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Elements of Power System Analysis

Wildlife in a Changing World

An Analysis of the 2008 IUCN Red List of Threatened Species

IUCN Wildlife in a Changing World presents an analysis of the 2008 IUCN Red List of Threatened Species. Beginning with an explanation of the IUCN Red List as a key conservation tool, it goes on to discuss the state of the world's species and provides the latest information on the patterns of species facing extinction in some of the most important ecosystems in the world, highlighting the

reasons behind their declining status. Areas of focus in the report include: freshwater biodiversity, the status of the world's marine species, species susceptibility to climate change impacts, the Mediterranean biodiversity hot spot, and broadening the coverage of biodiversity assessments.

Clinical Pharmacy and Therapeutics

A practical guide for the treatment of common diseases, this updated edition includes the very latest information. It covers the treatment of disease by drug therapy and uses case studies to illustrate the application of the principles discussed

Reading Achievement and Motivation in Boys and Girls

Field Studies and Methodological Approaches

Springer This volume links theoretical and instructional approaches on how reading is motivated and assessed, and examines the interrelationship between reading motivation and achievement among boys and girls in culturally and geographically different settings. Much of the research on children's reading has focused on cognitive processes; however, reading is an activity that also requires interest and motivation. These attitudes are generally defined as readers' affect toward reading and their consequence is that children with more positive attitudes are more motivated to read. Taking into account the variability that exists within the notion of gender and age, this volume aims to examine and scrutinize previous research on the topic, as well as test theories on how the different dimensions of reading motivation vary with gender, in relation to cultural issues, motivational constructs, such as engagement and classroom climate, the role of emotions, interests and attitudes towards reading, among others. The book will be of interest to researchers, educators, graduate students, and other professionals working in the area of literacy, reading motivation, reading achievement and gender differences.

Microsound

Mit Press A comprehensive presentation of the techniques and aesthetics of composition with sound particles.

Analytical Chemistry for Cultural Heritage

Springer The series Topics in Current Chemistry Collections presents critical reviews from the journal Topics in Current Chemistry organized in topical volumes. The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology, medicine and materials science. The goal of each thematic volume is to give the non-specialist reader, whether in academia or industry, a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience. Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole. The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed. The coverage is not intended to be an exhaustive summary of the field or include large quantities of data, but should rather be conceptual, concentrating on the methodological thinking that will allow the non-specialist reader to understand the information presented. Contributions also offer an outlook on potential future developments in the field.

Comparative and Evolutionary Genomics of Angiosperm Trees

Springer Marking the change in focus of tree genomics from single species to comparative approaches, this book covers biological, genomic, and evolutionary aspects of angiosperm trees that provide information and perspectives to support researchers broadening the focus of their research. The diversity of angiosperm trees in morphology, anatomy, physiology and biochemistry has been described and cataloged by various scientific disciplines, but the molecular, genetic, and evolutionary mechanisms underlying this diversity have only recently been explored. Excitingly, advances in genomic and sequencing technologies are ushering a new era of research broadly termed comparative genomics, which simultaneously exploits and describes the evolutionary origins and genetic regulation of traits of interest. Within tree genomics, this research is already underway, as the number of complete genome sequences available for angiosperm trees is increasing at an impressive pace and the number of species for which RNAseq data are available is rapidly expanding. Because they are extensively covered by other literature and are rapidly changing, technical and computational approaches—such as the latest sequencing technologies—are not a main focus of this book. Instead, this comprehensive volume provides a valuable, broader view of tree genomics whose relevance will outlive the particulars of current-day technical approaches. The first section of the book discusses background on the evolution and diversification of angiosperm trees, as

well as offers description of the salient features and diversity of the unique physiology and wood anatomy of angiosperm trees. The second section explores the two most advanced model angiosperm tree species (poplars and eucalypts) as well as species that are soon to emerge as new models. The third section describes the structural features and evolutionary histories of angiosperm tree genomes, followed by a fourth section focusing on the genomics of traits of biological, ecological, and economic interest. In summary, this book is a timely and well-referenced foundational resource for the forest tree community looking to embrace comparative approaches for the study of angiosperm trees.

Rhetoric and Religion in Ancient Greece and Rome

de Gruyter The chapters of this volume shed new light on the complicated relationship between religious discourse and rhetoric across several (con)texts from classical to late. Rhetoric is used to address the divine, to invoke the gods, to talk about the sacre

Power System Analysis: Operation And Control 3Rd Ed.

PHI Learning Pvt. Ltd. This comprehensive book is designed both for postgraduate students in power systems/energy systems engineering and a one-year course for senior undergraduate students of electrical engineering pursuing courses on power systems. The text gives a systematic exposition of topics such as modelling of power system components, load flow, automatic load frequency control, economic operation, voltage control and stability, study of faulted power systems, and optimal power flow. Besides giving a detailed discussion on the basic principles and practices, the text provides computer-based examples to illustrate the topics discussed. What makes the text unique is that it deals with the practice of computer for power system operation and control. This book also brings together the diverse aspects of power system operation and control and is a practical hands-on guide to theoretical developments and to the application of advanced methods in solving operational and control problems of electric power systems. The book should therefore be of immense benefit to the industry professionals and researchers as well.

Psychiatry of Pandemics

A Mental Health Response to Infection Outbreak

Springer This book focuses on how to formulate a mental health response with respect to the unique elements of pandemic outbreaks. Unlike other disaster psychiatry books that isolate aspects of an emergency, this book unifies the clinical aspects of disaster and psychosomatic psychiatry with infectious disease responses at the various levels, making it an excellent resource for tackling each stage of a crisis quickly and thoroughly. The book begins by contextualizing the issues with a historical and infectious disease overview of pandemics ranging from the Spanish flu of 1918, the HIV epidemic, Ebola, Zika, and many other outbreaks. The text acknowledges the new infectious disease challenges presented by climate changes and considers how to implement systems to prepare for these issues from an infection and social psyche perspective. The text then delves into the mental health aspects of these crises, including community and cultural responses, emotional epidemiology, and mental health concerns in the aftermath of a disaster. Finally, the text considers medical responses to situation-specific trauma, including quarantine and isolation-associated trauma, the mental health aspects of immunization and vaccination, survivor mental health, and support for healthcare personnel, thereby providing guidance for some of the most alarming trends facing the medical community. Written by experts in the field, *Psychiatry of Pandemics* is an excellent resource for infectious disease specialists, psychiatrists, psychologists, immunologists, hospitalists, public health officials, nurses, and medical professionals who may work patients in an infectious disease outbreak.

Reading Acquisition and Developmental Dyslexia

Psychology Press Most studies on reading have been conducted with English-speaking subjects. It is crucial to also examine studies conducted in different languages, in order to highlight which aspects of reading acquisition and dyslexia appear to be language-specific, and which are universal. *Reading Acquisition and Developmental Dyslexia* sheds new light on dyslexia and its relationship with reading acquisition, presenting two unique advancements in this area. Looking at studies conducted in different languages, the prerequisites of reading acquisition are examined, and the findings from studies of skilled adult readers are presented. The manifestations of developmental dyslexia and the main contemporary explanations for it are outlined, providing an in-depth, well researched discussion of the topic. The authors conclude by offering a new framework which could explain both reading acquisition and developmental dyslexia. A fascinating book offering a unique insight into the topic of dyslexia, it will be of great interest to students and lecturers in cognitive psychology, educational psychology, and psycholinguistics, as well as those with a more everyday involvement with the disorder such as speech and language therapists.

Reading Acquisition

Routledge Originally published in 1992. This book brings together the work of a number of distinguished international researchers engaged in basic research on beginning reading. Individual chapters address various processes and problems in learning to read - including how acquisition gets underway, the contribution of story listening experiences, what is involved in learning to read words, and how readers represent information about written words in memory. In addition, the chapter contributors consider how phonological, onset-rime, and syntactic awareness contribute to reading acquisition, how learning to spell is involved, how reading ability can be explained as a combination of decoding skill plus listening comprehension skill, and what causes reading difficulties and how to study these causes.

International Companion Encyclopedia of Children's Literature

Routledge Children's literature continues to be one of the most rapidly expanding and exciting of interdisciplinary academic studies, of interest to anyone concerned with literature, education, internationalism, childhood or culture in general. The second edition of Peter Hunt's bestselling International Companion Encyclopedia of Children's Literature offers comprehensive coverage of the subject across the world, with substantial, accessible, articles by specialists and world-ranking experts. Almost everything is here, from advanced theory to the latest practice - from bibliographical research to working with books and children with special needs. This edition has been expanded and includes over fifty new articles. All of the other articles have been updated, substantially revised or rewritten, or have revised bibliographies. New topics include Postcolonialism, Comparative Studies, Ancient Texts, Contemporary Children's Rhymes and Folklore, Contemporary Comics, War, Horror, Series Fiction, Film, Creative Writing, and 'Crossover' literature. The international section has been expanded to reflect world events, and now includes separate articles on countries such as the Baltic states, the Czech and Slovak Republics, Iran, Korea, Mexico and Central America, Slovenia, and Taiwan.

Drug Delivery

Springer Science & Business Media In the view of most experts pharmacology is on drugs, targets, and actions. In the context the drug as a rule is seen as an active pharmaceutical ingredient and not as a complex mixture of chemical entities of a well defined structure. Today, we are becoming more and more aware of the fact that delivery of the active compound to the target site is a key. The present volume gives a topical overview on various modern approaches to drug targeting covering today's options for specific carrier systems allowing successful drug treatment at various sites of the body difficult to address and allowing to increase the benefit-risk-ratio to the optimum possible.

The Biology of Chameleons

Univ of California Press They change color depending on their mood. They possess uniquely adapted hands and feet distinct from other tetrapods. They feature independently movable eyes. This comprehensive volume delves into these fascinating details and thorough research about one of the most charismatic families of reptiles—Chameleonidae. Written for professional herpetologists, scholars, researchers, and students, this book takes readers on a voyage across time to discover everything that is known about chameleon biology: anatomy, physiology, adaptations, ecology, behavior, biogeography, phylogeny, classification, and conservation. A description of the natural history of chameleons is given, along with the fossil record and typical characteristics of each genus. The state of chameleons in the modern world is also depicted, complete with new information on the most serious threats to these remarkable reptiles.

Engineering Geology and Geomorphology of Glaciated and Periglaciated Terrains

Engineering Group Working Party Report

Geological Society of London The Engineering Group of the Geological Society Working Party brought together experts in glacial and periglacial geomorphology, Quaternary history, engineering geology and geotechnical engineering to establish best practice when working in former glaciated and periglaciated environments. The Working Party addressed outdated terminology and reviewed the latest academic research to provide an up-to-date understanding of glaciated and periglaciated terrains. This transformative, state-of-the-art volume is the outcome of five years of deliberation and synthesis by the Working Party. This is an essential reference text for practitioners, students and academics working in these challenging ground conditions. The narrative style, and a comprehensive glossary and photo-catalogue of active and relict sediments, structures and landforms make this material relevant and accessible to a wide readership.

Nutritional Care of Preterm Infants

Scientific Basis and Practical Guidelines

Karger Medical and Scientific Publishers Improved conditions of care for premature infants have led to markedly increased survival rates over the last few decades, particularly in very low and extremely low birth weight infants. Nutritional measures play a central role in the long-term outcome, health and quality of life of these premature infants. In this publication, leading experts from all 5 continents present the most recent evidence and critical analyses of nutrient requirements and the practice of nutritional care (with the focus on very low birth weight infants) to provide guidance for clinical application. After the introductory chapters, covering nutritional needs and research evidence in a more general manner, topics such as amino acids and proteins, lipids, microminerals and vitamins, parenteral and enteral nutrition as well as approaches to various disease conditions are addressed. Due to its focus on critical appraisals and recommendations, this book is of interest not only for the researcher who wants to keep up to date, but also for the clinician faced with premature infants in his practice.

Renewable Energy Sources and Climate Change Mitigation

Special Report of the Intergovernmental Panel on Climate Change

Cambridge University Press This Intergovernmental Panel on Climate Change Special Report (IPCC-SRREN) assesses the potential role of renewable energy in the mitigation of climate change. It covers the six most important renewable energy sources - bioenergy, solar, geothermal, hydropower, ocean and wind energy - as well as their integration into present and future energy systems. It considers the environmental and social consequences associated with the deployment of these technologies, and presents strategies to overcome technical as well as non-technical obstacles to their application and diffusion. SRREN brings a broad spectrum of technology-specific experts together with scientists studying energy systems as a whole. Prepared following strict IPCC procedures, it presents an impartial assessment of the current state of knowledge: it is policy relevant but not policy prescriptive. SRREN is an invaluable assessment of the potential role of renewable energy for the mitigation of climate change for policymakers, the private sector, and academic researchers.

Policy Instruments for Environmental and Natural Resource Management

Routledge As Thomas Sterner points out, the economic 'toolkit' for dealing with environmental problems has become formidable. It includes taxes, charges, permits, deposit-refund systems, labeling, and other information disclosure mechanisms. Though not all these devices are widely used, empirical application has started within some sectors, and we are beginning to see the first systematic efforts at an advanced policy design that takes due account of market-based incentives. Sterner's book encourages more widespread

and careful use of economic policy instruments. Intended primarily for application in developing and transitional countries, the book compares the accumulated experiences of the use of economic policy instruments in the U.S. and Europe, as well as in select rich and poor countries in Asia, Africa, and Latin America. Ambitious in scope, the book discusses the design of instruments that can be employed in a wide range of contexts, including transportation, industrial pollution, water pricing, waste, fisheries, forests, and agriculture. Policy Instruments for Environmental and Natural Resource Management is deeply rooted in economics but also informed by perspectives drawn from political, legal, ecological, and psychological research. Sterner notes that, in addition to meeting requirements for efficiency, the selection and design of policy instruments must satisfy criteria involving equity and political acceptability. He is careful to distinguish between the well-designed plans of policymakers and the resulting behavior of society. A copublication of Resources for the Future, the World Bank, and the Swedish International Development Cooperation Agency (Sida).

The Jazz Republic

Music, Race, and American Culture in Weimar Germany

University of Michigan Press Reveals the wide-ranging influence of American jazz on German discussions of music, race, and culture in the early twentieth century

Equity and the Law of Trusts

The Medical Times and Gazette

Enzyme Assays

High-throughput Screening, Genetic Selection and Fingerprinting

John Wiley & Sons Edited by one of the leading experts in the field, this book fills the need for a book presenting the most important methods for high-throughput screenings and functional characterization of enzymes. It adopts an interdisciplinary approach, making it indispensable for all those involved in this expanding field, and reflects the major advances made over the past few years. For biochemists, analytical, organic and catalytic chemists, and biotechnologists.

The Clinical Utility of Compounded Bioidentical Hormone Therapy

A Review of Safety, Effectiveness, and Use

National Academies Press The U.S. Food and Drug Administration (FDA) has approved dozens of hormone therapy products for men and women, including estrogen, progesterone, testosterone, and related compounds. These products have been reviewed for safety and efficacy and are indicated for treatment of symptoms resulting from hormonal changes associated with menopause or other endocrine-based disorders. In recent decades, an increasing number of health care providers and patients have turned to custom-formulated, or compounded, drug preparations as an alternative to FDA-approved drug products for hormone-related health concerns. These compounded hormone preparations are often marketed as "bioidentical" or "natural" and are commonly referred to as compounded bioidentical hormone therapy (cBHT). In light of the fast-growing popularity of cBHT preparations, the clinical utility of these compounded preparations is a substantial public health concern for various stakeholders, including medical practitioners, patients, health advocacy organizations, and federal and state public health agencies. This report examines the clinical utility and uses of cBHT drug preparations and reviews the available evidence that would support marketing claims of the safety and effectiveness of cBHT preparations. It also assesses whether the available evidence suggests that these preparations have clinical utility and safety profiles warranting their clinical use and identifies patient populations that might benefit from cBHT preparations in

lieu of FDA-approved BHT.

The role of constituents in multiword expressions

An interdisciplinary, cross-lingual perspective

Language Science Press Multiword expressions (MWEs), such as noun compounds (e.g. nickname in English, and Ohrwurm in German), complex verbs (e.g. give up in English, and aufgeben in German) and idioms (e.g. break the ice in English, and das Eis brechen in German), may be interpreted literally but often undergo meaning shifts with respect to their constituents. Theoretical, psycholinguistic as well as computational linguistic research remain puzzled by when and how MWEs receive literal vs. meaning-shifted interpretations, what the contributions of the MWE constituents are to the degree of semantic transparency (i.e., meaning compositionality) of the MWE, and how literal vs. meaning-shifted MWEs are processed and computed. This edited volume presents an interdisciplinary selection of seven papers on recent findings across linguistic, psycholinguistic, corpus-based and computational research fields and perspectives, discussing the interaction of constituent properties and MWE meanings, and how MWE constituents contribute to the processing and representation of MWEs. The collection is based on a workshop at the 2017 annual conference of the German Linguistic Society (DGfS) that took place at Saarland University in Saarbrücken, Germany

The Learnability of Complex Constructions

A Cross-linguistic Perspective

Walter de Gruyter GmbH & Co KG How language users from different linguistic backgrounds cope with forms of complexity is still a territory with many unanswered questions. The current book is concerned with morphologically and syntactically complex items, that is, derivatives, inflected forms, compounds, phrases and forms related by agreement and examines how these constructions are acquired and learned in a great range of different languages, such as Turkish, Welsh, Basque and Catalan. Relying on a variety of methodologies targeting production or comprehension, among others, lexical decision and priming experiments, an EEG study, a corpus analysis and a reading test, the authors consider data from native speakers mastering one or more languages and second-language users. Overall, the volume reflects upon and contributes to our understanding of how the peculiarities of language and its

users affect the learnability of complex forms.

Bayesian Rationality

The Probabilistic Approach to Human Reasoning

Oxford University Press For almost 2,500 years, the Western concept of what is to be human has been dominated by the idea that the mind is the seat of reason - humans are, almost by definition, the rational animal. In this text a more radical suggestion for explaining these puzzling aspects of human reasoning is put forward.

Curriculum Models for the 21st Century

Using Learning Technologies in Higher Education

Springer Science & Business Media Changing student profiles and the increasing availability of mainstream and specialized learning technologies are stretching the traditional face-to-face models of teaching and learning in higher education. Institutions, too, are facing far-reaching systemic changes which are placing strains on existing resources and physical infrastructure and calling into question traditional ways of teaching through lectures and tutorials. And, with an ever-increasing scrutiny on teaching and teachers' accountability for positive educational outcomes, the call for closer attention to learning, teaching and, most especially, to the design and delivery of the curriculum is given increasing relevance and importance. Research provides strong evidence of the potential for technologies to facilitate not only cognition and learning but also to become integral components in the redesign of current curriculum models. Some Universities and individual academics have moved along this pathway, developing new and innovative curriculum, blending pedagogies and technologies to suit their circumstances. Yet, there are others, unsure of the possibilities, the opportunities and constraints in these changing times. Curriculum Models for the 21st Century gives insights into how teaching and learning can be done differently. The focus is on a whole of curriculum approach, looking at theoretical models and examples of practice which capitalize on the potential of technologies to deliver variations and alternatives to the more traditional lecture-based model of University teaching.

Who's Who in Plastics Polymers, First Edition

CRC Press This is the first edition of a unique new plastics industry resource: Who's Who in Plastics & Polymers. It is the only biographical directory of its kind and includes contact, affiliation and background information on more than 3300 individuals who are active leaders in this industry and related organizations. The biographical directory is in alphabetical order by individual name. After each individual name, current affiliation and contact information is provided. This includes job title, full name of affiliation (e.g., business, university, association, research institute), business address, and electronic contacts-telephone, fax, e-mail and Web site. Home addresses and contacts are also provided for most of the entries. In the biographical summary section for each individual, the following information is provided: date and place of birth, education and educational achievements, work experience including company or other organization names, positions held and time periods. Also included in this section are the number of patents awarded, articles, and book chapters authored, and conference sessions chaired. Other information includes titles of books edited or written by the individual, listing of conferences where the person had a leadership position, and listing of memberships and positions held in professional organizations. Finally, professional and civic awards are listed. Indexes provide listings of individuals by company or other organization name, and also by geographical location. Who's Who in Plastics & Polymers is now published in a limited edition of 1,000 copies. This edition will not be reprinted. To be sure of receiving your copy, please act now. Information on ordering follows sample pages on the reverse.

The Pangenome

Springer Nature This open access book offers the first comprehensive account of the pan-genome concept and its manifold implications. The realization that the genetic repertoire of a biological species always encompasses more than the genome of each individual is one of the earliest examples of big data in biology that opened biology to the unbounded. The study of genetic variation observed within a species challenges existing views and has profound consequences for our understanding of the fundamental mechanisms underpinning bacterial biology and evolution. The underlying rationale extends well beyond the initial prokaryotic focus to all kingdoms of life and evolves into similar concepts for metagenomes, phenomes and epigenomes. The books respective chapters address a range of topics, from the serendipitous emergence of the pan-genome concept and its impacts on the fields of microbiology, vaccinology and antimicrobial resistance, to the study of microbial communities, bioinformatic applications and mathematical models that tie in with complex systems and economic theory. Given its scope, the book will appeal to a broad readership interested in

population dynamics, evolutionary biology and genomics.

Masters Theses in the Pure and Applied Sciences Accepted by Colleges and Universities of the United States and Canada. Volume 24

*Springer Science & Business Media Masters Theses in the Pure and Applied Sciences was first conceived, published, and disseminated by the Center for Information and Numerical Data Analysis and Synthesis (CINDAS) * at Purdue University in 1957, starting its coverage of theses with the academic year 1955. Beginning with Volume 13, the printing and dissemination phases of the activity were transferred to University Microfilms/Xerox of Ann Arbor, Michigan, with the thought that such an arrangement would be more beneficial to the academic and general scientific and technical community. After five years of this joint undertaking we had concluded that it was in the interest of all concerned if the printing and distribution of the volume were handled by an international publishing house to assure improved service and broader dissemination. Hence, starting with Volume 18, Masters Theses in the Pure and Applied Sciences has been disseminated on a worldwide basis by Plenum Publishing Corporation of New York, and in the same year the coverage was broadened to include Canadian universities. All back issues can also be ordered from Plenum. We have reported in Volume 24 (thesis year 1979) a total of 10,033 theses titles from 26 Canadian and 215 United States universities. We are sure that this broader base for theses titles reported will greatly enhance the value of this important annual reference work. While Volume 24 reports these submitted in 1979, on occasion, certain universities do report theses submitted in previous years but not reported at the time.*

Crime, Violence, and the Crisis in Guatemala

A Case Study in the Erosion of the State

Strategic Studies Institute Guatemala is currently experiencing a full-blown crisis of the democratic state. An unholy trinity of criminal elements: international drug traffickers, domestically based organized crime syndicates, and youth gangs, is effectively waging a form of irregular warfare against government institutions, with devastating consequences. The police, the judiciary, and entire local and departmental governments are rife with criminal infiltrators; murder statistics have surpassed civil-war levels in recent years; criminal operatives brazenly assassinate government officials and troublesome members of the political class; and broad swaths of territory are now effectively under the control of criminal groups. Guatemala's weak institutions have been unable to contain this violence, leading to growing civic disillusion and causing a marked erosion in the authority and legitimacy of the government.--

Handbook of Marine Fisheries Conservation and Management

Oxford University Press This handbook is the most comprehensive and interdisciplinary work on marine conservation and fisheries management ever compiled. It is the first to bridge fisheries and marine conservation issues. Its innovative ideas, detailed case studies, and governance framework provide a global special perspective over time and treat problems in the high seas, community fisheries, industrial fishing, and the many interactions between use and non-use of the oceans. Its policy tools and ideas for overcoming the perennial problems of over fishing, habitat and biodiversity loss address the facts that many marine ecosystems are in decline and plagued by overexploitation due to unsustainable fishing practices. An outstanding feature of the book is the detailed case-studies on conservation practice and fisheries management from around the world. These case studies are combined with 'foundation' chapters that provide an overview of the state of the marine world and innovative and far reaching perspectives about how we can move forward to face present and future challenges. The contributors include the world's leading fisheries scientists, economists, and managers. Ecosystem and incentive-based approaches are described and complemented by tools for cooperative, participatory solutions. Unique themes treated: fisher behavior and incentives for management beyond rights-based approaches; a synthesis of proposed 'solutions'; a framework for understanding and overcoming the critical determinants of the decline in fisheries, degradation of marine ecosystems, and poor socio-economic performance of many fishing communities; models for innovative policy instruments; a plan of action and adoption pathways to promote sustainable fishing practices globally. Collectively, the handbook's

many valuable contributions offer a way forward to both understanding and resolving the multifaceted problems facing the world's oceans.

Global Carbon Footprints

Methods and Import/Export Corrected Results from the Nordic Countries in Global Carbon Footprint Studies

Nordic Council of Ministers There is increasing public, media and policy interest in the concepts of carbon footprints and the emissions associated with international trade. Many wonder if our growing consumption of imported products offsets our gains in climate policy. A variety of publications suggest that emission reductions in rich countries are offset by increased imports; i.e. our national carbon footprint is growing while our territorial emissions are getting smaller. Some refute this claim stating that the methods and data are unreliable, while others acknowledge the issue but argue it is not important for climate policy. This report aims to dispel some myths about carbon footprints and trade-adjusted emission inventories. A review of studies finds large variations between studies of the Nordic countries, but closer inspection shows that many of the variations are due to inconsistent definitions and non-comparable methods. Calculations using a consistent global model provide updated estimates for the Nordic countries in 1997, 2001, and 2004. A general observation for the Nordic countries is that the overall carbon footprint is larger than territorial based emissions, and that the difference is increasing. Further we also observe an increase in the total carbon footprint from 2001 to 2004. This stresses the need for policy makers to track the cause-effect chains between consumption and production to understand and mitigate potential carbon leakage. The study was carried out by researchers from CICERO and MiSA and was financed by the Nordic Council of Ministers.

The Pacific Arctic Region

Ecosystem Status and Trends in a Rapidly Changing Environment

Springer The Pacific Arctic region is experiencing rapid sea ice retreat, seawater warming, ocean acidification and biological response. Physical and biogeochemical modeling indicates the potential for step-function changes to the overall marine ecosystem. This synthesis book was coordinated within the Pacific Arctic Group, a network of international partners working in the Pacific Arctic. Chapter topics range from atmospheric and physical sciences to chemical processing and biological response to changing environmental conditions. Physical and biogeochemical modeling results highlight the need for data collection and interdisciplinary modeling activities to track and forecast the changing ecosystem of the Pacific Arctic with climate change.

The Ecology of Seashores

CRC Press The Ecology of Seashores explores the complex shore environment. It covers the ways in which representative species have adapted to life in a constantly changing environment in terms of their interactions, the control of community structure, and how energy and materials are cycled in different ecosystems. Written by an eminent marine biologist,

Trends

Highlights

Blaming Europe?

Responsibility Without Accountability in the European Union

Oxford University Press Examines how citizens attribute responsibility in the European Union, exploring how citizens assign blame to the EU, how politicians and the media attempt to shift blame, and how it matters for electoral democracy as voters are unable to hold their EU representatives to account.

Emmy Noether 1882–1935

Springer Science & Business Media N 1964 at the World's Fair in New York I City one room was dedicated solely to mathematics. The display included a very attractive and informative mural, about 13 feet long, sponsored by one of the largest computer manufacturing companies and presenting a brief survey of the history of mathematics. Entitled, "Men of Modern Mathematics," it gives an outline of the development of that science from approximately 1000 B. C. to the year of the exhibition. The first centuries of this time span are illustrated by pictures from the history of art and, in particular, architecture; the period since 1500 is illuminated by portraits of mathematicians, including brief descriptions of their lives and professional achievements. Close to eighty portraits are crowded into a space of about fourteen square feet; among them, only one is of a woman. Her face-mature, intelligent, neither pretty nor handsome-may suggest her love of science-1 Emmy Noetherence and creative gift, but certainly reveals a likeable personality and a genuine kindness of heart. It is the portrait of Emmy Noether (1882 - 1935), surrounded by the likenesses of such famous men as Joseph Liouville (1809-1882), Georg Cantor (1845-1918), and David Hilbert (1862 -1943). It is accompanied by the following text: Emmy Noether, daughter of the mathematician Max, was often called "Der Noether," as if she were a man.

River Algae

Springer The content is focused on benthic communities showing how they play an important role in the river ecosystems. Provides also information on taxonomy of river-inhabiting algal groups, including phylogeny, distribution, collection, preservation and description of the most representative genera of algae in river benthic algal communities. The book also approaches the ecology of river algae not to mention the ecological factors influencing abundance, distribution and diversity of river benthic algal communities

and their use as bio-indicators, providing an up-to-date information on taxonomy, ecology, methodology and uses, and a great source of research to everyone interested in freshwater algae, limnology, water quality assessment and biodiversity in river ecosystems.