocomposite (TFN) membrane—possible approaches to overcome challenges. Offers case studies on the applications of NF membranes for both aqueous and nonaqueous media. **Liquid Biphasic System Fundamentals and Applications in Bioseparation Technology** Elsevier Downstream bioprocesses have a significant role to play in the creation of a sustainable biobased economy, enabling the creation of new products and systems from the more sustainable bioprocessing of natural products. Liquid Biphasic System: Fundamentals and Applications in Bioseparation Technology explores in detail the fundamental processes and applications of this new separation system, aiding in the understanding of the basic principles of the technique and offering constructive criticisms of the latest findings. Including coverage of the background, principles, mechanisms, and applications, Liquid Biphasic System addresses how to adapt the technology for the purification of useful compounds with greater cost efficiency and greener processing. It is essential reading for bioprocess engineers, biochemical engineers, biosystem engineers, chemists, and microbiologists working in the fields of bioprocessing. Researchers, scientists, and engineers concerned with the selection and evaluation of alternative bioseparation processes will find the book particularly useful. Provides information and examples of advanced separations in a single source Includes detailed descriptions of novel bioseparation systems Covers the latest technologies related to advanced liquid-liquid separation and their applications in various industries