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1DACOP - ISAIAS MADELYNN

It is often said that the "dosage" of any substance determines its remedy or poison effect. Heavy metal sources encompass sewage, pesticides, fertilizers, environmental contamination, occupational exposure/contact through inhalation, ingestion, and skin. Before the advent of technology/the industrial revolution, communicable diseases ravaged the human race but this seems to have given way to non-communicable diseases such as cancers, renal failure, hormonal distortion enzymes, inhibition of fetal growth, and DNA damage causing negative health issues due to heavy metals. This book brings to the fore probably the most recent experimental research/review on heavy metal contamination, remediating techniques, cellular tissue damage, and toxicological and antioxidant effects of heavy metals. It is hoped that its contents will make interesting reading for all.

Nelson Physics 12 provides a rigorous, comprehensive, and accurate treatment of all concepts and processes presented in Ontario's Physics, Grade 12, university Preparation course (SPH4U). This resource thoroughly equips students with the independent learning, problem-solving, and research skills that are essential to successfully meet the entrance requirements for university programs. Complex Physics concepts are presented in a clear, understandable fashion and key concepts, such as static equilibrium, are treated in greater depth than specified in the curriculum.

Physical therapy services may be provided alongside or in conjunction with other medical services. They are performed by physical therapists (known as physiotherapists in many countries) with the help of other medical professionals. This book consists of 11 chapters written by several professionals from different parts of the world. It includes different kinds of chapters for clinical physical therapy with precious points for physical therapy, physical therapy for cancer, chronic venous disease, mental health, and other topics. We hope that the information provided in this book will instruct global physical therapists and related professionals.

The present book offers an overall up-to-date overview of the biological diversity, comprising many interesting chapters focussing on the different aspects of biodiversity. Most of the chapters include findings of investigations and observations on biodiversity, whilst a few are based on statistically and theoretically derived information. The book produced sufficient information on the occurrence and distribution of many plant and animal species or groups of organisms with environmental estimates from a wide variety of interesting terrestrial and aquatic habitats. With 18 interesting and elaborately prepared chapters, the present book would definitely be an ideal source of scientific information to the advanced students, junior researchers, scientists and a portion of the public involved in ecology and other research areas involving biodiversity studies. It will also help to the development of the growing awareness of the close linkage between the conversation of biodiversity and economic development.

Elizabeth is furious when a new girl, an actress, becomes head girl over the obvious choice, her friend Emma. Elizabeth is convinced that all the seniors have been swayed by her acting skills, both on screen and at school—but how can she prove it? Kerry is cleverer than Elizabeth thinks, and somehow she just manages to make the Naughtiest Girl look like a troublemaker.

A historical study of Chile's twin experiments with cybernetics and socialism, and what they tell us about the relationship of technology and politics. In Cybernetic Revolutionaries, Eden Medina tells the history of two intersecting utopian visions, one political and one technological. The first was Chile's experiment with peaceful socialist change under Salvador Allende; the second was the simultaneous attempt to build a computer system that would manage Chile's economy. Neither vision was fully realized—Allende's government ended with a violent military coup; the system, known as Project Cybersyn, was never completely implemented—but they hold lessons for today about the relationship between technology and politics. Drawing on extensive archival material and interviews, Medina examines the cybernetic system envisioned by the Chilean government—which was to feature holistic system design, decentralized management, human-computer interaction, a national telex network, near real-time control of the growing industrial sector, and modeling the behavior of dynamic systems. She also describes, and documents with photographs, the network's Star Trek-like operations room, which featured swivel chairs with armrest control panels, a wall of screens displaying data, and flashing red lights to indicate economic emergencies. Studying project Cybersyn today helps us understand not only the technological ambitions of a government in the midst of political change but also the limitations of the Chilean revolution. This history further shows how human attempts to combine the political and the technological with the goal of creating a more just society can open new technological, intellectual, and political possibilities. Technologies, Medina writes, are historical texts; when we read them we are reading history.

The book "Progress in Carotenoid Research" presents an authoritative and comprehensive overview of the biology, biochemistry, and chemistry of carotenoids. Divided into 14 discrete parts, this book covers topics on basic science and applied technology of carotenoid molecules. This book provides an insight into future developments in each field and has an extensive bibliography. It will be an essential resource for researchers and academic and industry professionals in the natural pigment field.

This book is open access under a CC BY 4.0 license. This book describes the history, structure and institutions of open and distance education in six countries: China, India, Russia, Turkey, South Africa and South Korea. It describes how open and distance education is evolving in a digital age to reflect the needs and circumstances of the national higher education systems in these countries. It also explores the similarities and differences between how their open and distance higher education systems are managed and structured. This book is the second in a series, following Open and Distance Education in Australia, Europe and the Americas (Springer 2018). Both books compare and draw conclusions about the nature of open and distance education in the context of various national higher education systems. In a digital era characterized by the growing use of online, open and distance education, this book will prove particularly valuable for policy-makers and senior administrators who want to learn about establishing or expanding open and distance education services. In addition, it offers a valuable reference guide for researchers, academics and students interested in understanding the different approaches to open and distance education.

This volume brings together examples of the best research to address the complexity of the Caribbean past.

Protected areas are at the base of the most national and international conservation strategies. Due

to the many unpredictable elements in ecology matters, each protected area requires a case-specific set of guidelines but a common issue is how to cope with human interaction. The management of protected areas is replete with challenges and the only way to gain understanding and achieve greater management possibilities is to exchange experiences and knowledge. Environmental managers are aware of that and together with scientists are looking for more modern and better solutions, both with respect to natural resources and human interactions in many issues regarding nature protection. This publication presents reviews and research results on protected areas management, as well as 12 case studies derived from around the world with the aim of improving management effectiveness of the protected areas.

The coastal environment is deteriorating at an alarming rate and is currently a great societal concern. This book provides a selected collection of papers on coastal environmental change, coastal disasters, and coastal infrastructure due to global warming, with a focus on the coasts of the rapidly developing country China. What makes the book distinctly different from others is its diversity, reflecting the interdisciplinary nature of coastal problems. With contributions from over 30 authors, the book is a comprehensive account of diverse topics, such as coastal upwelling, estuarine processes, coastal pollution, sea level rise, meteorological and atmospheric problems, urbanization and the heat island effect, and coastal infrastructure, to name just a few, from theoretical study and phenomenological description, to methodological development. This book is expected to serve as a relatively comprehensive reference for coastal researchers, graduate students, as well as policymakers and coastal resource managers.

Mathematical probability and statistics are an attractive, thriving, and respectable part of mathematics. Some mathematicians and philosophers of science say they are the gateway to mathematics' deepest mysteries. Moreover, mathematical statistics denotes an accumulation of mathematical discussions connected with efforts to most efficiently collect and use numerical data subject to random or deterministic variations. Currently, the concept of probability and mathematical statistics has become one of the fundamental notions of modern science and the philosophy of nature. This book is an illustration of the use of mathematics to solve specific problems in engineering, statistics, and science in general.

This monograph focuses on the level of management culture development in organizations attempting to disclose it not only with the help of theoretical insights but also by the approach based on employees and managers. Why was the term "management culture" that is rarely found in literature selected for the analysis? We are quite often faced with problems of terminology. Especially, it often happens in the translation from one language to another. While preparing this monograph, the authors had a number of questions on how to decouple the management culture from organization's culture and from organizational culture, how to separate management culture from managerial culture, etc. However, having analysed a variety of scientific research, it appeared that there is no need to break down the mentioned cultures because they still overlap. Therefore, it is impossible to completely separate the management culture from the formal or informal part of organizational culture. Management culture inevitably exists in every organization, only its level of development may vary.

This book introduces the single use of four widely-used qualitative approaches and then introduces ways and applications of using the approaches in combination. Personal insight into qualitative research practice from each of the contributors covers health psychology, social psychology, criminal psychology, gender studies psychotherapy, counselling psychology and organizational psychology. Epidemiology: A Research Manual for South Africa maintains the focus on epidemiology as a discipline and incorporates the changes in policy as well as new findings and research methodologies. The only South African book dealing with epidemiology as a discipline.

Delving into Infrared Spectroscopy: Principles, Advances and Applications, and with basic knowledge of IR spectroscopy, will provide the reader with a synopsis of fundamentals and groundbreaking advances in the field. Readers will see a variety of MIR applications and difficulties encountered, especially in an industrial environment. Competency in FT-IR spectroscopy in biomedical research and early-stage diagnosis of obesity is shown. Challenges associated with VIS-NIR applications are shown through application of the technique in assessing quality parameters of fruits. Moreover, IR spectroscopic studies of radiation-stimulated processes, and the influence of using IR in developing an ideal catalyst and hence an efficient catalysis process, are discussed. The impact of coupling multivariate data analysis techniques to IR is shown in almost every chapter.

It's Christmas time and Peppa's school is putting on a show. The children invite Father Christmas along to see their play, but it's his busiest time of year! Luckily, their very special guest makes it just in time and has an even more special surprise for Peppa and her friends. With a sparkly glitter cover, this is the perfect Peppa story to share at Christmas!

This book provides an extensive overview of the application of neutron characterization techniques in cultural heritage to a broad audience and will be of interest to both scientists and non-scientists in the field. Archaeologists, paleontologists, restaurateurs and conservators, historians and collectors will be fascinated by the wealth of information that can be obtained using neutron techniques, while material scientists and engineers will find details of the experimental techniques and materials properties that can be determined. Neutrons, due to their weak interactions with materials, provide a penetrating, but non-invasive probe of bulk properties. They allow the characterization of the composition and mechanical properties of materials, helping to answer questions related to the dating, the manufacturing process or the state of degradation of artefacts. They allow detailed interrogation of the internal structures of objects that may be otherwise hidden from view. The first section of the book is dedicated to stories describing spectacular discoveries brought about by the use of neutron techniques in a range of applications. The second section covers the experimental techniques in appropriate detail: basic principles, limitations and fields of application.

Enhance your understanding of radiation physics and radiation protection! Corresponding to the chapters in Radiation Protection in Medical Radiography, 7th Edition, by Mary Alice Statkiewicz Sherer, this workbook provides a clear, comprehensive review of all the material included in the text. Practical exercises help you apply your knowledge to the practice setting. It is well written and easy to comprehend". Reviewed by: Kirsten Farrell, University of Portsmouth Date: Nov 2014 A comprehensive review includes coverage of all the material included in the text, including x-radiation interaction, radiation quantities, cell biology, radiation biology, radiation effects, dose limits, patient and

personnel protection, and radiation monitoring. Chapter highlights call out the most important information with an introductory paragraph and a bulleted summary. A variety of question formats includes multiple choice, matching, short answer, fill-in-the-blank, true-false, labeling, and crossword puzzles. Calculation exercises offer practice in applying the formulas and equations introduced in the text. Answers are provided in the back of the book so you can easily check your work.

Water Quality - Science, Assessments and Policy examines many of the scientific issues; national, regional and local assessment practices and results; and national policy issues related to water quality. Chapters focus on three areas: water quality parameters, water quality treatments, and water quality assessments. This book provides a basic understanding of water quality issues and practical examples of their solution.

The WHO Regional Office for Europe set up a working group of experts to provide scientific advice to the Member States for the development of future legislation and policy action in the area of assessment and control of night noise exposure. The working group reviewed available scientific evidence on the health effects of night noise, and derived health-based guideline values. In December 2006, the working group and stakeholders from industry, government and nongovernmental organizations reviewed and reached general agreement on the guideline values and key texts for the final document of the "Night noise guidelines for Europe". Considering the scientific evidence on the thresholds of night noise exposure indicated by "Lnight,outside" [L suffix night,outside] as defined in the Environmental Noise Directive (2002/49/EC), an Lnight, outside of 40 dB should be the target of the night noise guideline (NNG) to protect the public, including the most vulnerable groups such as children, the chronically ill and the elderly. "Lnight,outside" value of 55 dB is recommended as an interim target for the countries where the NNG cannot be achieved in the short term for various reasons, and where policy-makers choose to adopt a stepwise approach. These guidelines are applicable to the Member States of the European Region, and may be considered as an extension to, as well as an update of, the previous WHO "Guidelines for community noise" (1999). [Ed.]

This book provides readers with comprehensive details on the management and measures to protect health against risks to people and environments generated by the use of ionizing and non-ionizing radiation. This book is divided into three sections, namely, Radiation Protection and Measurement; Radiation Therapy; and Radioactivity. The first section covers ionizing radiation protection; population exposure to non-ionizing density; and the system of dosimetry quantities for use in emergency preparedness and response to nuclear or radiological accidents. The second section covers various planning techniques for spinal stereotactic body radiotherapy and the application of radiation technology in the development of a malaria vaccine. The third section discusses environmental radioactivity monitoring using efficient measurements and the assessment of radiation exposure to humans. Also in this section is the evaluation of the effects of chronic radiation exposure on the testes of mice after a nuclear power plant accident.

Diabetes is a complex, progressive disease, which is accompanied by several complications. It is listed among the most common endocrine disorders and a global metabolic epidemic disease. This book focuses on the recent progress in diabetes research worldwide. It has been written by extensively acknowledged experts, with each chapter providing a unique data on developing features of diabetes. It covers the interactions between diabetes and several disorders. Also, it suggests some treatments for this disease offering us hope in prevention and successful improvement.

To prevent bacterial adherence, invasion and infection, antimicrobials such as antibiotics are being used and vastly researched nowadays. Several factors such as natural selection, mutations in genes, the presence of efflux pumps, impermeability of the cell wall, structural changes in enzymes and receptors, biofilm formation, and quorum sensing cause microorganisms to develop resistance against antimicrobials. Isolates that synthesize extended spectrum- β -lactamases (ESBL), induced β -lactamases (IBL), carbapenemases, metallo- β -lactamases (MBLs), and New Delhi metallo- β -lactamases (NDM) have emerged. Determining virulence factors such as biofilms and the level of antimicrobial activities of antimicrobial agents alone and in combination with appropriate doses against microorganisms is very important for the diagnosis, inhibition, and prevention of microbial infection. The goal of this book is to provide information on all these topics.

This book provides an inclusive and comprehensive discussion of the transmission, science, biology, genome sequencing, diagnostics, and therapeutics of COVID-19. It also discusses public and government health measures and the roles of media as well as the impact of society on the ongoing efforts to combat the global pandemic. It addresses almost every topic that has been studied so far in the research on SARS-CoV-2 to gain insights into the fundamentals of the disease and mitigation strategies. This volume is a useful resource for virologists, epidemiologists, biologists, medical professionals, public health and government professionals, and all global citizens who have endured and battled against the pandemic.

Since robotic prehension is widely used in all sectors of manufacturing industry, this book fills the need for a comprehensive, up-to-date treatment of the topic. As such, this is the first text to address both developers and users, dealing as it does with the function, design and use of industrial robot grippers. The book includes both traditional methods and many more recent developments such as micro grippers for the optoelectronics industry. Written by authors from academia, industry and consulting, it begins by covering the four basic categories of robotic prehension before expanding into

sections dealing with endeffector design and control, robotic manipulation and kinematics. Later chapters go on to describe how these various gripping techniques can be used for a common industrial aim, with details of related topics such as: kinematics, part separation, sensors, tool exchange and compliance. The whole is rounded off with specific examples and case studies. With more than 570 figures, this practical book is all set to become the standard for advanced students, researchers and manufacturing engineers, as well as designers and project managers seeking practical descriptions of robot endeffectors and their applications.

Due to the resultant health consequences and considerable increase in prevalence, obesity has become a major worldwide health problem. "Obesity and Lipotoxicity" is a comprehensive review of the recent researches to provide a better understanding of the lipotoxicity-related mechanisms of obesity and the potential for the development of new treatment strategies. This book overviews the biochemical pathways leading to obesity-related metabolic disorders that occur subsequent to lipotoxicity. Chapters examine the deleterious effects of nutrient excess at molecular level including the cellular and molecular aspects of breast cancer, resistance to leptin, insulin, adiponectin, and interconnection between the circadian clock and metabolic pathways during high-fat feeding. "Lipotoxicity and Obesity" will be a useful resource for clinicians and basic science researchers, such as biochemists, toxicologists, immunologists, nutritionists, adult and pediatric endocrinologists, cardiologists, as well as students who are thought in this field.

Combining basic concepts with the synthesis of new catalysts, reactor and reaction engineering, this book is a comprehensive resource for researchers.

In this volume, language learning and professionalization are explored by addressing the existing gap between pressing needs for enhanced soft skills in work environments wherein technology-mediated, multilingual communication is increasingly the norm, and current foreign language teaching and learning offerings in higher education. Considering theoretical, methodological, and pedagogical perspectives for preparing language learners and teachers in/for the 21st century, this volume's eight chapters underscore that research findings should inform the design of learning experiences so that people's communication needs in fast-changing work environments are met and the link between language education and professionalization, within a lifelong learning perspective, is sustained.

Pathophysiology is the convergence of pathology (the discipline of observed changes in a diseased state) with physiology (the mechanisms of systems operation). It represents the functional changes that occur because of injury or disease. This volume provides state-of-the-art up-to-date literature reviews on pathophysiological processes in a number of disease states. The book is organized methodically in a head-to-toe systems approach examining aspects of neuropathophysiology, endocrine pathophysiology, structural biology, renal pathophysiology and genitourinary pathophysiology. This short volume on pathophysiology is intended for general medical and biomedical students at both undergraduate and postgraduate levels. In addition, it is a useful short update of recent advances in research and translational biology to those working in academia or healthcare science.

This book identifies accumulated environmental, social and economic effects of oil and gas leasing, exploration, and production on Alaska's North Slope. Economic benefits to the region have been accompanied by effects of the roads, infrastructure and activities of oil and gas production on the terrain, plants, animals and peoples of the North Slope. While attempts by the oil industry and regulatory agencies have reduced many of the environmental effects, they have not been eliminated. The book makes recommendations for further environmental research related to environmental effects.

From environmental remediation to alternative fuels, this book explores the numerous important applications of photocatalysis. The book covers topics such as the photocatalytic processes in the treatment of water and air; the fundamentals of solar photocatalysis; the challenges involved in developing self-cleaning photocatalytic materials; photocatalytic hydrogen generation; photocatalysts in the synthesis of chemicals; and photocatalysis in food packaging and biomedical and medical applications. The book also critically discusses concepts for the future of photocatalysis, providing a fascinating insight for researchers. Together with Photocatalysis: Fundamentals and Perspectives, these volumes provide a complete overview to photocatalysis.

This book collects the contribution of a selected number of clinical psychiatrists interested in the clinical evaluation of specific issues on psychopathy. The nine chapters of the book address some relevant issues related to nosography, early recognition and treatment, bio-psycho-social models (in particular cognitive-behavioral and ethological ones), and social and familial consequences of psychopathic personality.

This highly regarded textbook covers all the main A Level Chemistry specifications.

This book provides detailed insights into the role of microorganisms and microbial products in biodegradation, conservation and restoration of cultural heritage. Topics to be discussed are microbial colonization and their growth control on both artworks and aerosol of indoor environments such as libraries or museums, as well as human health hazard from exposure to microbial agents. In addition innovative biotechnological protocols and strategies for the removal of undesired layers on artwork surfaces are described in detail. Also the advances and perspectives in this emerging biotechnological field are discussed, supported by the latest original findings.