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This first book dedicated to the topic relates the known physiological functions of porins to their molecular structure and mechanism, as documented by various in vitro and in vivo methods, including the generation of null mutants in mice. For the first time, it brings together biophysical evidence with studies performed in a cellular context, presenting a unified picture of the fundamental importance of porins for cellular function. With 16 contributions by an interdisciplinary team of leading porin researchers, this reference is essential reading for every molecular or structural biologist with an interest in this essential protein family.

The words pronounced by Serge Kreiter during the meeting come to mind. They could record exactly the situation of Acarology in Europe and in the World: "I think that in many European countries there are very few full time acarologists. It is very rare to have new positions available . . . . And public money, from the European Community but also from national countries, is very hard to get when you want to work on mites . . . . Could two acarological associations in Europe (Eur. A. Ac. and S. I. A. L. F) work together or, better, get married?" So, the fourth symposium of the European Acarologists has not only been the occasion to have an idea on which direction the research is addressed today, but also it pointed out the difficulties of our "scientific branch". On the basis of the presentations and invited papers we had evidences of a "new" Acarology based on modern techniques and methods of investigations but also the importance, often sheltered even if of relevant value, of the "old" Acarology made on the alpha taxonomy and basic studies. So, a "new" Acarology needs the "old" one. In this context, the hope to put together the European acarologists has been coming up. This fact, of political meaning, can surely improve the acarological movement and the discussion on this point showed clearly the importance of several other activities and efforts in this direction. We hope that the meeting in Siena will represent a significative stone for the progress of Acarology.

"Third in the series on Sex differentiation in fish"--Preface.

This book is a comprehensive guide to the compositions, properties, processing, performance, and applications of nickel, cobalt, and their alloys. It includes all of the essential information contained in the ASM Handbook series, as well as new or updated coverage in many areas in the nickel, cobalt, and related industries.

The most up-to-date coverage of welding metallurgy aspects and weldability issues associated with Ni-base alloys Welding Metallurgy and Weldability of Nickel-Base Alloys describes the fundamental metallurgical principles that control the microstructure and properties of welded Ni-base alloys. It serves as a practical how-to guide that enables engineers to select the proper alloys, filler metals, heat treatments, and welding conditions to ensure that failures are avoided during

fabrication and service. Chapter coverage includes: Alloying additions, phase diagrams, and phase stability Solid-solution strengthened Ni-base alloys Precipitation strengthened Ni-base alloys Oxide dispersion strengthened alloys and nickel aluminides Repair welding of Ni-base alloys Dissimilar welding Weldability testing High-chromium alloys used in nuclear power applications With its excellent balance between the fundamentals and practical problem solving, the book serves as an ideal reference for scientists, engineers, and technicians, as well as a textbook for undergraduate and graduate courses in welding metallurgy.

The first two international conferences on Ultra-Wideband (UWB), Short-Pulse (SP) Electromagnetics were held at Polytechnic University, Brooklyn, New York in 1992 and 1994. Their purpose was to focus on advanced technologies for generating, radiating, and detecting UWB,SP signals, on mathematical methods, their propagation and scattering, and on current as well as potential future applications. The success of these two conferences led to the desirability of scheduling a third conference. Impetus was provided by the electromagnetics community and discussions led by Carl Baum and Larry Carin resulted in the suggestion that the UWB conferences be moved around, say to government laboratories such as Phillips Laboratory. Consequently the decision was made by the Permanent HPEM Committee to expand AMEREM '96 to include the Third Ultra-Wide Band, Short-Pulse (UWB,SP 3) with the Third Unexploded Ordnance Detection and Range Remediation Conference (UXO) and the HPEMINEM Conference in Albuquerque, New Mexico during the period May 27-31, 1996. Planning is now underway for EUROEM '98 in June, 1998 in Tel Aviv, Israel. Joseph Shiloh is the conference chairman. A fourth UWB,SP meeting is planned as a part of this conference and Ehud Heyman will coordinate this part of the meeting. The papers which appear in this volume, the third in the UWB,SP series, update subject areas from the earlier UWB,SP conferences. These topics include pulse generation and detection, antennas, pulse propagation, scattering theory, signal processing, broadband electronic systems, and buried targets.

From the content: Introduction Mathematical modelling Measurement Scientific explanation Context of discovery Context of justification Uncertainty of scientific knowledge Morality and moral philosophy System of values associated with science General principles of moral decision-making Research ethics Methodological and ethical issues related to experimentation Methodological and ethical issues to research information Methodological and ethical issues related to legal protection of intellectual property

Introduction and background; Exploratory data analysis and graphics; Deterministic functions for ecological modeling; Probability and stochastic distributions for ecological modeling; Stochastic simulation and power analysis; Likelihood and all that; Optimization and all that; Likelihood examples; Standard statistics revisited; Modeling variance; Dynamic models.

The Organizing Committee of the 15th International Conference on Bioactive Lipids in Cancer, Inflammation and Related Diseases

compiled a group of junior investigators to provide reviews on the topics they presented at the Puerto Vallarta Bioactive Lipids conference, as part of the book series, *Advances in Experimental Medicine and Biology (AEMB)*. The book in this series will be titled *Bioactive Lipids in Cancer, Inflammation and Related Diseases*. Topics range from all classes of lipids including prostaglandins, resolvins, spingolipids, P450-derived lipids, endocannabinoids and phospholipids. The focus includes physiology, cell biology, and structural studies in organisms from bacteria to humans and how these studies addressed the role of lipids in various disease i.e. cancer, inflammation, diabetes, obesity, cardiovascular disease and others.

Boron-based compounds have been utilized as ligands within transition metal complexes for many decades. The diversity of such compounds in terms of varying functional groups is truly exceptional. Boron compounds are of high interest due to the great potential to modify the substituents around the boron center and to produce a broad range of structural motifs. The many different ways these compounds can coordinate or interact with transition metal centers is astonishing. Examples of transition metal complexes containing boron-based ligands include scorpionates, cluster-type borane- and carboranes, borates, and phosphine-stabilized borylene ligands. This Special Issue brings together a collection of articles focusing on recent developments in the aforementioned boron-based ligands. The articles reported in this book will provide the reader with an overview of the types of boron-based ligands which are currently being researched in groups around the world.

*Molecular Spectroscopy and Quantum Dynamics*, an exciting new work edited by Professors Martin Quack and Roberto Marquardt, contains comprehensive information on the current state-of-the-art experimental and theoretical methods and techniques used to unravel ultra-fast phenomena in atoms, molecules and condensed matter, along with future perspectives on the field. Contains new insights into the dynamics and spectroscopy of electronic and nuclear motion Presents the most recent developments in the detection and interpretation of ultra-fast phenomena Includes a conversation on the importance of these phenomena for the understanding of chemical reaction kinetics and the variation of molecular structure

This excellent book systematically identifies the issues surrounding the effective linking of project management techniques and engineering applications. It is not a technical manual, nor is it procedure-led. Instead, it encourages creative learning of project engineering methodology that can be applied and modified in different situations. In short, it offers a distillation of practical 'on-the-job' experience to help project engineers perform more effectively. While this book specifically addresses process plants, the principles are applicable to other types of engineering project where multidisciplinary engineering skills are required, such as power plant and general factory construction. It focuses on the technical aspects, which typically influence the configuration of the plant as a whole, on the interface between the various disciplines involved, and the way in which work is done – the issues central to the co-ordination of the overall engineering effort. It develops an awareness of relationships with other parties – clients, suppliers, package contractors, and construction managers – and of how the structure and management of these relationships impact directly on the performance of the project engineer. Readers will welcome the author's straightforward approach in tackling sensitive issues head on. COMPLETE CONTENTS Introduction A process plant A project and its management A brief overview

The engineering work and its management The project's industrial environment The commercial environment The contracting environment The economic environment Studies and proposals Plant layout and modelling Value engineering and plant optimization Hazards, loss, and safety Specification, selection and purchase Fluid transport Bulk solids transport Slurries and two-phase transport Hydraulic design and plant drainage Observations on multidiscipline engineering Detail design and drafting The organization of work Construction Construction contracts Commissioning Communication Change and chaos Fast-track projects Advanced information management Project strategy development Key issues summary

Researches and investigations involving the theory and applications of integral transforms and operational calculus are remarkably wide-spread in many diverse areas of the mathematical, physical, chemical, engineering and statistical sciences. This Special Issue contains a total of 36 carefully-selected and peer-reviewed articles which are authored by established researchers from many countries. Included in this Special Issue are review, expository and original research articles dealing with the recent advances on the topics of integral transforms and operational calculus as well as their multidisciplinary applications

Non-Destructive Testing of Welds. Acceptance Levels for Radiographic Testing. Steel, Nickel, Titanium and Their Alloys The field of isotope effects has expanded exponentially in the last decade, and researchers are finding isotopes increasingly useful in their studies. Bringing literature on the subject up to date, Isotope Effects in Chemistry and Biology covers current principles, methods, and a broad range of applications of isotope effects in the physical, biolo

This comprehensive book covers the five major NDT methods - liquid penetrants, eddy currents, magnetic particles, radiography and ultrasonics in detail and also considers newer methods such as acoustic emission and thermography and discusses their role in on-line monitoring of plant components. Analytical techniques such as reliability studies and statistical quality control are considered in terms of their ability to reduce inspection costs and limit down time. A useful chapter provides practical guidance on selecting the right method for a given situation.

This book provides you with a thorough introduction to wireless access and local networks, covers broadband mobile wireless access systems, and details mobile and broadband wireless local area networks. This forward-looking reference focuses on cutting-edge mobile WiMax, WiFi, and WiBro technologies, including in-depth design and implementation guidance.

The Welding Engineer's Guide to Fracture and Fatigue provides an essential introduction to fracture and fatigue and the assessment of these failure modes, through to the level of knowledge that would be expected of a qualified welding engineer. Part one covers the basic principles of weld fracture and fatigue. It begins with a review of the design of engineered structures, provides descriptions of typical welding defects and how these defects behave in structures undergoing static and cyclical loading, and explains the range of failure modes. Part two then explains how to detect and assess defects using fitness for service assessment procedures. Throughout, the book assumes no prior knowledge and explains concepts from first principles. Covers the basic principles of weld fracture and fatigue. Reviews the design of engineered structures, provides descriptions of typical welding defects and how these defects behave in structures undergoing static and cyclical loading, and explains the range of

failure modes. Explains how to detect and assess defects using fitness for service assessment procedures.

Welded joints, Welding, Non-destructive testing, Radiographic testing, Steels, Nickel, Titanium, Radiography, Acceptance (approval), Inspection, Defects, Grades (quality)

As a result of their unique physical properties, biological membrane mimetics, such as liposomes, are used in a broad range of scientific and technological applications. *Liposomes, Lipid Bilayers and Model Membranes: From Basic Research to Application* describes state-of-the-art research and future directions in the field of membranes, which has evolved from basic studies of the physicochemical properties of amphiphiles to their application in industry and medicine. Written by leading researchers in their fields, this book describes basic and applied research, and serves as a useful reference for both the novice and the expert. Part one covers a range of basic research topics, from theory and computational simulations to some of the most up-to-date experimental research. Topics discussed include soft matter physics of membranes, nonlamellar phases, extraction of molecules by amphiphiles, lipid models for membrane rafts, membrane dynamics, nanodiscs, microemulsions, active membranes, as well as interactions of bilayers with drugs or DNA to treat disease or for gene transfer, respectively. Part two of the book focuses on technological applications of amphiphiles, such as liposome-based nanoparticles for drug delivery, formulation of liposomes for prolonged in vivo circulation and functionalization for medical purposes, novel drug delivery systems for increased drug loading, and the use of tethered membranes for bio-sensing applications. Chapters also describe the use of liposomes in textile dyeing and how lipidic nanoparticles are used by the food industry.

The migration of substances from packaging to food is a matter of concern for the food safety authorities, and packaging materials constitute a potential source of contaminants to which the consumer will be exposed to through their diet. A huge variety of substances can be present in packaging materials, which could consequently migrate into food and represent a risk to consumer health. *Food Contamination by Packaging* provides an overview of the main packaging contaminants including Bisphenol A, melamine, phthalates, alternative plasticisers, photoinitiators, perfluorochemicals, saturated and aromatic hydrocarbons (mineral oil saturated hydrocarbons and mineral oil aromatic hydrocarbons) from mineral oils, other bisphenol-related compounds, nanoparticles, primary aromatic amines and nonintentionally added substances. The analytical techniques used for their determination are reviewed. This book will be of interest to students and researchers in universities and research institutions associated with food packaging and, in general, to the food safety sector.

The 2nd completely revised edition of the directory *Who's Who in Food Chemistry - Europe* comprises carefully checked and evaluated information on more than 750 European food scientists, including complete addresses, telephone and fax numbers, fields of expertise, research topics as well as consulting activities. Private, governmental and official laboratories for food control are also included. Exhaustive indexes allow easy access to all entries. The increasing demand for internationally approved professionals in all fields of food science makes this volume an invaluable source of information for the food industry, R + D institutions, consultants, private laboratories and university departments seeking for cooperation and service partners or



consultancy.

Edited by one of the leading experts in the field, this book fills the need for a book presenting the most important methods for high-throughput screenings and functional characterization of enzymes. It adopts an interdisciplinary approach, making it indispensable for all those involved in this expanding field, and reflects the major advances made over the past few years. For biochemists, analytical, organic and catalytic chemists, and biotechnologists.

Effective work practices and good employee relations are a real necessity of nowadays organizations, as they can help to reduce absenteeism, turnover, organizational costs, conducting to high levels of commitment, effectiveness, performance as well as productivity. Addressing these questions, this book focuses on the implications of changes in productivity and organizational management, exploring models, tools and processes.

Sphingolipids are fundamental to the structures of cell membranes, lipoproteins, and the stratum cornea of the skin. Many complex sphingolipids, as well as simpler sphingoid bases and derivatives, are highly bioactive as extra- and intracellular regulators of growth, differentiation, migration, survival, senescence, and numerous cellular responses to stress. This book reviews exciting new developments in sphingolipid biology/sphingolipidology that challenge our understanding of how multicellular organisms grow, develop, function, age, and die.

Advances in Renewable Energies Offshore is a collection of the papers presented at the 3rd International Conference on Renewable Energies Offshore (RENEW 2018) held in Lisbon, Portugal, on 8-10 October 2018. The 104 contributions were written by a diverse international group of authors and have been reviewed by an International Scientific Committee. The book is organized in the following main subject areas: - Modelling tidal currents - Modelling waves - Tidal energy devices (design, applications and experiments) - Tidal energy arrays - Wave energy devices (point absorber, multibody, applications, control, experiments, CFD, coastal OWC, OWC and turbines) - Wave energy arrays - Wind energy devices - Wind energy arrays - Maintenance and reliability - Combined platforms - Moorings, and - Flexible materials Advances in Renewable Energies Offshore collects recent developments in these fields, and will be of interest to academics and professionals involved in the above mentioned areas.

Structures, Metals, Welded joints, Welding, Fusion welding, Structural systems, Components, Flaws, Defects, Structural steels, Ferritic steels, Austenitic steels, Steels, Aluminium alloys, Approval testing, Non-destructive testing, Stress analysis, Structural design, Cracking, Fracture, Failure (mechanical), Inclusions, Porosity, Tensile testing, Thermal testing, Leak tests, Load measurement, Fatigue testing, Classification systems, Strength of materials, Creep, Joints, Tubular shape, Stress corrosion, Corrosion, Impact testing, Schematic representation, Graphic representation, Dimensions, Mathematical calculations, Bibliography, Symbols

The purpose of the IGC Code is to provide an international standard for the safe carriage by sea of liquefied gases (and other substances listed in the Code) in bulk. To minimize risks to the ships, their crews and the environment, prescribes the design and

constructional standards of such ships and the equipment they should carry. The 1993 edition incorporates amendments adopted in 1992 by resolution MSC.30(61).

This book comprises the select proceedings of Structural Damage Modelling and Assessment (SDMA 2020) presented online on 4–5 August 2020. It discusses the recent advances in fields related to damage modelling, damage detection and assessment, non-destructive testing and evaluation, structure integrity and structural health monitoring. The conference covers all research topics and applications relevant to structural damage modelling and assessment using theoretical, numerical and experimental techniques. This book is useful to scientists and engineers in academia and industry who are interested in the field of structural damage and integrity.

Describes the weldability aspects of structural materials used in a wide variety of engineering structures, including steels, stainless steels, Ni-base alloys, and Al-base alloys Welding Metallurgy and Weldability describes weld failure mechanisms associated with either fabrication or service, and failure mechanisms related to microstructure of the weldment. Weldability issues are divided into fabrication and service related failures; early chapters address hot cracking, warm (solid-state) cracking, and cold cracking that occur during initial fabrication, or repair. Guidance on failure analysis is also provided, along with examples of SEM fractography that will aid in determining failure mechanisms. Welding Metallurgy and Weldability examines a number of weldability testing techniques that can be used to quantify susceptibility to various forms of weld cracking. Describes the mechanisms of weldability along with methods to improve weldability Includes an introduction to weldability testing and techniques, including strain-to-fracture and V-restraint tests Chapters are illustrated with practical examples based on 30 plus years of experience in the field Illustrating the weldability aspects of structural materials used in a wide variety of engineering structures, Welding Metallurgy and Weldability provides engineers and students with the information needed to understand the basic concepts of welding metallurgy and to interpret the failures in welded components.

This handbook is an in-depth guide to the practical aspects of materials and corrosion engineering in the energy and chemical industries. The book covers materials, corrosion, welding, heat treatment, coating, test and inspection, and mechanical design and integrity. A central focus is placed on industrial requirements, including codes, standards, regulations, and specifications that practicing material and corrosion engineers and technicians face in all roles and in all areas of responsibility. The comprehensive resource provides expert guidance on general corrosion mechanisms and recommends materials for the control and prevention of corrosion damage, and offers readers industry-tested best practices, rationales, and case studies.

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