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Environmental Contaminants: Ecological Implications and Management

CPP, Cell-Penetrating Peptides

Country Reports on Human Rights Practices for 2008

Materials for Architects and Builders

Preharvest Food Safety

The Uncertain Future of Fraser River Sockeye: Causes of the decline

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Land Tenure Stories in Central Mindanao

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Natural Language Processing with Python

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## **ANASTASIA SANTOS**

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### **Environmental Contaminants: Ecological Implications and Management**

John Wiley & Sons

New analytical strategies and techniques are necessary to meet requirements of modern technologies and new materials.

In this sense, this book provides a thorough review of current analytical approaches, industrial practices, and strategies in Fourier transform application.

### *CPP, Cell-Penetrating Peptides* SAGE

This book is a printed edition of the Special Issue "Control of Communicable Diseases in Human and in Animal Populations: 70th Anniversary Year of the Birth of Professor Rick Speare (2 August 1947 - 5 June 2016)" that was published in TropicalMed

### **Country Reports on Human Rights Practices for 2008** MDPI

Describes the policy, criteria and procedures for maintaining fire protection systems at military installations.

*Materials for Architects and Builders*

Springer

This second edition of *Microplastic Contamination in Aquatic Environments: An Emerging Matter of Environmental Urgency* presents 14 chapters, through which a team of global, expert contributors cover a full range of microplastic research. The first chapter describes the general patterns for sources, occurrence, and transport of microplastics to lead off the book. The next batch of chapters covers sampling analytical methods for quantifying microplastics in the environment, followed by chapters addressing the association of chemicals with microplastics. A large cluster of chapters focus on the fate and transport of microplastics in wastewater treatment plants, freshwater systems, marine

environment, terrestrial settings, and riverine runoff that connects terrestrial and marine systems. The next few chapters examine biotransport and effects of microplastics in organisms. The last two chapters are dedicated to two emerging research areas: nanoplastics in the environment and management strategies for global plastic pollution. Outlooks for future research to better understand the situation and further improvements of microplastic research are also covered. In the 6 years since the previous edition published, this fast-moving area has evolved, and the contents of this revision reflect that. There are numerous brand-new chapters, chapters that have been revised, and chapters that have been completely refocused. This book

provides an overview of microplastics research. It is a guide for researchers to better understand the occurrence of microplastics. Ideally, this book provides basic background knowledge of microplastics for oceanographers, ecologists, and climatologists. Provides an overview of the advantages and disadvantages of different methods for sampling, identification, and enumeration of microplastics Contains contributions from world experts with a diverse range of backgrounds, all brought together by a well-known, experienced editor Presents information on microplastics in a unified place, with easy access for the reader  
Preharvest Food Safety Cambridge University Press  
This book offers a highly accessible

introduction to natural language processing, the field that supports a variety of language technologies, from predictive text and email filtering to automatic summarization and translation. With it, you'll learn how to write Python programs that work with large collections of unstructured text. You'll access richly annotated datasets using a comprehensive range of linguistic data structures, and you'll understand the main algorithms for analyzing the content and structure of written communication. Packed with examples and exercises, Natural Language Processing with Python will help you: Extract information from unstructured text, either to guess the topic or identify "named entities" Analyze linguistic structure in text,

including parsing and semantic analysis  
 Access popular linguistic databases,  
 including WordNet and treebanks  
 Integrate techniques drawn from fields  
 as diverse as linguistics and artificial  
 intelligence This book will help you gain  
 practical skills in natural language  
 processing using the Python  
 programming language and the Natural  
 Language Toolkit (NLTK) open source  
 library. If you're interested in developing  
 web applications, analyzing multilingual  
 news sources, or documenting  
 endangered languages -- or if you're  
 simply curious to have a programmer's  
 perspective on how human language  
 works -- you'll find Natural Language  
 Processing with Python both fascinating  
 and immensely useful.  
*The Uncertain Future of Fraser River*

*Sockeye: Causes of the decline* John  
 Wiley & Sons  
 This book provides a comprehensive  
 overview of music data analysis, from  
 introductory material to advanced  
 concepts. It covers various applications  
 including transcription and segmentation  
 as well as chord and harmony,  
 instrument and tempo recognition. It  
 also discusses the implementation  
 aspects of music data analysis such as  
 architecture, user interface and  
 hardware. It is ideal for use in university  
 classes with an interest in music data  
 analysis. It also could be used in  
 computer science and statistics as well  
 as musicology.  
*Habermas* CRC Press  
*A Companion to Contemporary Britain*  
 covers the key themes and debates of

20th-century history from the outbreak of the Second World War to the end of the century. Assesses the impact of the Second World War Looks at Britain's role in the wider world, including the legacy of Empire, Britain's 'special relationship' with the United States, and integration with continental Europe Explores cultural issues, such as class consciousness, immigration and race relations, changing gender roles, and the impact of the mass media Covers domestic politics and the economy Introduces the varied perspectives dominating historical writing on this period Identifies the key issues which are likely to fuel future debate

International Fire Engineering Guidelines  
Springer Science & Business Media

As we know, rapid industrialization is a

serious concern in the context of a healthy environment. Various physico-chemical and biological approaches for the removal of toxic pollutants are available, but unfortunately these are not very effective. Biological approaches using microorganisms (bacterial/fungi/algae), green plants or their enzymes to degrade/detoxify environmental contaminants such as endocrine disrupting chemicals, toxic metals, pesticides, dyes, petroleum hydrocarbons and phenolic compounds are eco-friendly and low cost. This book provides a much-needed, comprehensive overview of the various types of contaminants, their toxicological effects on the environment, humans, animals and plants as well as various eco-friendly approaches for their

management (degradation/detoxification). As such it is a valuable resource for a wide range of students, scientists and researchers in microbiology, biotechnology, environmental sciences.

Land Tenure Stories in Central Mindanao  
"O'Reilly Media, Inc."

This book concentrates on the marine mammalian group of Odontocetes, the toothed whales, dolphins, and porpoises. In 23 chapters, a total of 40 authors describe general patterns of ethological concepts of odontocetes in their natural environments, with a strong bent towards behavioral ecology. Examples are given of particularly well-studied species and species groups for which enough data exist, especially from the past 15 years. The aim is to give a

modern flavor of present knowledge of ethology and behavior of generally large-brained behaviorally flexible mammals that have evolved quite separately from social mammals on land. As well, the plight of populations and species due to humans is described in multiple chapters, with the goal that an understanding of behavior can help to solve or alleviate at least some human-made problems.

**The Pope, the Public, and International Relations** CFA Institute  
Research Foundation

Pine wilt disease (PWD) is unquestionably a major threat to forest ecosystems worldwide. After seriously affecting Eastern Asian countries, the challenge is now in Europe, following its detection in Portugal in 1999 and its



subsequent spread. For foresters, these were really very bad news and, in order for adequate action to be taken, scientists had to teach politicians about the seriousness of the problem. That is never an easy task, but it was successfully done at that time, mainly by the continued effort of Professor Manuel Mota. The challenge of having political decisions based on good science is fundamental for the success of any program, but especially in difficult situations such as those arising by the introduction of harmful organisms in new ecosystems. The success of the dialogue between science and policy requires intelligent partners from each side, which is not always necessarily the case... Examples of lack of recognition of problems raised by science are

unfortunately abundant throughout the history of science. The recent recognition of the efforts of the Intergovernmental Panel on Climate Change (IPCC) and Al Gore with the Nobel Prize, and the continued failure in taking appropriate actions by major political players is a dramatic modern example of the difficulty of this dialogue...

*Investment Governance for Fiduciaries*  
Springer Nature

Designed for advanced undergraduate or first-year graduate courses in semiconductor or microelectronic fabrication, the third edition of Fabrication Engineering at the Micro and Nanoscale provides a thorough and accessible introduction to all fields of micro and nano fabrication.

**Natural Language Processing with**

**Python** Weidenfeld & Nicolson

Governance is a word that is increasingly heard and read in modern times, be it corporate governance, global governance, or investment governance. Investment governance, the central concern of this modest volume, refers to the effective employment of resources—people, policies, processes, and systems—by an individual or governing body (the fiduciary or agent) seeking to fulfil their fiduciary duty to a principal (or beneficiary) in addressing an underlying investment challenge. Effective investment governance is an enabler of good stewardship, and for this reason it should, in our view, be of interest to all fiduciaries, no matter the size of the pool of assets or the nature of the beneficiaries. To emphasize the

importance of effective investment governance and to demonstrate its flexibility across organization type, we consider our investment governance process within three contexts: defined contribution (DC) plans, defined benefit (DB) plans, and endowments and foundations (E&Fs). Since the financial crisis of 2007–2008, the financial sector’s place in the economy and its methods and ethics have (rightly, in many cases) been under scrutiny. Coupled with this theme, the task of investment governance is of increasing importance due to the sheer weight of money, the retirement savings gap, demographic trends, regulation and activism, and rising standards of behavior based on higher expectations from those fiduciaries serve. These

trends are at the same time related and self-reinforcing. Having explored the why of investment governance, we dedicate the remainder of the book to the question of how to bring it to bear as an essential component of good fiduciary practice. At this point, the reader might expect investment professionals to launch into a discussion about an investment process focused on the best way to capture returns. We resist this temptation. Instead, we contend that achieving outcomes on behalf of beneficiaries is as much about managing risks as it is about capturing returns—and we mean “risks” broadly construed, not just fluctuations in asset values.

Maintenance of Fire Protection Systems  
John Wiley & Sons

An overview of farm-to-fork safety in the preharvest realm Foodborne outbreaks continue to take lives and harm economies, making controlling the entry of pathogens into the food supply a priority. Preharvest factors have been the cause of numerous outbreaks, including *Listeria* in melons, *Salmonella* associated with tomatoes, and Shiga toxin-producing *E.coli* in beef products, yet most traditional control measures and regulations occur at the postharvest stage. Preharvest Food Safety covers a broad swath of knowledge surrounding topics of safety at the preharvest and harvest stages, focusing on problems for specific food sources and food pathogens, as well as new tools and potential solutions. Led by editors Siddhartha Thakur and Kalmia Kniel, a

team of expert authors provides insights into critical themes surrounding preharvest food safety, including Challenges specific to meat, seafood, dairy, egg, produce, grain, and nut production Established and emerging foodborne and agriculture-related pathogens Influences of external factors such as climate change and the growing local-foods trend Regulatory issues from both US and EU perspectives Use of pre- and probiotics, molecular tools, mathematical modeling, and one health approaches Intended to encourage the scientific community and food industry stakeholders to advance their knowledge of the developments and challenges associated with preharvest food safety, this book addresses the current state of the field and provides a diverse array of

chapters focused on a variety of food commodities and microbiological hazards.

**Patient Capital** Princeton University Press

How to overcome barriers to the long-term investments that are essential for solving the world's biggest problems There has never been a greater need for long-term investments to tackle the world's most difficult problems, such as climate change, human health, and decaying infrastructure. And it is increasingly unlikely that the public sector will be willing or able to fill this gap. If these critical needs are to be met, the major pools of long-term, patient capital—including pensions, sovereign wealth funds, university endowments, and wealthy individuals and

families—will have to play a large role. In this accessible and authoritative account of long-term capital investment, two leading experts on the subject, Victoria Ivashina and Josh Lerner, highlight the significant hurdles facing long-term investors and propose concrete ways to overcome these difficulties.

**State Planning Policy 3.1** Springer

A new and refreshingly different approach to presenting the foundations of statistical algorithms, *Foundations of Statistical Algorithms: With References to R Packages* reviews the historical development of basic algorithms to illuminate the evolution of today's more powerful statistical algorithms. It emphasizes recurring themes in all statistical algorithms, including computation, assessment and

verification, iteration, intuition, randomness, repetition and parallelization, and scalability. Unique in scope, the book reviews the upcoming challenge of scaling many of the established techniques to very large data sets and delves into systematic verification by demonstrating how to derive general classes of worst case inputs and emphasizing the importance of testing over a large number of different inputs. Broadly accessible, the book offers examples, exercises, and selected solutions in each chapter as well as access to a supplementary website. After working through the material covered in the book, readers should not only understand current algorithms but also gain a deeper understanding of how algorithms are

constructed, how to evaluate new algorithms, which recurring principles are used to tackle some of the tough problems statistical programmers face, and how to take an idea for a new method and turn it into something practically useful.

### **Foundations of Statistical**

**Algorithms** World Health Organization  
This book comprises select proceedings of the international conference ETAEERE 2020, and focuses on contemporary issues in energy management and energy efficiency in the context of power systems. The contents cover modeling, simulation and optimization based studies on topics like medium voltage BTB system, cost optimization of a ring frame unit in textile industry, rectenna for RF energy harvesting, ecology and

energy dimension in infrastructural designs, study of AGC in two area hydro thermal power system, energy-efficient and reliable depth-based routing protocol for underwater wireless sensor network, and power line communication. This book can be beneficial for students, researchers as well as industry professionals.

*Harbour Porpoises in the North Atlantic*  
ASM Press

The papers and posters in this volume were presented at the conference 'Tempera painting between 1800 and 1950 Experiments and innovations from the Nazarene movement to abstract art held at the Doerner Institut, in cooperation with the Academy of Fine Arts, Munich. They explore the revival of tempera painting between 1800 and

1950 from the perspectives of art history, technical art history, conservation and scientific analysis.

**Ethology and Behavioral Ecology of Odontocetes** Springer Nature

This edited volume engages a long-standing religious power, the Holy See, to discuss the impact of the structural and postsecular transformations of international relations through the emergence of a global and digital public sphere. Despite the legal construction that enables the separation of the Holy See as a distinct legal entity, it is also an instrument for the papacy to represent externally and regulate internally the global and transnational Catholic Church. The Holy See is also the tool that enables the papacy to address a transnational or a global public beyond

Catholic adherence – most prominently through journeys that are often at the same time state visits and pastoral journeys. Instead of understanding these hybrid roles as an irregular exemption, the contributions of the book argue that the Holy See should be seen as a certainly special but nevertheless quite normal actor of international and public diplomacy.

*Encyclopedia of Wildfires and Wildland-Urban Interface (WUI) Fires* Springer Nature

In this book, a summary and update of the most important areas of cell-penetrating peptides (CPP) research are presented, while raising relevant questions for further development. The CPP sequences are presented and discussed throughout the book. The

methods for testing CPP mechanisms are discussed in detail. Various approaches for the testing of endocytotic pathways of CPP uptake are also described. Different CPP uptake experiments are compared since it is becoming clear that it is often best to apply several methods in a complementary manner in order to most comprehensively evaluate CPP uptake mechanisms due to the complexity of these processes. A brief summary of functionality issues of CPPs, both in vitro and in vivo, is discussed. Therapeutic potential of CPPs and commercial developments are discussed. The present, second edition of this book is the updated and expanded version of the first edition, published in 2019. The development of the field of cell-penetrating peptides in

these five years has been obvious and exciting. This second edition of the book has been partly reorganized and comprehensively expanded with the exciting research in 2019-2023. Around 2500 novel scientific articles have become available, most of them are reviewed in the second edition.

Additional rapidly growing areas of high impact presented in this second edition are therapeutic developments (Chapter 16) and delivery of oligonucleotides and proteins/peptides (Chapters 5 and 6) including novel reports on genome editing with CPP assistance. Also, several additional examples are available now on clinical trials using CPPs (Chapter 15). The book is written for researchers and students in the field.

Piracy and the Privatisation of Maritime



### Security Springer

This reference work encompasses the current, accepted state of the art in the science of wildfires and wildfires that spread to communities, known as wildland-urban interface (WUI) fires. 171 author contributions include accepted knowledge on these topics from throughout the world, all written by the leading researchers, experts, practitioners, and academics. This encyclopedia is an invaluable reference for newcomers to the field, as well as researchers, students, developers, and

professionals who are interested in exploring this dynamic area. General Sections include: Combustion Coordination System Locations Fire Whirls Firebrands and Embers Incident Management Team (IMT) Support Locations Incident Response Support Locations On-the-Incident Locations Soot and Effects on Wildland/WUI Fire Behavior Weathering Effects on Fire Retardant Wood Treatments Wildland Firefighting Locations Wildland Fuel Treatments

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