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Flowering Plants. Monocots Elizabeth A. Kellogg 2015-05-18 This volume is the outcome of a modern phylogenetic analysis of the grass family based on multiple sources of data, in particular molecular systematic studies resulting from a concerted effort by researchers worldwide, including the author. In the classification given here grasses are subdivided into 12 subfamilies with 29 tribes and over 700 genera. The keys and descriptions for the taxa above the rank of genus are hierarchical, i.e. they concentrate upon characters which are deemed to be synapomorphic for the lineages and may be applicable only to their early-diverging taxa. Beyond the treatment of phylogeny and formal taxonomy, the author presents a wide range of information on topics such as the structural characters of grasses, their related functional aspects and particularly corresponding findings from the field of developmental genetics with inclusion of genes and gene products instrumental in the shaping of morphological traits (in which this volume appears unique within this book series); further topics addressed include the contentious time of origin of the family, the emigration of the originally shade-loving grasses out of the forest to form vast grasslands accompanied by the switch of many members to C4 photosynthesis, the impact of herbivores on the silica cycle housed in the grass phytoliths, the reproductive biology of grasses, the domestication of major cereal crops and the affinities of grasses within the newly circumscribed order Poales. This volume provides a comprehensive overview of existing knowledge on the Poaceae (Gramineae), with major implications in terms of key scientific challenges awaiting future research. It certainly will be of interest both for the grass specialist and also the generalist seeking state-of-the-art information on the diversity of grasses, the most ecologically and economically important of the families of flowering plants.

The Harriet Lane Handbook Harriet Lane Service 2017-05-01

Cigars 1998 Identifies upward trend in cigar use as potential serious public health problem.

Review of the national ambient air quality standards for particulate matter policy assessment of scientific and technical information. 2005

Integrated Role of Nutrition and Physical Activity for Lifelong Health Karsten Koehler 2019-07-16 As computer and space technologies have been developed, geoscience information systems (GIS) and remote sensing (RS) technologies, which deal with the geospatial information, have been rapidly maturing. Moreover, over the last few decades, machine learning techniques including artificial neural network (ANN), deep learning, decision tree, and support vector machine (SVM) have been successfully applied to geospatial science and engineering research fields. The machine learning techniques have been widely applied to GIS and RS research fields and have recently produced valuable results in the areas of geoscience, environment, natural hazards, and natural resources. This book is a collection representing novel contributions detailing machine learning techniques as applied to geoscience information systems and remote sensing.

Enological Repercussions of Non-Saccharomyces Species 2.0 Antonio Morata 2021-04-15 The use of non-Saccharomyces yeast species is currently a biotechnology trend in enology for which they are being broadly used to improve the sensory profile of wines because they affect aroma, color, and mouthfeel. They have become a powerful biotool to modulate the influence of global warming on grape varieties, helping to maintain the acidity, decrease the alcoholic degree, stabilize wine color, and increase freshness. In cool climates, some non-Saccharomyces can promote demalication or color stability by the formation of stable derived pigments. Additionally, non-Saccharomyces yeasts open new possibilities in biocontrol for removing spoilage yeast and bacteria or molds that can produce and release mycotoxins and, thereby, help in reducing applied SO2 levels.

Open Veins of Latin America Eduardo Galeano 1997 [In this book, the author's] analysis of the effects and causes of capitalist underdevelopment in Latin America present [an] account of ... Latin American history. [The author] shows how foreign companies reaped huge profits through their operations in Latin America. He explains the politics of the Latin American bourgeoisies and their subservience to foreign powers, and how they interacted to create increasingly unequal capitalist societies in Latin America.-Back cover.

The Torre-Bueno Glossary of Entomology José Rollin Torre-Bueno 1989 This is a revision of Jose Rollin de la Torre-Bueno's A Glossary of Entomology published in 1937. For

more than half a century it has served as the most important reference for entomological terms in the English language. This is a much needed updated and revised edition of the original glossary.

Ecological Implications of Minilivestock M G Paoletti 2005-01-07 This book provides stimulating and timely suggestions about expanding the world food supply to include a variety of minilivestock. It suggests a wide variety of small animals as nutritious food. These animals include arthropods (insects, earthworms, snails, frogs), and various rodents. The major advantage of minilivestock is that they do not have t

Seamless Prediction of the Earth System Gilbert Brunet 2015 "This book collects together White Papers that have been written to describe the state of the science and to discuss the major challenges for making further advances. The authors of each chapter have attempted to draw together key aspects of the science that was presented at WWOSC-2014. The overarching theme of this book and of WWOSC-2014 is 'Seamless Prediction of the Earth System: from minutes to months'. The book is structured with chapters that address topics regarding: Observations and Data Assimilation; Predictability and Processes; Numerical Prediction of the Earth System; Weather-related Hazards and Impacts. This book marks a point in time and the knowledge that has been accumulating on weather science. It aims to point the way to future developments"--Preface.

Probiotics and Prebiotics in Pediatrics Yvan Vandenplas 2019 The goal of this Special Issue, "Probiotics and Prebiotics in Pediatrics", is to focus on the importance of pediatric nutrition with probiotics and prebiotics to improve gastrointestinal health in newborn, infants, and children. Specifically, the aim is to clarify if probiotics and prebiotics can influence gut microbiota composition and host-interaction favoring human health and preventing diseases. This new information will provide health care professionals with a widespread, clear and update evidence on probiotics and prebiotics and intestinal gut microbiota in pediatric care.

Negotiating Climate Change in Crisis Steffen Böhm 2021-09-28 Climate change negotiations have failed the world. Despite more than thirty years of high-level, global talks on climate change, we are still seeing carbon emissions rise dramatically. This edited volume, comprising leading and emerging scholars and climate activists from around the world, takes a critical look at what has gone wrong and what is to be done to create more decisive action. Composed of twenty-eight essays—a combination of new and republished texts—the anthology is organised around seven main themes: paradigms; what counts?; extraction; dispatches from a climate change frontline country; governance; finance; and action(s). Through this multifaceted approach, the contributors ask pressing questions about how we conceptualise and respond to the climate crisis, providing both 'big picture' perspectives and more focussed case studies. This unique and extensive collection will be of great value to environmental and social scientists alike, as well as to the general reader interested in understanding current views on the climate crisis.

Advances in Tourism, Technology and Systems António Abreu 2020-11-19 This book features a collection of high-quality research papers presented at the International Conference on Tourism, Technology & Systems (ICOTTS 2020), held at the University of Cartagena, in Cartagena de Indias, Colombia, from 29th to 31st October 2020. The book is divided into two volumes, and it covers the areas of technology in tourism and the tourist experience, generations and technology in tourism, digital marketing applied to tourism and travel, mobile technologies applied to sustainable tourism, information technologies in tourism, digital transformation of tourism business, e-tourism and tourism 2.0, big data and management for travel and tourism, geotagging and tourist mobility, smart destinations, robotics in tourism, and information systems and technologies.

HACCP and ISO 22000 Ioannis S. Arvanitoyannis 2009-11-09 Food Safety is an increasingly important issue. Numerous foodcrises have occurred internationally in recent years (the use of the dye Sudan Red I; the presence of acrylamide in various fried and baked foods; mislabelled or unlabelled genetically modified foods; and the outbreak of variant Creutzfeldt-Jakob disease) originating in both primary agricultural production and in the food manufacturing industries. Public concern at these and other events has led government agencies to implement a variety of legislative actions covering many aspects of the food chain. This book presents and compares the HACCP and ISO 22000:2005 food safety management systems. These systems were introduced to improve and build upon existing systems in an attempt to address the kinds of failures which can lead to food crises. Numerous practical examples illustrating the application of ISO 22000 to the manufacture of food products of animal origin are presented in this extensively-referenced volume. After an opening chapter which introduces ISO 22000 and compares it with the well-established HACCP food safety management system, a summary of international legislation relating to safety in foods of animal origin is presented. The main part of the book is divided into chapters which are devoted to the principle groups of animal-derived food products: dairy, meat, poultry, eggs and seafood. Chapters are also included on catering and likely future directions. The book is aimed at food industry managers and consultants; government officials responsible for food safety monitoring; researchers and advanced students interested in food safety.

Rodent Model as Tools in Ethical Biomedical Research Monica Levy Andersen 2015-11-26 ?The objective of this book is to concisely present information with respect to appropriate use of experimental rodents in research. The principles elaborated seek to provide knowledge of the techniques involved in both management and scientific research to all who use laboratory animals, with a focus on the well-being and ethics regarding rodents and also to fortify the awareness of the importance of the animal as a study object and to offer orientation and assistance in conducting laboratory research, education or tests.

Innovations and Interdisciplinary Solutions for Underserved Areas Jessica P. R. Thorn 2020-08-05 This book constitutes the refereed post-conference proceedings of the 4th EAI International Conference on Innovations and Interdisciplinary Solutions for Underserved Areas, InterSol 2020, held in Nairobi, Kenya, in March 2020. Due to the COVID-19 pandemic the conference is postponed to a later date in 2020. The 20 papers presented were selected from 50 submissions and issue different problems in underserved and

unserved areas. They face problems in almost all sectors such as energy, water, communication, climate, food, education, transportation, social development, and economic growth.

Politically Incorrect Nutrition Michael Barbee 2012-05-22 Did you know that some noncaloric artificial sweeteners can actually make you fat—or even kill you? Did you know that the overconsumption of certain soy products can upset your hormonal balance and lead to hypothyroidism? Most people didn't, until now. *Politically Incorrect Nutrition* exposes many current and widely held beliefs foisted on both consumers and health-care practitioners by well-oiled, agenda-driven food industry propaganda. It analyzes popular claims and reveals what, in fact, is healthy—and what is decidedly unhealthy—by exploring the most current and objective scientific data regarding good nutrition. If you want to provide the best possible food for yourself and your family, or if you simply want to learn the truth behind the many food myths that are presented to us day after day, *Politically Incorrect Nutrition* is must reading.

Diesel and Gasoline Engine Exhausts and Some Nitroarenes The International Agency for Research on Cancer 2015-01-01 In 1988, IARC classified diesel exhaust as probably carcinogenic to humans (Group 2A). An Advisory Group which reviews and recommends future priorities for the IARC Monographs Program had recommended diesel exhaust as a high priority for re-evaluation since 1998. There has been mounting concern about the cancer-causing potential of diesel exhaust, particularly based on findings in epidemiological studies of workers exposed in various settings. This was re-emphasized by the publication in March 2012 of the results of a large US National Cancer Institute/National Institute for Occupational Safety and Health study of occupational exposure to such emissions in underground miners, which showed an increased risk of death from lung cancer in exposed workers. The scientific evidence was reviewed thoroughly by the Working Group and overall it was concluded that there was sufficient evidence in humans for the carcinogenicity of diesel exhaust. The Working Group found that diesel exhaust is a cause of lung cancer (sufficient evidence) and also noted a positive association (limited evidence) with an increased risk of bladder cancer (Group 1). The Working Group concluded that gasoline exhaust was possibly carcinogenic to humans (Group 2B), a finding unchanged from the previous evaluation in 1989.

Understanding Morphology Martin Haspelmath 2013-10-28 This new edition of *Understanding Morphology* has been fully revised in line with the latest research. It now includes 'big picture' questions to highlight central themes in morphology, as well as research exercises for each chapter. *Understanding Morphology* presents an introduction to the study of word structure that starts at the very beginning. Assuming no knowledge of the field of morphology on the part of the reader, the book presents a broad range of morphological phenomena from a wide variety of languages. Starting with the core areas of inflection and derivation, the book presents the interfaces between morphology and syntax and between morphology and phonology. The synchronic study of word structure is covered, as are the phenomena of diachronic change, such as analogy and grammaticalization. Theories are presented clearly in accessible language with the main purpose of shedding light on the data, rather than as a goal in themselves. The authors consistently draw on the best research available, thus utilizing and discussing both functionalist and generative theoretical approaches. Each chapter includes a summary, suggestions for further reading, and exercises. As such this is the ideal book for both beginning students of linguistics, or anyone in a related discipline looking for a first introduction to morphology.

Food Safety Culture Frank Yiannas 2008-12-10 Food safety awareness is at an all time high, new and emerging threats to the food supply are being recognized, and consumers are eating more and more meals prepared outside of the home. Accordingly, retail and foodservice establishments, as well as food producers at all levels of the food production chain, have a growing responsibility to ensure that proper food safety and sanitation practices are followed, thereby, safeguarding the health of their guests and customers. Achieving food safety success in this changing environment requires going beyond traditional training, testing, and inspectional approaches to managing risks. It requires a better understanding of organizational culture and the human dimensions of food safety. To improve the food safety performance of a retail or foodservice establishment, an organization with thousands of employees, or a local community, you must change the way people do things. You must change their behavior. In fact, simply put, food safety equals behavior. When viewed from these lenses, one of the most common contributing causes of food borne disease is unsafe behavior (such as improper hand washing, cross-contamination, or undercooking food). Thus, to improve food safety, we need to better integrate food science with behavioral science and use a systems-based approach to managing food safety risk. The importance of organizational culture, human behavior, and systems thinking is well documented in the occupational safety and health fields. However, significant contributions to the scientific literature on these topics are noticeably absent in the field of food safety.

The Chemical Components of Tobacco and Tobacco Smoke Alan Rodgman 2016-04-19 Authored by two longtime researchers in tobacco science, *The Chemical Components of Tobacco and Tobacco Smoke, Second Edition* chronicles the progress made from late 2008 through 2011 by scientists in the field of tobacco science. The book examines the isolation and characterization of each component. It explores developments in pertinent analytical

Phenolic Compounds in Fruit Beverages António Manuel Jordão 2018-07-02 This book is a printed edition of the Special Issue "Phenolic Compounds in Fruit Beverages" that was published in *Beverages*

A Concise Introduction to Logic Patrick Hurley 2008-12-23 Tens of thousands of students have learned to be more discerning at constructing and evaluating arguments with the help of Patrick J. Hurley. Hurley's lucid, friendly, yet thorough presentation has made *A CONCISE INTRODUCTION TO LOGIC* the most widely used logic text in North America. In addition, the book's accompanying technological resources, such as CengageNOW and Learning Logic, include interactive exercises as well as video and audio clips to

reinforce what you read in the book and hear in class. In short, you'll have all the assistance you need to become a more logical thinker and communicator. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Online Statistics Education David M Lane 2014-12-02 Online Statistics: An Interactive Multimedia Course of Study is a resource for learning and teaching introductory statistics. It contains material presented in textbook format and as video presentations. This resource features interactive demonstrations and simulations, case studies, and an analysis lab. This print edition of the public domain textbook gives the student an opportunity to own a physical copy to help enhance their educational experience. This part I features the book Front Matter, Chapters 1-10, and the full Glossary. Chapters Include: I. Introduction, II. Graphing Distributions, III. Summarizing Distributions, IV. Describing Bivariate Data, V. Probability, VI. Research Design, VII. Normal Distributions, VIII. Advanced Graphs, IX. Sampling Distributions, and X. Estimation. Online Statistics Education: A Multimedia Course of Study (<http://onlinestatbook.com/>). Project Leader: David M. Lane, Rice University.

Stem Cells & Regenerative Medicine Krishnarao Appasani 2010-11-01 Defined as, "The science about the development of an embryo from the fertilization of the ovum to the fetus stage," embryology has been a mainstay at universities throughout the world for many years. Throughout the last century, embryology became overshadowed by experimental-based genetics and cell biology, transforming the field into developmental biology, which replaced embryology in Biology departments in many universities. Major contributions in this young century in the fields of molecular biology, biochemistry and genomics were integrated with both embryology and developmental biology to provide an understanding of the molecular portrait of a "development cell." That new integrated approach is known as stem-cell biology; it is an understanding of the embryology and development together at the molecular level using engineering, imaging and cell culture principles, and it is at the heart of this seminal book. Stem Cells and Regenerative Medicine: From Molecular Embryology to Tissue Engineering is completely devoted to the basic developmental, cellular and molecular biological aspects of stem cells as well as their clinical applications in tissue engineering and regenerative medicine. It focuses on the basic biology of embryonic and cancer cells plus their key involvement in self-renewal, muscle repair, epigenetic processes, and therapeutic applications. In addition, it covers other key relevant topics such as nuclear reprogramming induced pluripotency and stem cell culture techniques using novel biomaterials. A thorough introduction to stem-cell biology, this reference is aimed at graduate students, post-docs, and professors as well as executives and scientists in biotech and pharmaceutical companies.

A Thesaurus of English Word Roots Horace Gerald Danner 2014-03-27 Horace G. Danner's A Thesaurus of English Word Roots is a compendium of the most-used word roots of the English language. As Timothy B. Noone notes in his foreword: "Dr. Danner's book allows you not only to build up your passive English vocabulary, resulting in word recognition knowledge, but also gives you the rudiments for developing your active English vocabulary, making it possible to infer the meaning of words with which you are not yet acquainted. Your knowledge can now expand and will do so exponentially as your awareness of the roots in English words and your corresponding ability to decode unfamiliar words grows apace. This is the beginning of a fine mental linguistic library: so enjoy!" In A Thesaurus of English Word Roots, all word roots are listed alphabetically, along with the Greek or Latin words from which they derive, together with the roots' original meanings. If the current meaning of an individual root differs from the original meaning, that is listed in a separate column. In the examples column, the words which contain the root are then listed, starting with their prefixes, for example, dysacusia, hyperacusia. These root-starting terms then are followed by terms where the root falls behind the word, e.g., acouesthesia and acoumeter. These words are followed by words where the root falls in the middle or the end, as in such terms as bradyacusia and odynacusis.. In this manner, A Thesaurus of English Word Roots places the word in as many word families as there are elements in the word. This work will interest linguists and philologists and anyone interested in the etymological aspects of English language.

Intelligent Human Computer Interaction Uma Shanker Tiwary 2020-04-11 This volume constitutes the proceedings of the 11th International Conference on Intelligent Human Computer Interaction, IHCI 2019, held in Allahabad, India, in December 2019. The 25 full papers presented in this volume were carefully reviewed and selected from 73 submissions. The papers are grouped in the following topics: EEG and other biological signal based interactions; natural language, speech and dialogue processing; vision based interactions; assistive living and rehabilitation; and applications of HCI.

The Semantic Transparency of English Compound Nouns Martin Schäfer 2020-10-09 What is semantic transparency, why is it important, and which factors play a role in its assessment? This work approaches these questions by investigating English compound nouns. The first part of the book gives an overview of semantic transparency in the analysis of compound nouns, discussing its role in models of morphological processing and differentiating it from related notions. After a chapter on the semantic analysis of complex nominals, it closes with a chapter on previous attempts to model semantic transparency. The second part introduces new empirical work on semantic transparency, introducing two different sets of statistical models for compound transparency. In particular, two semantic factors were explored: the semantic relations holding between compound constituents and the role of different readings of the constituents and the whole compound, operationalized in terms of meaning shifts and in terms of the distribution of specific readings across constituent families. This work was published by Saint Philip Street Press pursuant to a Creative Commons license permitting commercial use. All rights not granted by the work's license are retained by the author or authors.

Red Meat and Processed Meat International Agency for Research on Cancer 2018-06 This volume of the IARC Monographs provides evaluations of the consumption of red meat and the consumption of processed meat. Red meat refers to unprocessed mammalian muscle meat (e.g. beef, veal, pork, lamb) including that which may be minced or frozen.

Processed meat refers to meat that has been transformed through salting, curing, fermentation, smoking or other processes to enhance flavor or improve preservation. Most processed meats contain pork or beef, but may also contain other meats including poultry and offal (e.g. liver) or meat by-products such as blood. Red meat contains proteins of high biological value, and important micronutrients such as B vitamins, iron (both free iron and haem iron), and zinc. Carcinogens, including heterocyclic aromatic amines and polycyclic aromatic hydrocarbons, can be produced by cooking of meat, with greatest amounts generated at high temperatures by pan-frying, grilling, or barbecuing. Meat processing such as curing and smoking can result in formation of carcinogenic chemicals including N-nitroso compounds and polycyclic aromatic hydrocarbons. An IARC Monographs Working Group reviewed epidemiological evidence, animal bioassays, and mechanistic and other relevant data to reach conclusions as to the carcinogenic hazard to humans of the consumption of red meat and processed meat. The Working Group assessed more than 800 epidemiological studies that investigated the association of cancer (more than 15 types) with consumption of red meat or processed meat, including large cohorts in many countries, from several continents, with diverse ethnicities and diets.

How Tobacco Smoke Causes Disease 2010 This report considers the biological and behavioral mechanisms that may underlie the pathogenicity of tobacco smoke. Many Surgeon General's reports have considered research findings on mechanisms in assessing the biological plausibility of associations observed in epidemiologic studies. Mechanisms of disease are important because they may provide plausibility, which is one of the guideline criteria for assessing evidence on causation. This report specifically reviews the evidence on the potential mechanisms by which smoking causes diseases and considers whether a mechanism is likely to be operative in the production of human disease by tobacco smoke. This evidence is relevant to understanding how smoking causes disease, to identifying those who may be particularly susceptible, and to assessing the potential risks of tobacco products.

Toxic Chemical and Biological Agents Giovanni Sindona 2020-10-19 This book critically assesses the current state of knowledge on new and important detection technologies, e.g. mass spectrometry, tandem mass spectrometry, biosensor detection and tissue imaging, in connection with toxic chemical and biological agents. In general, the main topics discussed concern the risks and consequences of chemical and biological agents for human health in general, with special emphasis on all biochemical and metabolic pathways including the reproductive system. The exposome, genetic risks and the environment, various health hazard agents, risk assessment, environmental assessment and preparedness, and analysis of sub-lethal effects at the molecular level are also discussed. In closing, the book provides comprehensive information on the diagnosis of exposure, and on health concerns related to toxic chemical and biological agents.

Genetics and Genomics of Setaria Andrew Doust 2016-12-19 *Setaria viridis* and *S.italica* make up a model grass system to investigate C4 photosynthesis, cell wall biosynthesis, responses to drought, herbicide, and other environmental stressors, genome dynamics, developmental genetics and morphology, and interactions with microorganisms. *Setaria viridis* (green foxtail) is one of the world's most widespread weeds, and its small size, native variation, rapidly burgeoning genetic and genomic resources, and transformability are making it the system of choice for both basic research and its translation into crop improvement. Its domesticated variant, *S. italica* (foxtail millet), is a drought-hardy cereal grown in China, India and Africa, and new breeding techniques show great potential for improving yields and nutrition for drought-prone regions. This book brings together for the first time evolutionary, genomic, genetic, and morphological analyses, together with protocols for growing and transforming *Setaria*, and approaches to high throughput genotyping and candidate gene analysis. Authors include major *Setaria* researchers from both the USA and overseas.

Physical Activity and Cancer Kerry S. Courneya 2010-11-26 This book explores in depth the relation between physical activity and cancer control, including primary prevention, coping with treatments, recovery after treatments, long-term survivorship, secondary prevention, and survival. The first part of the book presents the most recent research on the impact of physical activity in preventing a range of cancers. In the second part, the association between physical activity and cancer survivorship is addressed. The effects of physical activity on supportive care endpoints (e.g., quality of life, fatigue, physical functioning) and disease endpoints (e.g., biomarkers, recurrence, survival) are carefully analyzed. In addition, the determinants of physical activity in cancer survivors are discussed, and behavior change strategies for increasing physical activity in cancer survivors are appraised. The final part of the book is devoted to special topics, including the relation of physical activity to pediatric cancer survivorship and to palliative cancer care.

Adapting to Climate Change W. Neil Adger 2009-06-25 This presents top scientific research by leading researchers and practitioners on the critical issue of adapting to climate change.

Climate change: Unpacking the burden on food safety Food and Agriculture Organization of the United Nations 2020-03-01 Climate change is causing unprecedented damage to our ecosystem. Increasing temperatures, ocean warming and acidification, severe droughts, wildfires, altered precipitation patterns, melting glaciers, rising sea levels and amplification of extreme weather events have direct implications for our food systems. While the impacts of such environmental factors on food security are well known, the effects on food safety receive less attention. The purpose of *Climate change: Unpacking the burden on food safety* is to identify and attempt to quantify some current and anticipated food safety issues that are associated with climate change. The food safety hazards considered in the publication are foodborne pathogens and parasites, harmful algal blooms, pesticides, mycotoxins and heavy metals with emphasis on methylmercury. There is also, a dedicated section on the benefits of forward-looking approaches such as horizon scanning and foresight, which will not only aid in anticipating future challenges in a shifting global food safety landscape, but also help build resilient food systems that can be continually updated as more knowledge is assimilated. By building a more widespread and better understanding of the consequences climate change has on food safety,

it is hoped that this document will aid in fostering stronger international cooperation in making our food safer by reducing the global burden of these concerns.

Genetic Algorithms in Search, Optimization, and Machine Learning David Edward Goldberg 1989 A gentle introduction to genetic algorithms. Genetic algorithms revisited: mathematical foundations. Computer implementation of a genetic algorithm. Some applications of genetic algorithms. Advanced operators and techniques in genetic search. Introduction to genetics-based machine learning. Applications of genetics-based machine learning. A look back, a glance ahead. A review of combinatorics and elementary probability. Pascal with random number generation for fortran, basic, and cobol programmers. A simple genetic algorithm (SGA) in pascal. A simple classifier system(SCS) in pascal. Partition coefficient transforms for problem-coding analysis.

Comparative Quantification of Health Risks: Sexual and reproductive health Majid Ezzati 2004 Accompanying CD-ROM contains annex tables detailing population attributable fractions, mortality, and disease burden for selected major risk factors.

Polymer Nanocomposites Xingyi Huang 2016-05-06 This book focuses on the fundamental principles and recent progress in the field of electrical and thermal properties of polymer nanocomposites. The physical and chemical natures determining the electrical and thermal properties of polymer nanocomposites are discussed in detail. The authors describe the range of traditional and emerging polymer nanocomposites from nanoparticle and polymer composites to novel nanostructure based polymer nanocomposites. They include novel properties and potential applications, such as high-k, low-k, high thermal conductivity, antistatic, high voltage insulation, electric stress control, and thermal energy conversion among others.

Strategic Latency Unleashed Zachary Davis 2021-01-30 The world is being transformed physically and politically. Technology is the handmaiden of much of this change. But since the current sweep of global change is transforming the face of warfare, Special Operations Forces (SOF) must adapt to these circumstances. Fortunately, adaptation is in the SOF DNA. This book examines the changes affecting SOF and offers possible solutions to the complexities that are challenging many long-held assumptions. The chapters explore what has changed, what stays the same, and what it all means for U.S. SOF. The authors are a mix of leading experts in technology, business, policy, intelligence, and geopolitics, partnered with experienced special operators who either cowrote the chapters or reviewed them to ensure accuracy and relevance for SOF. Our goal is to provide insights into the changes around us and generate ideas about how SOF can adapt and succeed in the emerging operational environment.

Language, Culture, and Mind Paul Kockelman 2010-02-18 Based on fieldwork carried out in a Mayan village in Guatemala, this book examines local understandings of mind through the lens of language and culture. It focuses on a variety of grammatical structures and discursive practices through which mental states are encoded and social relations are expressed: inalienable possessions, such as body parts and kinship terms; interjections, such as 'ouch' and 'yuck'; complement-taking predicates, such as 'believe' and 'desire'; and grammatical categories such as mood, status and evidentiality. And, more generally, it develops a theoretical framework through which both community-specific and human-general features of mind may be contrasted and compared. It will be of interest to researchers and students working within the disciplines of anthropology, linguistics, psychology, and philosophy.