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Mapping and Sequencing the Human Genome - National Research Council 1988-01-01

There is growing enthusiasm in the scientific community about the prospect of mapping and sequencing the human genome, a monumental project that will have far-reaching consequences for medicine, biology, technology, and other fields. But how will such an effort be organized and funded? How will we develop the new technologies that are needed? What new legal, social, and ethical questions will be raised? Mapping and Sequencing the Human Genome is a blueprint for this proposed project. The authors offer a highly readable explanation of the technical aspects of genetic mapping and sequencing, and they recommend specific interim and long-range research goals, organizational strategies, and funding levels. They also outline some of the legal and social questions that might arise and urge their early consideration by policymakers.

Predictive Soil Mechanics - Peter Wroth 1993

This volume contains the 49 papers which form the proceedings of the Wroth Memorial Symposium. The themes of the symposium were soil properties and their measurement, especially means of in-situ tests, prediction and performance, and design methods.

Principles of Physics - Michael Nelkon 1990-05-01

Principles of Physics is a well-established popular textbook which has been completely revised and updated.

Grandad Mandela - Ambassador Zindzi Mandela 2018-06-28

"...profoundly moving..." -Publishers Weekly Nelson Mandela's two great-grandchildren ask their grandmother, Mandela's youngest daughter, 15 questions about their grandad - the global icon of peace and forgiveness who spent 27 years in prison. They learn that he was a freedom fighter who put down his weapons for the sake of peace, and who then became the President of South Africa and a Nobel Peace Prize-winner, and realise that they can continue his legacy in the world today. Seen through a child's perspective, and authored jointly by Nelson Mandela's great-grandchildren and daughter, this amazing story is told as never before to celebrate what would have been Nelson's Mandela 100th birthday.

Many-Particle Physics - Gerald D. Mahan 2012-12-06

This textbook is for a course in advanced solid-state theory. It is aimed at graduate students in their third or fourth year of study who wish to learn the advanced techniques of solid-state theoretical physics. The method of Green's functions is introduced at the beginning and used throughout. Indeed, it could be considered a book on practical applications of Green's functions, although I prefer to call it a book on physics. The method of Green's functions has been used by many theorists to derive equations which, when solved, provide an accurate numerical description of many processes in solids and quantum fluids. In this book I attempt to summarize many of these theories in order to show how Green's functions are used to solve real problems. My goal, in writing each section, is to describe calculations which can be compared with experiments and to provide these comparisons whenever available. The student is expected to have a background in quantum mechanics at the level acquired from a graduate course using the textbook by either L. I. Schiff, A. S. Davydov, or I. Landau and E. M. Lifshitz. Similarly, a prior course in solid-state physics is expected, since the reader is assumed to know concepts such as Brillouin zones and energy band theory. Each chapter has problems which are an important part of the lesson; the problems often provide physical insights which are not in the text. Sometimes the answers to the problems are provided, but usually not.

Smart Structures and Materials - B. Culshaw 1996

This book introduces the enabling concepts that make up the so-called smart structure and presents a number of brief case studies to illustrate the applications of these concepts. It examines the domains of the individual technologies and defines the challenges faced by the integrator. The book is particularly effective for the potential system user who needs a good technical general background on the subject and is also useful for students and researchers in contributory technologies who want to better understand the context of their work. Consultants in civil and structural engineering will also find it of interest.

Sensitization in the Nervous System - Charles D. Barnes 1988-10-15

Sensitization is a concept of learning and memory that has grown out of experiments on "simple" animals. Interest in sensitization has grown tremendously in the last several years, fueled mainly by evidence of the molecular basis of sensitization in invertebrates on the one hand and the study of cocaine abuse, which produces behavioral sensitization, on the other. Because the rapid advance of information across such a broad range of research areas has made an integrated approach necessary, this volume combines findings on sensitization across the phylogenetic scale.

Loving Anna - Autumn Breeze 2014-10-05

Amelia Kurt was different. And she knew it. That didn't stop her from loving her best friend, Annabelle Johnson. They spent an entire summer making love, and growing into what was promising to be the only relationship either ever knew. Then, one day, the unexpected happens. Anna disappears. No reason, no forwarding address, no number. She was simply gone. Eleven years later, Anna returns. Her truth is heartbreaking but it's only the beginning of their journey to recovery.

Particulate Discrete Element Modelling - Catherine O'Sullivan 2014-04-21

Particulate discrete element analysis is becoming increasingly popular for research in geomechanics as well as geology, chemical engineering, powder technology, petroleum engineering and in studying the physics of granular materials. With increased computing power, practising engineers are also becoming more interested in using this technology for analysis in industrial applications. This is the first single work on Discrete Element Modelling (DEM) providing the information to get started with this powerful numerical modelling approach. Written by an independent author with experience both in developing DEM codes and using commercial codes, this book provides the basic details of the numerical method and the approaches used to interpret the results of DEM simulations. Providing a basic overview of the numerical method, Particulate Discrete Element Modelling discusses issues related to time integration and numerical stability, particle types, contact modelling and boundary conditions. It summarizes approaches to interpret DEM data so that users can maximize their insight into the material response using DEM. The aim of this book is to provide both users and prospective users of DEM with a concise reference book that includes tips to optimize their usage. Particulate Discrete Element Modelling is suitable both for first time DEM analysts as well as more experienced users. It will be of use to professionals, researchers and higher level students, as it presents a theoretical overview of DEM as well as practical guidance on running DEM simulations and interpreting DEM simulation data.

Advances in the Science and Engineering of Casting Solidification - Laurentiu Nastac 2015-02-18

The book contains the proceedings of the honorary symposium "Advances in the Science and Engineering of Casting Solidification" (TMS2015, Orlando, Florida, March 15-19, 2015) held in honor of Professor Doru

Michael Stefanescu, Emeritus Professor, Ohio State University and the University of Alabama, USA. The book encompasses the following four areas: (1) Solidification processing: theoretical and experimental investigations of solidification processes including castings solidification, directional solidification of alloys, electromagnetic stirring, ultrasonic cavitation, mechanical vibration, active cooling and heating, powder bed-electron beam melting additive manufacturing, etc. for processing of metals, polymers and composite materials; (2) Microstructure Evolution: theoretical and experimental studies related to microstructure evolution of materials including prediction of solidification-related defects and particle pushing/engulfment aspects; (3) Novel Casting and Molding Processes: modeling and experimental aspects including high pressure die casting, permanent casting, centrifugal casting, low pressure casting, 3D silica sand mold printing, etc.; and (4) Cast Iron: all aspects related to cast iron characterization, computational and analytical modeling, and processing.

The Elasmobranch Husbandry Manual - Mark F. L. Smith 2004

Quantum Theory of Many-Particle Systems - Alexander L. Fetter 2012-03-08

Self-contained treatment of nonrelativistic many-particle systems discusses both formalism and applications in terms of ground-state (zero-temperature) formalism, finite-temperature formalism, canonical transformations, and applications to physical systems. 1971 edition.

Fundamental Physics in Particle Traps - Wolfgang Quint 2014-01-28

This volume provides detailed insight into the field of precision spectroscopy and fundamental physics with particles confined in traps. It comprises experiments with electrons and positrons, protons and antiprotons, antimatter and highly charged ions together with corresponding theoretical background. Such investigations represent stringent tests of quantum electrodynamics and the Standard model, antiparticle and antimatter research, test of fundamental symmetries, constants and their possible variations with time and space. They are key to various aspects within metrology such as mass measurements and time standards, as well as promising to further developments in quantum information processing. The reader obtains a valuable source of information suited for beginners and experts with an interest in fundamental studies using particle traps.

Manual of Diagnostic Tests for Aquatic Animals - 2009

Cleft Palate Speech - Sally J. Peterson-Falzone 2010

This text provides a unique and comprehensive approach to cleft assessment, treatment, and management, with new and revised content that will keep you at the cutting edge of cleft lip and palate treatment and therapies. Comprehensive coverage of every aspect of cleft palate and related disorders. Thorough coverage of the available literature on cleft lip and cleft palate includes both contemporary and historically significant studies, as well as low-incidence types of phenomena. The Birth of a Child with a Cleft introduction provides a detailed preview to the treatment of children with clefts, and offers useful suggestions for interacting with their parents. New artwork clearly demonstrates and enhances understanding of important clinical conditions and procedures.

Lacrimal Gland, Tear Film, and Dry Eye Syndromes - David A. Sullivan 2012-12-06

During the past decade a significant international research effort has been directed towards understanding the composition and regulation of the precocular tear film. This effort has been motivated by the recognition that the tear film plays an essential role in maintaining corneal and conjunctival integrity, protecting against microbial challenge and preserving visual acuity. In addition, research has been stimulated by the knowledge that alteration or deficiency of the tear film, which occurs in countless individuals throughout the world, may lead to desiccation of the ocular surface, ulceration and perforation of the cornea, an increased incidence of infectious disease, and potentially, pronounced visual disability and blindness. To promote further progress in this field of vision research, the International Conference on the Lacrimal Gland, Tear Film and Dry Eye Syndromes: Basic Science and Clinical Relevance was held in the Southampton Princess Resort in Bermuda from November 14 to 17, 1992. This meeting was designed to assess critically the current knowledge and 'state of the art' research on the structure and function of lacrimal tissue and tears in both health and disease. The goal of this conference was to provide an

international exchange of information that would be of value to basic scientists involved in eye research, to physicians in the ophthalmological community, and to pharmaceutical companies with an interest in the treatment of lacrimal gland, tear film or ocular surface disorders (e. g. Sjogren's syndrome).

Mathematical Modeling and Computational Science - Gheorghe Adam 2012-02-21

This book constitutes the refereed post-proceedings of the International Conference on Mathematical Modeling and Computational Physics, MMCP 2011, held in Stará Lesná, Slovakia, in July 2011. The 41 revised papers presented were carefully reviewed and selected from numerous submissions. They are organized in topical sections on mathematical modeling and methods, numerical modeling and methods, computational support of the experiments, computing tools, and optimization and simulation.

NATURAL LANGUAGE PROCESSING - VINEET CHAITANYA 1996

This book presents a Paninian perspective towards natural language processing. It has three objectives: (1) to introduce the reader to NLP, (2) to introduce the reader to Paninian Grammar (PG) which is the application of the original Paninian framework to the processing of modern Indian languages using the computer, (3) to compare Paninian Grammar (PG) framework with modern Western computational grammar frameworks. Indian languages like many other languages of the world have relatively free word order. They also have a rich system of case-endings and post-positions. In contrast to this, the majority of grammar frameworks are designed for English and other positional languages. The unique aspect of the computational grammar described here is that it is designed for free word order languages and makes special use of case-endings and post-positions. Efficient parsers for the grammar are also described. The computational grammar is likely to be suitable for other free word order languages of the world. Second half of the book presents a comparison of Paninian Grammar (PG) with existing modern western computational grammars. It introduces three western grammar frameworks using examples from English: Lexical Functional Grammar (LFG), Tree Adjoining Grammar (TAG), and Government and Binding (GB). The presentation does not assume any background on part of the reader regarding these frameworks. Each presentation is followed by either a discussion on applicability of the framework to free word order languages, or a comparison with PG framework.

Reference Data - Chartered Institution of Building Services Engineers 2001

Guide C: Reference Data contains the basic physical data and calculations which form the crucial part of building services engineer background reference material. Expanded and updated throughout, the book contains sections on the properties of humid air, water and steam, on heat transfer, the flow of fluids in pipes and ducts, and fuels and combustion, ending with a comprehensive section on units, mathematical and miscellaneous data. There are extensive and easy-to-follow tables and graphs. Essential reference tool for all professional building services engineers. Easy to follow tables and graphs make the data accessible for all professionals. Provides you with all the necessary data to make informed decisions.

Marine Biotoxins and Seafood Poisoning - Pedro Reis Costa 2019-11-21

Marine biotoxins may pose a threat to the human consumption of seafood and seafood products. The increasing global trade and higher demand for seafood products worldwide represents a challenge for food safety authorities, policy makers, food business operators, and the scientific community, in particular, researchers devoted to environmental sciences, toxicology, and analytical chemistry. In addition, due to changes in climate conditions and technological developments, new and emerging marine toxins are being detected in regions where they were previously unknown. This Special Issue highlights studies aiming to develop detection methods for marine biotoxins for better understanding the dynamics of accumulation/elimination of marine biotoxins and their effects on marine organisms, as well as toxin exposure studies that aim to evaluate the risks associated with the consumption of contaminated seafood.

Structure and Reactivity of Coal - Ke-Chang Xie 2015-06-09

This book provides insights into the development and usage of coal in chemical engineering. The reactivity of coal in processes such as pyrolysis, gasification, liquefaction, combustion and swelling is related to its structural properties. Using experimental findings and theoretical analysis, the book comprehensively answers three crucial issues that are fundamental to the optimization of coal chemical conversions: What is the structure of coal? How does the underlying structure determine the reactivity of different types of coal? How does the structure of coal alter during coal conversion? This book will be of interest to both individual

readers and institutions involved in teaching and research into chemical engineering and energy conversion technologies. It is aimed at advanced-level undergraduate students. The text is suitable for readers with a basic knowledge of chemistry, such as first-year undergraduate general science students. Higher-level students with an in-depth understanding of the chemistry of coal will also benefit from the book. It will provide a useful reference resource for students and university-level teachers, as well as practicing engineers.

Ecotoxicology of Antifouling Biocides - Takaomi Arai 2009-01-29

Organotin compounds, used as antifouling biocides since 1960, are chemical compounds that act as endocrine disrupters. It is not known how organotin compounds cause hormone disturbance, however, and many questions remain about their effect on aquatic organisms. Studies on organotin compounds have recently evolved, with many new findings reported. Following a worldwide ban on organotin compounds in 2008, alternative compounds will mainly be used, with the potential for coastal areas to become contaminated, causing, among other effects, cholinesterase inhibition in aquatic organisms. Use of alternative compounds must be controlled to avoid such errors. These and other findings are described and concisely summarized in this book, providing a useful reference in countries where alternative biocides are being considered. Included are studies on the effects on marine organisms, making this book an excellent aid to experts in environmental chemistry, to government organizations, and to students.

Basic Maintenance Manual - United States. War Department 1947

SRv6 Network Programming - Zhenbin Li 2021-06-29

SRv6 Network Programming, beginning with the challenges for Internet Protocol version 6 (IPv6) network development, describes the background, roadmap design, and implementation of Segment Routing over IPv6 (SRv6), as well as the application of this technology in traditional and emerging services. The book begins with the development of IP technologies by focusing on the problems encountered during MPLS and IPv6 network development, giving readers insights into the problems tackled by SRv6 and the value of SRv6. It then goes on to explain SRv6 fundamentals, including SRv6 packet header design, the packet forwarding process, protocol extensions such as Interior Gateway Protocol (IGP), Border Gateway Protocol (BGP), and Path Computation Element Protocol (PCEP) extensions, and how SRv6 supports existing traffic engineering (TE), virtual private networks (VPN), and reliability requirements. Next, SRv6 network deployment is introduced, covering the evolution paths from existing networks to SRv6 networks, SRv6 network deployment processes, involved O&M technologies, and emerging 5G and cloud services supported by SRv6. Bit Index Explicit Replication IPv6 encapsulation (BIERv6), an SRv6 multicast technology, is then introduced as an important supplement to SRv6 unicast technology. The book concludes with a summary of the current status of the SRv6 industry and provides an outlook for new SRv6-based technologies. SRv6 Network Programming: Ushering in a New Era of IP Networks collects the research results of Huawei SRv6 experts and reflects the latest development direction of SRv6. With rich, clear, practical, and easy-to-understand content, the volume is intended for network planning engineers, technical support engineers and network administrators who need a grasp of the most cutting-edge IP network technology. It is also intended for communications network researchers in scientific research institutions and universities.

Authors: Zhenbin Li is the Chief Protocol Expert of Huawei and member of the IETF IAB, responsible for IP protocol research and standards promotion at Huawei. Zhibo Hu is a Senior Huawei Expert in SR and IGP, responsible for SR and IGP planning and innovation. Cheng Li is a Huawei Senior Pre-research Engineer and IP standards representative, responsible for Huawei's SRv6 research and standardization.

Internet-of-Things (IoT) Systems - Dimitrios Serpanos 2017-11-24

This book covers essential topics in the architecture and design of Internet of Things (IoT) systems. The authors provide state-of-the-art information that enables readers to design systems that balance functionality, bandwidth, and power consumption, while providing secure and safe operation in the face of a wide range of threat and fault models. Coverage includes essential topics in system modeling, edge/cloud architectures, and security and safety, including cyberphysical systems and industrial control systems.

Magnetic Ceramics - American Ceramic Society. Meeting 1995

From an April 1994 symposium in Indianapolis, 31 papers focus on the manufacture of magnetic ceramics

in light of new demands by consumers and the total quality movement. They cover advances in manufacturing such as using standard normal quantile plots to improve process yields and experimental design

Handbook of the Protists - John M. Archibald 2017-02-26

Published in a modern, user-friendly format this fully revised and updated edition of *The Handbook of Protozoology* (1990) is the resource for those interested in the biology, diversity and evolution of eukaryotic microorganisms and their descendants, exclusive of animals, plants and fungi. With chapters written by leading researchers in the field, the content reflects the present state of knowledge of the cell and genome biology, evolutionary relationships and ecological/medical/economic importance each major group of protists, organized according to current protist systematics as informed by molecular phylogenetics and genomics.

ICD-11 Personality Disorders: Utility and Implications of the New Model - Bo Bach 2022-01-10

Introduction to Many-Body Physics - Piers Coleman 2015-11-26

A modern, graduate-level introduction to many-body physics in condensed matter, this textbook explains the tools and concepts needed for a research-level understanding of the correlated behavior of quantum fluids. Starting with an operator-based introduction to the quantum field theory of many-body physics, this textbook presents the Feynman diagram approach, Green's functions and finite-temperature many-body physics before developing the path integral approach to interacting systems. Special chapters are devoted to the concepts of Fermi liquid theory, broken symmetry, conduction in disordered systems, superconductivity and the physics of local-moment metals. A strong emphasis on concepts and numerous exercises make this an invaluable course book for graduate students in condensed matter physics. It will also interest students in nuclear, atomic and particle physics.

Microbiota and Biofertilizers, Vol 2 - Gowhar Hamid Dar 2022-04-02

The dependence of present farming on artificial input of "chemical fertilizers" has caused numerous ecological tribulations associated with global warming and soil contamination. Moreover, there is an essential requirement for realistic agricultural practices on a comprehensive level. Accordingly, biofertilizers including microbes have been recommended as feasible environmentally sound solutions for agricultural practices which not only are natural, and cost-effective but also preserve soil environs and important biota of agricultural land. In addition, it enhances the nutrient quantity of soils organically. Microbial biofertilizers promote plant growth by escalating proficient absorption of nutrients for the plants and by providing an excellent disease-fighting mechanism. Agriculture, the backbone of human sustenance, has been put under tremendous pressure by the ever-increasing human population. Although various modern agro-techniques boosted agricultural production, the excessive use of synthetic fertilizers, pesticides and herbicides have proven extremely detrimental to agriculture as well as to the environment in which it is carried out. Besides this some faulty agricultural practices like monoculture and defective irrigation, further complicate the scenario by eliminating biodiversity, increasing the efflux of nutrients into the water bodies, the formation of algal blooms, eutrophication, damaging the water quality and lowering fish stocks. Biofertilizers are the organic compounds applied to crops for their sustainable growth and the sustainability of the environment as the microbiota associated with biofertilizers interact with the soil, roots and seeds to enhance soil fertility. Application of biofertilizers results in the increased mineral and water uptake, root development, vegetative growth and nitrogen fixation besides liberating growth-promoting substances and minerals that help the maintenance of soil fertility. They further act as antagonists and play a pivotal role in neutralising soil-borne plant pathogens and thus, help in the bio-control of diseases. Application of biofertilizers instead of synthetic fertilizers could be a promising technique to raise agricultural productivity without degrading environmental quality. The present book focuses on the latest research approaches and updates from the microbiota and their applications in the agriculture industry. We believe this book addresses various challenges and shed lights on the possible future of the sustainable agricultural system.

Food Freezing and Thawing Calculations - Q. Tuan Pham 2014-04-16

Freezing time and freezing heat load are the two most important factors determining the economics of food

freezers. This Brief will review and describe the principal methods available for their calculation. The methods can be classified into analytical methods, which rely on making physical simplifications to be able to derive exact solutions; empirical methods, which use regression techniques to derive simplified equations from experimental data or numerical calculations and numerical methods, which use computational techniques such as finite elements analysis to solve the complete set of equations describing the physical process. The Brief will evaluate the methods against experimental data and develop guidelines on the choice of method. Whatever technique is used, the accuracy of the results depends crucially on the input parameters such as the heat transfer coefficient and the product's thermal properties. In addition, the estimation methods and data for these parameters will be reviewed and their impacts on the calculations will be evaluated. Freezing is often accompanied by mass transfer (moisture loss, solute absorption), super cooling and nucleation and may take place under high pressure conditions; therefore methods to take these phenomena into account will also be reviewed.

Advances in Ceramics - Costas Sikalidis 2011-09-06

The current book consists of twenty-four chapters divided into three sections. Section I includes fourteen chapters in electric and magnetic ceramics which deal with modern specific research on dielectrics and their applications, on nanodielectrics, on piezoceramics, on glass ceramics with para-, anti- or ferro-electric active phases, of varistors ceramics and magnetic ceramics. Section II includes seven chapters in bioceramics which include review information and research results/data on biocompatibility, on medical applications of alumina, zirconia, silicon nitride, ZrO₂, bioglass, apatite-wollastonite glass ceramic and b-tri-calcium phosphate. Section III includes three chapters in applications of ceramics in environmental improvement and protection, in water cleaning, in metal bearing wastes stabilization and in utilization of wastes from ceramic industry in concrete and concrete products.

Databases and Information Systems - Tarmo Robal 2020

This book constitutes the refereed proceedings of the 14th International Baltic Conference on Databases and Information Systems, DB & IS 2020, held in Tallinn, Estonia, in June 2020.* The 22 revised papers presented were carefully reviewed and selected from 52 submissions. The papers are centered around topics like architectures and quality of information systems, artificial intelligence in information systems, data and knowledge engineering, enterprise and information systems engineering, security of information systems. *The conference was held virtually due to the COVID-19 pandemic.

Fracture, Fatigue and Structural Integrity of Metallic Materials - Sergio Cicero 2020-05-13

Fracture, fatigue, and other subcritical processes, such as creep crack growth or stress corrosion cracking, present numerous open issues from both scientific and industrial points of view. These phenomena are of special interest in industrial and civil metallic structures, such as pipes, vessels, machinery, aircrafts, ship hulls, and bridges, given that their failure may imply catastrophic consequences for human life, the natural environment, and/or the economy. Moreover, an adequate management of their operational life, defining suitable inspection periods, repairs, or replacements, requires their safety or unsafety conditions to be defined. The analysis of these technological challenges requires accurate comprehensive assessment tools based on solid theoretical foundations as well as structural integrity assessment standards or procedures incorporating such tools into industrial practice. This volume is focused on new advances in fracture, fatigue, and structural integrity of metallic structural components containing defects (e.g., cracks, notches, metal loss, etc.), and also on those developments that are being or could be incorporated into structural integrity assessment procedures, such as BS7910, R6, or API 579-1/ASME FFS-1.

Methods in Environmental Biotechnology for Environmentalists - W. B. Vasantha Kandasamy 2010

This book uses Fuzzy Control theory, Hierarchical Genetic Fuzzy Control algorithm, and special FAM to minimize pollution caused by chemicals used in cement, chemicals and dyeing industries. Such solution has not only proven hazardous to human safety and health but also to environment polluting it behind repair.

Recent Advances in Spectroscopy - Rajat K. Chaudhuri 2010-06-16

In recent years there have been great advances in the fields of laboratory and astronomical spectroscopy. These have been equally matched by large-scale computations using state-of-the-art theoretical methods. The accurate atomic opacities that are available today play a great role in the field of biomedical research using nanotechnology. The proceedings of the "International Conference on Recent Advances in

Spectroscopy: Theoretical, Experimental and Astrophysical Perspectives" contain both invited and contributory papers, which give the most recent results by the peers in the areas of theoretical and experimental atomic physics as well as observational astrophysics.

DNA-based Molecular Diagnostic Techniques - Food and Agriculture Organization of the United Nations 2000

This is the report, including recommendations, and 13 papers presented, of the Expert Workshop held in Bangkok, Thailand, from 7-9 February 1999. The workshop found that there is considerable scope for more effective use of DNA-based methods of pathogen detection to limit transboundary movement of pathogens & reduce the impact of disease in aquaculture. Few if any, of the available tests have been assessed appropriately or standardized and validated. It is recommended that programmes are developed to manage cooperative research to assist more effective use of DNA-based detection tests and that a laboratory accreditation programmed to achieve standardization also be developed

Marine Biotoxins - Fao 2007

This paper provides an extensive review of different aspects of five shellfish-poisoning syndromes (paralytic, diarrhoeic, amnesic, neurologic and azapiracid), as well as one fish-poisoning syndrome (ciguatera fish poisoning). It discusses in detail the causative toxins produced by marine organisms, chemical structures and analytical methods, habitat and occurrence of the toxin-producing organisms, case studies and existing regulations. Based on this analysis, risk assessments are carried out for each of the toxins, and recommendations are elaborated to improve the management of these risks in order to reduce the harmful effects of these toxins on public health. Contents Chapter 1: Introduction; Chapter 2: Paralytic Shellfish Poisoning (PSP); Chemical structures and properties, Methods of analysis, Source organism(s) and habitat, Occurrence and accumulation in seafood, Toxicity of PSP toxins, Prevention of PSP intoxication, Cases and outbreaks of PSP, Regulations and monitoring; Chapter 3: Diarrhoeic Shellfish Poisoning (DSP); Chemical structures and properties, Methods of analysis, Source organism(s) and habitat, Occurrence and accumulation in seafood, Toxicity of DSP toxins, Prevention of DSP intoxication, Cases and outbreaks of DSP, Regulations and monitoring; Chapter 4: Amnesic Shellfish Poisoning (ASP); Chemical structures and properties, Methods of analysis, Source organism(s) and habitat, Occurrence and accumulation in seafood, Toxicity of ASP toxins, Prevention of ASP toxins, Prevention of ASP intoxication, Cases and outbreaks of ASP, Regulations and monitoring; Chapter 5: Neurologic Shellfish Poisoning (NSP); Chemical structures and properties, Methods of analysis, Source organism(s) and habitat, Occurrence and accumulation in seafood, Toxicity of NSP toxins, Prevention of NSP intoxication, Cases and outbreaks of NSP, Regulations and monitoring; Chapter 6: Azaspiracid Shellfish Poisoning (AZP); Chemical structures and properties, Methods of analysis, Source organism(s) and habitat, Occurrence and accumulation in seafood, Toxicity of AZP toxins, Prevention of AZP intoxication, Cases and outbreaks of AZP, Regulations and monitoring; Chapter 7: Ciguatera Fish Poisoning (CFP); Chemical structures and properties of ciguatoxins, Methods of analysis, Source organism(s), habitat and distribution, Occurrence and accumulation in seafood, Toxicity of CFP toxins, Prevention of CFP intoxication, Cases and outbreaks of CFP, Regulations and monitoring; Chapter 8: Risk Assessment; Risk assessment for paralytic shellfish poisoning (PS), Risk assessment for diarrhoeic shellfish poisoning (DSP), Risk assessment for Amnesic shellfish poisoning (ASP), Risk assessment for neurologic shellfish poisoning (NSP), Risk assessment for azaspiracid shellfish poisoning (AZP), Risk assessment for ciguatera fish poisoning (CFP); Chapter 9: Conclusions and Recommendations; Conclusions, Recommendations.

Tiberius Found - Andrew Goodman 2014-01-17

What would you do if you discovered your whole life to be a lie? Daniel Henstock thinks he's an ordinary schoolboy but on his sixteenth birthday his world is turned upside down. He is the world's first one-hundred percent genetically-engineered human - assigned the codename Tiberius - and Gregory Dryden, the man responsible, wants him back so that he can continue his deadly experiments. Running for his life, Daniel flees to New York and is forced to go 'off-grid'. In this near-future America, where the security-obsessed authorities require citizens to carry DNA cards, Daniel meets the feisty and beautiful Eleanor. But by falling for her, Daniel also puts her in terrible danger. Daniel pursues the facts about his origins but is hunted by an agent sent by Dryden to bring him to heel. Can Daniel find out the truth whilst trying to evade those who

think they own him? As his enemies close in Daniel must draw on resources he never knew he had to win his freedom - but in doing so he may be walking into a deadly trap ... TIBERIUS FOUND is the first instalment in a thrilling series - The Emperor Initiative - that introduces an engaging new hero that will appeal to fans of Alex Rider and Jason Bourne.

Handbook of Physical-Chemical Properties and Environmental Fate for Organic Chemicals, Second Edition - Donald Mackay 2006-03-14

Transport and transformation processes are key for determining how humans and other organisms are exposed to chemicals. These processes are largely controlled by the chemicals' physical-chemical properties. This new edition of the Handbook of Physical-Chemical Properties and Environmental Fate for Organic Chemicals is a comprehensive series in four volumes that serves as a reference source for

environmentally relevant physical-chemical property data of numerous groups of chemical substances. The handbook contains physical-chemical property data from peer-reviewed journals and other valuable sources on over 1200 chemicals of environmental concern. The handbook contains new data on the temperature dependence of selected physical-chemical properties, which allows scientists and engineers to perform better chemical assessments for climatic conditions outside the 20-25-degree range for which property values are generally reported. This second edition of the Handbook of Physical-Chemical Properties and Environmental Fate for Organic Chemicals is an essential reference for university libraries, regulatory agencies, consultants, and industry professionals, particularly those concerned with chemical synthesis, emissions, fate, persistence, long-range transport, bioaccumulation, exposure, and biological effects of chemicals in the environment. This resource is also available on CD-ROM