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Emissions Scenarios 2000 Why new Intergovernmental panel on climate change scenarios? What are scenarios and what is their purpose? What are the main characteristics of the new scenarios? What are the main driving forces of the GHG emissions in the scenarios? What is the range of GHG emissions in the SRES scenarios and how do they related to driving forces? How can the SRES scenarios be used; What future work on emissions scenarios would be useful? List of IPCC outputs.
Confocal Raman Microscopy Jan Toporski 2018-03-01 This second edition provides a cutting-edge overview of physical, technical and scientific aspects related to the widely used analytical method of confocal Raman microscopy. The book includes expanded background information and adds insights into how confocal Raman microscopy, especially 3D Raman imaging, can be integrated with other methods to

produce a variety of correlative microscopy combinations. The benefits are then demonstrated and supported by numerous examples from the fields of materials science, 2D materials, the life sciences, pharmaceutical research and development, as well as the geosciences.

Membrane Gas Separation Benny Freeman 2011-06-20 Gas separation membranes offer a number of benefits over other separation technologies, and they play an increasingly important role in reducing the environmental impacts and costs of many industrial processes. This book describes recent and emerging results in membrane gas separation, including highlights of nanoscience and technology, novel polymeric and inorganic membrane materials, new membrane approaches to solve environmental problems e.g. greenhouse gases, aspects of membrane engineering, and recent achievements in industrial gas separation. It includes: Hyperbranched polyimides, amorphous glassy polymers and perfluorinated copolymers Nanocomposite (mixed matrix) membranes Polymeric magnetic membranes Sequestration of CO2 to reduce global warming Industrial applications of gas separation Developed from sessions of the most recent International Congress on Membranes and Membrane Processes, Membrane Gas Separation gives a snapshot of the current situation, and presents both fundamental results and applied achievements.

Proceedings of the 9th International Symposium on Superalloy 718 & Derivatives: Energy, Aerospace, and Industrial Applications Eric Ott 2018-05-12 This technical meeting will focus on Alloy 718 and Superalloys in this class relative to alloy and process development, production, product applications, trends and the development of advanced modeling tools. The symposium provides an opportunity for authors to present technical advancements relative to a broad spectrum of areas while assessing their impact on related fields associated with this critical alloy group. There are continuing innovations relative to these alloys as well as novel processing techniques which continue to extend applications in very challenging environments ranging from corrosion resistance in the deep sea to high-stressed space

applications.
Vibration-based Condition Monitoring Robert Bond Randall 2011-03-25 "Without doubt the best modern and up-to-date text on the topic, wirtten by one of the world leading experts in the field. Should be on the desk of any practitioner or researcher involved in the field of Machine Condition Monitoring" Simon Braun, Israel Institute of Technology Explaining complex ideas in an easy to understand way, Vibration-based Condition Monitoring provides a comprehensive survey of the application of vibration analysis to the condition monitoring of machines. Reflecting the natural progression of these systems by presenting the fundamental material and then moving onto detection, diagnosis and prognosis, Randall presents classic and state-of-the-art research results that cover vibration signals from rotating and reciprocating machines; basic signal processing techniques; fault detection; diagnostic techniques, and prognostics. Developed out of notes for a course in machine condition monitoring given by Robert Bond Randall over ten years at the University of New South Wales, Vibration-based Condition Monitoring: Industrial, Aerospace and Automotive Applications is essential reading for graduate and postgraduate students/ researchers in machine condition monitoring and diagnostics as well as condition monitoring practitioners and machine manufacturers who want to include a machine monitoring service with their product. Includes a number of exercises for each chapter, many based on Matlab, to illustrate basic points as well as to facilitate the use of the book as a textbook for courses in the topic. Accompanied by a website www.wiley.com/go/randall housing exercises along with data sets and implementation code in Matlab for some of the methods as well as other pedagogical aids. Authored by an internationally recognised authority in the area of condition monitoring.
Young Adult Offenders Friedrich Lösel 2012-07-26 This latest volume in the Cambridge Criminal Justice Series focuses upon young adults and their treatment in the criminal justice system. The subject is very topical because there is increasing evidence that a rigid distinction between ‘youth’ and ‘adulthood’ is not appropriate in modern societies. For example, important developmental tasks such as finishing one’s

education, finding regular work and the foundation of one's own family are now completed later than in former times; neuropsychological brain functions are still developing beyond age 18; and desistance from criminal offending occurs most rapidly in early adulthood. Despite such evidence, the United Kingdom and other countries have largely neglected policies for young adult offenders in comparison with young people under 18. Although there seems to be no general transnational solution for this problem, there is a clear need for differentiation. This book brings together leading authorities in the field to analyse theoretical, empirical and policy issues relating to this neglected group of people, exploring different approaches to both crime prevention and offender treatment. It will be of interest to researchers, practitioners and policy makers in the fields of criminology, criminal justice, prisons, probation, forensic psychology and psychiatry, sociology, education and social work.

Quantitative Texture Analysis Hans Joachim Bunge 1982

Introduction to Internal Combustion Engines Richard Stone 2017-09-16 Now in its fourth edition, this textbook remains the indispensable text to guide readers through automotive or mechanical engineering, both at university and beyond. Thoroughly updated, clear, comprehensive and well-illustrated, with a wealth of worked examples and problems, its combination of theory and applied practice aids in the understanding of internal combustion engines, from thermodynamics and combustion to fluid mechanics and materials science. This textbook is aimed at third year undergraduate or postgraduate students on mechanical or automotive engineering degrees. New to this Edition: - Fully updated for changes in technology in this fast-moving area - New material on direct injection spark engines, supercharging and renewable fuels - Solutions manual online for lecturers

Handbook on Metalloproteins Ivano Bertini 2001-06-29 This Handbook on Metalloproteins focuses on the available structural information of proteins and their metal ion coordination spheres. It centers on the metal ions indispensable for life but also considers metal ions used as substitution probes in studies of metalloproteins. Emphasizing the structure-function relationship, the book covers the common and

distinct characterstics of metallo- enzymes, proteins, and amino acids bonded to copper, zinc, iron, and more.

Chemical Looping Systems for Fossil Energy Conversions Liang-Shih Fan 2011-02-14 This book presents the current carbonaceous fuel conversion technologies based on chemical looping concepts in the context of traditional or conventional technologies. The key features of the chemical looping processes, their ability to generate a sequestration-ready CO2 stream, are thoroughly discussed. Chapter 2 is devoted entirely to the performance of particles in chemical looping technology and covers the subjects of solid particle design, synthesis, properties, and reactive characteristics. The looping processes can be applied for combustion and/or gasification of carbon-based material such as coal, natural gas, petroleum coke, and biomass directly or indirectly for steam, syngas, hydrogen, chemicals, electricity, and liquid fuels production. Details of the energy conversion efficiency and the economics of these looping processes for combustion and gasification applications in contrast to those of the conventional processes are given in Chapters 3, 4, and 5.Finally, Chapter 6 presents additional chemical looping applications that are potentially beneficial, including those for H2 storage and onboard H2 production, CO2 capture in combustion flue gas, power generation using fuel cell, steam-methane reforming, tar sand digestion, and chemicals and liquid fuel production. A CD is appended to this book that contains the chemical looping simulation files and the simulation results based on the ASPEN Plus software for such reactors as gasifier, reducer, oxidizer and combustor, and for such processes as conventional gasification processes, Syngas Chemical Looping Process, Calcium Looping Process, and Carbonation-Calcination Reaction (CCR) Process. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Advances in Wheat Genetics: From Genome to Field Yasunari Ogihara 2015-09-15 This proceedings is a collection of 46 selected papers that were presented at the 12th International Wheat Genetics Symposium (IWGS). Since the launch of the wheat genome sequencing project in 2005, the arrival of

draft genome sequences has marked a new era in wheat genetics and genomics, catalyzing rapid advancement in the field. This book provides a comprehensive review of the forefront of wheat research, across various important topics such as germplasm and genetic diversity, cytogenetics and allopolyploid evolution, genome sequencing, structural and functional genomics, gene function and molecular biology, biotic stress, abiotic stress, grain quality, and classical and molecular breeding. Following an introduction, 9 parts of the book are dedicated to each of these topics. A final, 11th part entitled “Toward Sustainable Wheat Production” contains 7 excellent papers that were presented in the 12th IWGS Special Session supported by the OECD. With rapid population growth and radical climate changes, the world faces a global food crisis and is in need of another Green Revolution to boost yields of wheat and other widely grown staple crops. Although this book focuses on wheat, many of the newly developed techniques and results presented here can be applied to other plant species with large and complex genomes. As such, this volume is highly recommended for all students and researchers in wheat sciences and related plant sciences and for those who are interested in stable food production and food security.
Next Generation Society Technological and Legal Issues Alexander B. Sideridis 2010-01-26 Recent developments in information and communication technology (ICT) have paved the way for a world of advanced communication, intelligent information processing and ubiquitous access to information and services. The ability to work, communicate, interact, conduct business, and enjoy digital entertainment virtually anywhere is r- idly becoming commonplace due to a multitude of small devices, ranging from mobile phones and PDAs to RFID tags and wearable computers. The increasing number of connected devices and the proliferation of networks provide no indication of a sl- down in this tendency. On the negative side, misuse of this same technology entails serious risks in various aspects, such as privacy violations, advanced electronic crime, cyber terrorism, and even enlargement of the digital divide. In extreme cases it may even threaten basic principles and human rights. The aforementioned issues raise an important question: Is our society ready to adopt the technological advances in ubiq- tous networking,

next-generation Internet, and pervasive computing? To what extent will it manage to evolve promptly and efficiently to a next-generation society, ado- ing the forthcoming ICT challenges? The Third International ICST Conference on e-Democracy held in Athens, Greece during September 23–25, 2009 focused on the above issues. Through a compreh- sive list of thematic areas under the title “Next-Generation Society: Technological and Legal issues,” the 2009 conference provided comprehensive reports and stimulated discussions on the technological, ethical, legal, and political challenges ahead of us.
Bone Pathology Jasvir S. Khurana 2009-12-02 Bone Pathology is the second edition of the book, A Compendium of Skeletal Pathology that published 10 years ago. Similar to the prior edition, this book complements standard pathology texts and blends new but relatively established information on the molecular biology of the bone. Serving as a bench-side companion to the surgical pathologist, this new edition reflects new advances in our understanding of the molecular biology of bone. New chapters on soft-tissue sarcomas and soft-tissue tumors have been added as well as several additional chapters such as Soft-tissue pathology and Biomechanics. The volume is written by experts who are established in the field of musculoskeletal diseases. Bone Pathology is a combined effort from authors of different specialties including surgeons, pathologists, radiologists and basic scientists all of whom have in common an interest in bone diseases. It will be of great value to surgical pathology residents as well as practicing pathologists, skeletal radiologists, orthopedic surgeons and medical students.
Projected Costs of Generating Electricity Nea 1998 This is the fifth study in a series on the future costs of generating electricity. It reviews cost estimates for power plants using nuclear, coal, gas and renewable energy sources.
Guide to Vulnerability Analysis for Computer Networks and Systems Simon Parkinson 2018-09-04 This professional guide and reference examines the challenges of assessing security vulnerabilities in computing infrastructure. Various aspects of vulnerability assessment are covered in detail, including recent advancements in reducing the requirement for expert knowledge through novel applications of

artificial intelligence. The work also offers a series of case studies on how to develop and perform vulnerability assessment techniques using start-of-the-art intelligent mechanisms. Topics and features: provides tutorial activities and thought-provoking questions in each chapter, together with numerous case studies; introduces the fundamentals of vulnerability assessment, and reviews the state of the art of research in this area; discusses vulnerability assessment frameworks, including frameworks for industrial control and cloud systems; examines a range of applications that make use of artificial intelligence to enhance the vulnerability assessment processes; presents visualisation techniques that can be used to assist the vulnerability assessment process. In addition to serving the needs of security practitioners and researchers, this accessible volume is also ideal for students and instructors seeking a primer on artificial intelligence for vulnerability assessment, or a supplementary text for courses on computer security, networking, and artificial intelligence.

Oxygen-Enhanced Combustion, Second Edition Charles E. Baukal Jr. 2013-03-15 Combustion technology has traditionally been dominated by air/fuel combustion. However, two developments have increased the significance of oxygen-enhanced combustion—new technologies that produce oxygen less expensively and the increased importance of environmental regulations. Advantages of oxygen-enhanced combustion include less pollutant emissions as well as increased energy efficiency and productivity. Oxygen-Enhanced Combustion, Second Edition compiles information about using oxygen to enhance industrial heating and melting processes. It integrates fundamental principles, applications, and equipment design in one volume, making it a unique resource for specialists implementing the use of oxygen in combustion systems. This second edition of the bestselling book has more than doubled in size. Extensively updated and expanded, it covers significant advances in the technology that have occurred since the publication of the first edition. What’s New in This Edition Expanded from 11 chapters to 30, with most of the existing chapters revised A broader view of oxygen-enhanced combustion, with more than 50 contributors from over 20 organizations around the world More coverage of fundamentals,

including fluid flow, heat transfer, noise, flame impingement, CFD modeling, soot formation, burner design, and burner testing New chapters on applications such as flameless combustion, steel reheating, iron production, cement production, power generation, fluidized bed combustion, chemicals and petrochemicals, and diesel engines This book offers a unified, up-to-date look at important commercialized uses of oxygen-enhanced combustion in a wide range of industries. It brings together the latest knowledge to assist those researching, engineering, and implementing combustion in power plants, engines, and other applications.

Marine Biotoxins Hans P. Egmond 2004 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), and discusses in detail the causative toxins produced by marine organisms, chemical structures and analytical methods of the toxins, 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 effect of these toxins on public health.

Physics and Technology of Silicon Carbide Devices George Gibbs 2016-10-01 Silicon (Si) is by far the most widely used semiconductor material for power devices. On the other hand, Si-based power devices are approaching their material limits, which has provoked a lot of efforts to find alternatives to Si-based power devices for better performance. With the rapid innovations and developments in the semiconductor industry, Silicon Carbide (SiC) power devices have progressed from immature prototypes in laboratories to a viable alternative to Si-based power devices in high-efficiency and high-power density applications. SiC devices have numerous persuasive advantages--high-breakdown voltage, high-operating electric field, high-operating temperature, high-switching frequency and low losses. Silicon Carbide (SiC) devices belong to the so-called wide band gap semiconductor group, which offers a number of attractive

characteristics for high voltage power semiconductors when compared to commonly used silicon (Si). Recently, some SiC power devices, for example, Schottky-barrier diodes (SBDs), metal-oxide-semiconductor field-effecttransistors (MOSFETs), junction FETs (JFETs), and their integrated modules have come onto the market. Physics and Technology of Silicon Carbide Devices abundantly describes recent technologies on manufacturing, processing, characterization, modeling, etc. for SiC devices.
Liver Disease in Children Frederick J. Suchy 2014-02-20 The fourth edition of this authoritative text covers every aspect of liver disease affecting infants, children and adolescents. As in the previous editions, it offers an integrative approach to the science and clinical practice of pediatric hepatology and charts the substantial progress in understanding and treating these diseases. All of the chapters are written by international experts and address the unique pathophysiology, manifestations and management of these disorders. This edition of the landmark text features extended coverage of viral hepatitis, metabolic liver disease, fatty liver disease and liver transplantation, including a new chapter on post-transplant care and outcomes. All of the chapters have been updated to reflect changing epidemiology and recent advances in molecular medicine and genomics. With the continued evolution of pediatric hepatology as a discipline, this text remains an essential reference for all physicians involved in the care of children with liver disease.
Mineral Nutrition of Higher Plants Horst Marschner 1995 This text presents the principles of mineral nutrition in the light of current advances. For this second edition more emphasis has been placed on root water relations and functions of micronutrients as well as external and internal factors on root growth and the root-soil interface.
Dictatorship, Disorder and Decline in Myanmar Monique Skidmore 2008-12-01 Mass peaceful protests in Myanmar/Burma in 2007 drew the world's attention to the ongoing problems faced by this country and its oppressed people. In this publication, experts from around the world analyse the reasons for these recent political upheavals, explain how the country's economy, education and health sectors are in perceptible

decline, and identify the underlying authoritarian pressures that characterise Myanmar/Burma's military regime.

Informatics for Health: Connected Citizen-Led Wellness and Population Health R. Randell 2017-05-30
Over recent years there has been major investment in research infrastructure to harness the potential of routinely collected health data. In 2013, The Farr Institute for Health Informatics Research was established in the UK, undertaking health informatics research to enhance patient and public health by the analysis of data from multiple sources and unleashing the value of vast sources of clinical, biological, population and environmental data for public benefit. The Medical Informatics Europe (MIE) conference is already established as a key event in the calendar of the European Federation of Medical Informatics (EFMI); The Farr Institute has been establishing a conference series. For 2017, the decision was made to combine the power and established reputational excellence of EFMI with the emerging and innovative research of The Farr Institute community to create ‘Informatics for Health 2017’, a joint conference that creates a scientific forum allowing these two communities to share knowledge, insights and experience, advance cross-disciplinary thinking, and stimulate creativity. This book presents the 116 full papers presented at that conference, held in Manchester, UK in April 2017. The papers are grouped under five headings: connected and digital health; health data science; human, organisational, and social aspects; knowledge management; and quality, safety, and patient outcomes, and the book will be of interest to all those whose work involves the analysis and use of data to support more effective delivery of healthcare.

World Ocean Assessment World Ocean Assessment team 2017-04-30

Ferroelectrics Mickaël Lallart 2011-08-23 Ferroelectric materials have been and still are widely used in many applications, that have moved from sonar towards breakthrough technologies such as memories or optical devices. This book is a part of a four volume collection (covering material aspects, physical effects, characterization and modeling, and applications) and focuses on the application of ferroelectric devices to innovative systems. In particular, the use of these materials as varying capacitors, gyroscope,

acoustics sensors and actuators, microgenerators and memory devices will be exposed, providing an up-to-date review of recent scientific findings and recent advances in the field of ferroelectric devices.
Acute Heart Failure Alexandre Mebazaa 2009-12-24 For many years, there has been a great deal of work done on chronic congestive heart failure while acute heart failure has been considered a difficult to handle and hopeless syndrome. However, in recent years acute heart failure has become a growing area of study and this is the first book to cover extensively the diagnosis and management of this complex condition. The book reflects the considerable amounts of new data reported and many new concepts which have been proposed in the last 3-4 years looking at the epidemiology, diagnostic and treatment of acute heart failure.
Unstable Angina Walter Bleifeld 2012-12-06 A critical phase in coronary heart disease, unstable angina, is thoroughly discussed in contributions by well-known experts. Since myocardial infarction still belongs to the main causes of death, this topic is highly relevant for the present research and possible future treatment of coronary heart disease. The major recent advances made in the pathophysiology, diagnosis and therapy of unstable angina are reported in depth.
Carbon Dioxide Capture and Storage Intergovernmental Panel on Climate Change. Working Group III. 2005-12-19 IPCC Report on sources, capture, transport, and storage of CO2, for researchers, policy-makers and engineers.
Metagenomics: Methods and Protocols Wolfgang R. Streit 2018-12-14
Physiological Diversity John Spicer 2009-04-01 Ecologists have always believed, at least to a certain extent, that physiological mechanisms serve to underpin ecological patterns. However, their importance has traditionally been at best underestimated and at worst ignored, with physiological variation being dismissed as either an irrelevance or as random noise/error. Spicer and Gaston make a convincing argument that the precise physiology does matter! In contrast to previous works which have attempted to integrate ecology and physiology, Physiological Diversity adopts a completely different and more

controversial approach in tackling the physiology first before moving on to consider the implications for ecology. This is timely given the recent and considerable interest in the mechanisms underlying ecological patterns. Indeed, many of these mechanisms are physiological. This textbook provides a contemporary summary of physiological diversity as it occurs at different hierarchical levels (individual, population, species etc.), and the implications of such diversity for ecology and, by implication, evolution. It reviews what is known of physiological diversity and in doing so exposes the reader to all the key works in the field. It also portrays many of these studies in a completely new light, thereby serving as an agenda for, and impetus to, the future study of physiological variation. Physiological Diversity will be of relevance to senior undergraduates, postgraduates and professional researchers in the fields of ecology, ecological physiology, ecotoxicology, environmental biology and conservation. The book spans both terrestrial and marine systems.

Innovative Production Strategies for High-Quality, Traditional Pig Products Giovanna Martelli 2021-09-10 In a number of European countries (e.g., Spain, Italy, France, Portugal, Slovenia, Croatia, Poland), a portion of the pig sector is aimed at the production of traditional and certified products (e.g., PDO—Protected Designation of Origin, PGI—Protected Geographical Indication). Dry-cured ham is probably the most famous traditional pork product; however, typical pork products are produced in (and exported to) many countries worldwide. The meat used for producing these high-quality delicacies needs to be suitable for seasoning and dry-curing, and these characteristics are the result of complex interactions between the animal (breed, genotype, rearing condition, feeding regime, age and weight at slaughter, etc.) and the environment, without disregarding the importance of ethical attributes such as animal welfare and the environmental impact. This Special Issue focuses on all the innovative production strategies for pigs intended for high-quality, typical productions (in term of higher sustainability of the whole production chain, improvement of animal welfare, innovative feeding and farming techniques, reduction in environmental impact, improvement in meat and fat quality, etc.), with emphasis on PDOs,

PGIs, and other recognized production schemes, and it is aimed at providing new insights for a wide range of stakeholders from different countries.
Surface Tension in Microsystems Pierre Lambert 2013-08-31 This book describes how surface tension effects can be used by engineers to provide mechanical functions in miniaturized products (1 mm). Even if precursors of this field such as Jurin or Laplace already date back to the 18th century, describing surface tension effects from a mechanical perspective is very recent.brThe originality of this book is to consider the effects of capillary bridges on solids, including forces and torques exerted both statically and dynamically by the liquid along the 6 degrees-of-freedom.brIt provides a comprehensive approach to various applications, such as capillary adhesion (axial force), centering force in packaging and micro-assembly (lateral force) and recent developments such as a capillary motor (torque).
Intractable Seizures W. McIntyre Burnham 2002-04-30 About 20% of people with epilepsy have seizures which are resistant to anticonvulsant medications. These drug-resistant seizures are called `intractable', and the patients who have them - about 1 in 500 of the general population - present a major challenge to neurologists and epilepsy associations. The present volume describes the symptomatology of the major `intractable' syndromes, the most appropriate drugs for each, and the possibilities for surgical control. Research related to the causes and effects of unchecked seizures is presented, and new directions in prevention and therapy are discussed.
Differential Ion Mobility Spectrometry Alexandre A. Shvartsburg 2008-12-24 Over the last decade, scientific and engineering interests have been shifting from conventional ion mobility spectrometry (IMS) to field asymmetric waveform ion mobility spectrometry (FAIMS). Differential Ion Mobility Spectrometry: Nonlinear Ion Transport and Fundamentals of FAIMS explores this new analytical technology that separates and characterizes ions by the difference between their mobility in gases at high and low electric fields. It also covers the novel topics of higher-order differential IMS and IMS with alignment of dipole direction. The book relates the fundamentals of FAIMS and other nonlinear IMS methods to the

physics of gas-phase ion transport. It begins with the basics of ion diffusion and mobility in gases, covering the main attributes of conventional IMS that are relevant to all IMS approaches. Building on this foundation, the author reviews diverse high-field transport phenomena that underlie differential IMS. He discusses the conceptual implementation and first-principles optimization of FAIMS as a filtering technique, emphasizing the dependence of FAIMS performance metrics on instrumental parameters and properties of ion species. He also explores ion reactions in FAIMS caused by field heating and the effects of inhomogeneous electric field in curved FAIMS gaps. Written by an accomplished scientist in the field, this state-of-the-art book supplies the foundation to understand the new technology of nonlinear IMS methods.

Cooperative Information Agents III Matthias Klusch 2014-03-12 This book constitutes the refereed proceedings of the Third International Workshop on Cooperative Information Systems, CIA'99, held in Uppsala, Sweden in July/August 1999. The 16 revised full papers presented were carefully reviewed and selected from a total of 46 submissions. Also included are ten invited contributions by leading experts. The volume is divided in sections on information discovery and management on the Internet; information agents on the Internet-prototypes systems and applications; communication and collaboration, mobile information agents; rational information agents for electronic business; service mediation and negotiation; and adaptive personal assistance.

Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation Christopher B. Field 2012-05-28 This Intergovernmental Panel on Climate Change Special Report (IPCC-SREX) explores the challenge of understanding and managing the risks of climate extremes to advance climate change adaptation. Extreme weather and climate events, interacting with exposed and vulnerable human and natural systems, can lead to disasters. Changes in the frequency and severity of the physical events affect disaster risk, but so do the spatially diverse and temporally dynamic patterns of exposure and vulnerability. Some types of extreme weather and climate events have increased in frequency or

magnitude, but populations and assets at risk have also increased, with consequences for disaster risk. Opportunities for managing risks of weather- and climate-related disasters exist or can be developed at any scale, local to international. Prepared following strict IPCC procedures, SREX is an invaluable assessment for anyone interested in climate extremes, environmental disasters and adaptation to climate change, including policymakers, the private sector and academic researchers.

Studying Brain Activity in Sports Performance Stéphane Perrey 2021-03-30 The improvement of exercise performance in sports not only involves the enhancement of physical strength, but also includes the development of psychological and cognitive functions. There is an increasing body of evidence to show that physical exercise is a powerful way to improve a number of aspects of cognition and brain function at the systemic and behavioral levels. Yet, several questions remain: What type of exercise program is optimal for improving cognitive functions? What are the real effects of certain innovative exercise protocols on the relationship between behavior and the brain? To what extent do ergogenic aids boost cognitive function? How efficient are neuromodulation techniques in relation to behavioral performance? The answers to these questions likely require multidisciplinary insights not only from physiologists and sports scientists, but also from neuroscientists and psychologists. The manuscripts published (16 research papers and one perspective article from various academic fields) in this Special Issue Book “Exercise: A Gate That Primes the Brain to Perform” bring together current knowledge and novel directions in human exercise-cognition research dealing with performance. This book showcases the various relationships between cognitive function, brain activity, and behavioral performance with applications in sports and exercise science.

Looptail Bruce Tip 2014-04-03 Looptail is Bruce Poon Tip's extraordinary first-person account of his entrepreneurial instincts to start and develop G Adventures, the highly successful international travel adventure company - and along the way he reveals his unusual management secrets that not only keep his employees fully engaged and energized but also keep his customers extremely happy. His unique

appraoch has worked in marvellous ways. Poon Tip has created an entirely new and refreshing approach to management. For example, there is no CEO at G Adventures - instead, every employee is a CEO, empowered to make instantaneous decisions to help clients on the spot. But while there's no CEO, there is a company Mayor, who take the pulse of corporate morale. There's no HR department - but there is a Talent Agency and company Culture Club. It hasn't always been easy to try to balance his desire for a socially responsible company along with the desire to generate profits. But thanks to Poon Tip's vision, G Adventures has floruished and has done its best to maintain its looptail approach. In short, it's been an extraordinary ride, and in many ways G Adventures is at the vanguard of what modern-day companies are beginning to look like.

High Tide Jude Deveraux 2012-12-11 Fiona is the creator of fashion doll sensation Kimberley, and is quite satisfied with her career-focused life. Yet when her boss informs her that she must win over a new account by going camping with the creator of a hit children's TV show, she is extremely reluctant. Nevertheless, she goes to Florida to meet Roy and his Guide Ace Montgomery. When Roy is found dead with Fiona holding the bloody knife, she becomes the prime suspect - though she has no recollection of what happened. Things get worse when she learns that Roy, until now a stranger to her, left her all the proceeds from his new TV show, giving her a strong motive for murder. Suddenly, she and Ace find themselves on the run, and being condemned by the press for murder. They must prove their innocence by discovering the true motive and murderer of Roy. Fiona and Ace figure out they are linked through her father, and it is then that Fiona learns the secrets of her family's past, turning her world upside down.

Carbon Capture and Storage Mai Bui 2019-11-29 This book will provide the latest global perspective on the role and value of carbon capture and storage (CCS) in delivering temperature targets and reducing the impact of global warming. As well as providing a comprehensive, up-to-date overview of the major sources of carbon dioxide emission and negative emissions technologies, the book also discusses technical, economic and political issues associated with CCS along with strategies to enable

commercialisation.
Sustainable Ammonia Production Inamuddin 2020-01-09 This book presents sustainable synthetic pathways and modern applications of ammonia. It focuses on the production of ammonia using various catalytic systems and its use in fuel cells, membrane, agriculture, and renewable energy sectors. The book highlights the history, investigation, and development of sustainable pathways for ammonia production, current challenges, and state-of-the-art reviews. While discussing industrial applications, it fills the gap between laboratory research and viable applications in large-scale production.