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Human-Insect Interactions Sergej Govoruško 2021-03-31 This book presents a 360-degree picture of the world of insects and explores how their existence affects our lives: the "good, bad, and ugly" aspects of their interactions with humankind. It provides a lucid introductory text for beginning undergraduate students in the life sciences, particularly those pursuing beginner courses in entomology, agriculture, and botany.

Land Magnetic Observations Carnegie Institution of Washington. Department of Terrestrial Magnetism 1915

Goods and Services of Marine Bivalves Aad C. Smaal 2018-11-26 The aim of this open access book is to review and analyse the goods and services of bivalve shellfish. How they are defined, what determines the ecological functions that are the basis for the goods and services, what controversies in the use of goods and services exist, and what is needed for sustainable exploitation of bivalves from the perspective of the various stakeholders. The book is focused on the goods and services, and not on impacts of shellfish aquaculture on the benthic environment, or on threats like biotoxins; neither is it a shellfish culture handbook although it can be used in evaluating shellfish culture. The reviews and analysis are based on case studies that exemplify the concept, and show the strengths and weaknesses of the current applications. The multi-authored reviews cover ecological, economic

and social aspects of bivalve goods and services. The book provides new insights for scientists, students, shellfish producers, policy advisors, nature conservationists and decision makers. This book is open access under the CC BY license.

Introduction to Sociology 2e Heather Griffiths 2017-12-31 Introduction to Sociology 2e adheres to the scope and sequence of a typical, one-semester introductory sociology course. It offers comprehensive coverage of core concepts, foundational scholars, and emerging theories, which are supported by a wealth of engaging learning materials. The textbook presents detailed section reviews with rich questions, discussions that help students apply their knowledge, and features that draw learners into the discipline in meaningful ways. The second edition retains the book's conceptual organization, aligning to most courses, and has been significantly updated to reflect the latest research and provide examples most relevant to today's students. In order to help instructors transition to the revised version, the 2e changes are described within the preface. The images in this textbook are grayscale. Authors include: Heather Griffiths, Nathan Keirns, Eric Strayer, Susan Cody-Rydzewski, Gail Scaramuzzo, Tommy Sadler, Sally Vyain, Jeff Bry, Faye Jones

Oceanographic and Marine Cross-Domain Data Management for Sustainable Development Diviacco, Paolo 2016-09-23 As human activity makes a greater impact on the environment,

sustainability becomes an increasingly imperative goal. With the assistance of current technological innovations, environmental systems can be better preserved. Oceanographic and Marine Cross-Domain Data Management for Sustainable Development is a pivotal resource for the latest research on the collection of environmental data for sustainability initiatives and the associated challenges with this data acquisition. Highlighting various technological, scientific, semantic, and semiotic perspectives, this book is ideally designed for researchers, technology developers, practitioners, students, and professionals in the field of environmental science and technology. *The United Nations World Water Development Report* UNESCO World Water Assessment Programme 2021-03-22 Water is a finite and non-substitutable resource. As the foundation of life, societies and economies, it carries multiple values and benefits. But unlike most other natural resources, it has proven extremely difficult to determine its true 'value'. The 2021 edition of the United Nations World Water Development Report, titled "Valuing Water" assesses the current status of and challenges to the valuation of water across different sectors and perspectives and identifies ways in which valuation can be promoted as a tool to help improve its management and achieve global sustainable development.

The GEO Handbook on Biodiversity Observation Networks Michele Walters 2016-11-21 Biodiversity observation systems are almost everywhere inadequate to meet local, national and international (treaty) obligations. As a result of alarmingly rapid declines in biodiversity in the modern era, there is a strong, worldwide desire to upgrade our monitoring systems, but little clarity on what is actually needed and how it can be assembled from the elements which are already present. This book intends to provide practical guidance to broadly-defined biodiversity observation networks at all scales, but predominantly the national scale and higher. This is a

practical how-to book with substantial policy relevance. It will mostly be used by technical specialists with a responsibility for biodiversity monitoring to establish and refine their systems. It is written at a technical level, but one that is not discipline-bound: it should be intelligible to anyone in the broad field with a tertiary education.

Biodiversity and Human Health Francesca Grifo 1997-02 Biodiversity and Human Health brings together leading thinkers on the global environment and biomedicine to explore the human health consequences of the loss of biological diversity.

Community Operational Research Gerald Midgley 2012-12-06 "This is the book I have been waiting for. Community Operational Research has shown that analysis can be used not only for, but also with, community groups, helping them to gain more control of their situations. What Midgley and Ochoa-Arias' volume does is provide not only rich examples of grass-roots practice, but also thought-provoking theoretical explorations. The editors have a point of view, but they allow space for debate with those who interpret Community OR differently." Jonathan Rosenhead (Emeritus Professor of Operational Research, London School of Economics and Political Science; Ex-President of the ORS)

Multivariate Analysis of Ecological Data with ade4 Jean Thioulouse 2019-12-10 This book introduces the ade4 package for R which provides multivariate methods for the analysis of ecological data. It is implemented around the mathematical concept of the duality diagram, and provides a unified framework for multivariate analysis. The authors offer a detailed presentation of the theoretical framework of the duality diagram and also of its application to real-world ecological problems. These two goals may seem contradictory, as they concern two separate groups of scientists, namely statisticians and ecologists. However, statistical ecology has become a scientific discipline of its own, and the good use of multivariate

data analysis methods by ecologists implies a fair knowledge of the mathematical properties of these methods. The organization of the book is based on ecological questions, but these questions correspond to particular classes of data analysis methods. The first chapters present both usual and multiway data analysis methods. Further chapters are dedicated for example to the analysis of spatial data, of phylogenetic structures, and of biodiversity patterns. One chapter deals with multivariate data analysis graphs. In each chapter, the basic mathematical definitions of the methods and the outputs of the R functions available in *ade4* are detailed in two different boxes. The text of the book itself can be read independently from these boxes. Thus the book offers the opportunity to find information about the ecological situation from which a question raises alongside the mathematical properties of methods that can be applied to answer this question, as well as the details of software outputs. Each example and all the graphs in this book come with executable R code.

A Shorter History of Science William Cecil Dampier Dampier 1959

Water, megacities and global change

ARCEAU Ile-de-France 2019-04-30

Freshwater Animal Diversity

Assessment E.V. Balian 2008-02-22

This book offers a comprehensive study of species- and genus-level diversity and chorology of the global freshwater fauna to date. It gives a state of the art assessment of the diversity and distribution of Metazoa in the continental waters of the world.

Research Integration Using Dialogue

Methods David McDonald 2009-08-01

Research on real-world problems--like restoration of wetlands, the needs of the elderly, effective disaster response and the future of the airline industry--requires expert knowledge from a range of disciplines, as well as from stakeholders affected by the problem and those in a position to do something about it. This book charts new territory in taking a systematic approach to research integration

using dialogue methods to bring together multiple perspectives. It links specific dialogue methods to particular research integration tasks. Fourteen dialogue methods for research integration are classified into two groups: 1. Dialogue methods for understanding a problem broadly: integrating judgements 2. Dialogue methods for understanding particular aspects of a problem: integrating visions, world views, interests and values. The methods are illustrated by case studies from four research areas: the environment, public health, security and technological innovation.

Rethinking Environmentalism

Sharachchandra Lele 2019-03-29 A

multidisciplinary examination of alternative framings of environmental problems, with using examples from forest, water, energy, and urban sectors. Does being an environmentalist mean caring about wild nature? Or is environmentalism synonymous with concern for future human well-being, or about a fair apportionment of access to the earth's resources and a fair sharing of pollution burdens? Environmental problems are undoubtedly one of the most salient public issues of our time, yet environmental scholarship and action is marked by a fragmentation of ideas and approaches because of the multiple ways in which these environmental problems are "framed." Diverse framings prioritize different values and explain problems in various ways, thereby suggesting different solutions. Are more inclusive framings possible? Will this enable more socially relevant, impactful research and more concerted action and practice? This book takes a multidisciplinary look at these questions using examples from forest, water, energy, and urban sectors. It explores how different forms of environmentalism are shaped by different normative and theoretical positions, and attempts to bridge these divides. Individual perspectives are complemented by comprehensive syntheses of the differing framings in each sector. By self-reflectively exploring how researchers study and mobilize

evidence about environmental problems, the book opens up the possibility of alternative framings to advance collaborative and integrated understanding of environmental problems and sustainability challenges.

Carbon Allotropes: Metal-Complex Chemistry, Properties and Applications

Boris Ildusovich Kharisov 2019-01-02 This book provides a detailed description of metal-complex functionalized carbon allotrope forms, including classic (such as graphite), rare (such as M- or T-carbon), and nanoforms (such as carbon nanotubes, nanodiamonds, etc.). Filling a void in the nanotechnology literature, the book presents chapters generalizing the synthesis, structure, properties, and applications of all known carbon allotropes. Metal-complex composites of carbons are described, along with several examples of their preparation and characterization, soluble metal-complex carbon composites, cost-benefit data, metal complexes as precursors of carbon allotropes, and applications. A lab manual on the synthesis and characterization of carbon allotropes and their metal-complex composites is included. Provides a complete description of all carbon allotropes, both classic and rare, as well as carbon nanostructures and their metal-complex composites; Contains a laboratory manual of experiments on the synthesis and characterization of metal-complex carbon composites; Discusses applications in diverse fields, such as catalysis on supporting materials, water treatment, sensors, drug delivery, and devices.

New Directions in Science and Environmental Communication: Understanding the Role of Online Video-Sharing and Online Video-Sharing Platforms for Science and Research Communication

Joachim Allgaier 2022-02-11
Biodiversity Offsets OECD. 2017-01-31
Foreword Acknowledgements Acronyms and abbreviations Executive summary Chapter 1. Biodiversity offsets: Overview and insights for good practice Part I. Key design and

implementation issues Chapter 2. No net loss, the mitigation hierarchy and the economics of biodiversity offsets Chapter 3. Institutional frameworks for biodiversity offsets Chapter 4. Design and implementation features of biodiversity offset programmes Part II. Case studies Chapter 5. Compensatory mitigation and wetland banking in the United States Chapter 6. German Impact Mitigation Regulation in Hessen Chapter 7. Mexican Environmental Compensation Scheme for Land-Use Change in Forested Areas Annex II.A1. Summary of offset features in Germany, Mexico and the United States
Handbook of Chemical and Biological Plant Analytical Methods, 3 Volume Set Shilin Chen 2014-07-15 Plants and plant-derived compounds and drugs are becoming more and more popular with increasing numbers of scientists researching plant analysis. The quality control of herbal drugs is also becoming essential to avoid severe health problems, and in the future many more new drugs will be developed from plant sources. This three-volume Handbook, featuring 47 detailed review articles, is unique as it deals with chemical and biological methodologies for plant analysis. It presents the most important and most accurate methods which are available for plant analysis. This comprehensive work is divided into six sections as follows: Sample preparation and identification - discussing plant selection and collection, followed by extraction and sample preparation methodologies. Extraction and sample preparation methodologies Instrumentation for chemical analysis - several instrumentations for chemical plant analysis are presented with an emphasis on hyphenated techniques, e.g. the coupling between HPLC and mass spectrometry, and HPLC with NMR. Strategies for selective classes of compounds - coverage of the most interesting classes of compounds such as polysaccharides, saponins, cardiotonic glycosides, alkaloids, terpenoids, lipids, volatile compounds and polyphenols (flavonoids, xanthenes, coumarins, naphthoquinones,

anthraquinones, proanthocyanidins, etc.). Biological Analysis - includes phenotyping, DNA barcoding techniques, transcriptome analysis, microarray, metabolomics and proteomics. Drugs from Plants - covers the screening of plant extracts and strategies for the quick discovery of novel bioactive natural products. Safety assessment of herbal drugs is highly dependent on outstanding chromatographic and spectroscopic methods which are also featured here. This Handbook introduces to scientists involved in plant studies the current knowledge of methodologies in various fields of chemically- and biochemically-related topics in plant research. The content from this Handbook will publish online within the Encyclopedia of Analytical Chemistry via Wiley Online Library:

ahref="http://www.wileyonlinelibrary.com/ref/eac" http://www.wileyonlinelibrary.com/ref/eac/a Benefit from the introductory offer, valid until 30 November 2014! Introductory price: £425.00 / \$695.00 / €550.00 List price thereafter: £495.00 / \$795.00 / €640.00

Introducing Metamorphism Ian Sanders 2018-10-01 Metamorphic rocks are one of the three main types of rock. Originally comprising either igneous or sedimentary rocks, metamorphic rocks are the products of change by heat and pressure, often at great depths in the earth's crust, into a completely new form. One of the classic examples of the result of a metamorphic process is the transformation of sedimentary mudstone into slate. *Introducing Metamorphism* provides a succinct introduction to metamorphism. Ian Sanders explains how and why rocks change during metamorphic processes. He discusses the role of water in metamorphism and describes the different types of metamorphic processes including contact, shock and high pressure metamorphism and metamorphism in an orogenic belt. Copiously illustrated and written for those who wish to gain a clear understanding of metamorphic processes, *Introducing Metamorphism* is designed to make the processes that led to the formation of these

rocks intelligible to its readers. Technical terms are kept to a minimum and are explained in a glossary.

The Mediterranean Russell King 2014-02-25 This book addresses contemporary geographical issues in the Mediterranean Basin from a perspective that recognizes the physical characteristics and cultural interactions which link the different Mediterranean states as a recognisable geographic entity. Sixteen chapters each deal with a major geographical issue currently facing the Mediterranean, each providing an invaluable summary of the extensive but widely dispersed literature relating to Mediterranean issues. Particular emphasis is placed on the interaction between society and environment in terms of environmental management, differential regional development and its associated political, demographic, cultural and economic tensions.

Transdisciplinary Higher Education Paul Gibbs 2017-05-23 This book is not just about thinking or acting in transdisciplinary ways, but about being transdisciplinary. To achieve this requires a deconstruction of our current way of acting within the definition of being that others impose upon us. Transdisciplinarity is a phenomenological perspective of reality and its manifestation in the world in which we exist. The volume develops a widely based transdisciplinary understanding of the issues faced by higher education institutions and those who work within and with these institutions to educate professionals. It incorporates international contributions from organisational theory, anthropologists, historians, psychologists, social sciences, philosophers and practitioners to create a volume that makes an important and distinct contribution to the literature on higher education and professional practice. "Transdisciplinarity provides one of our greatest challenges in higher education, both to the way it is organized and to the nature of the curriculum. This book is an important contribution to the debate about its

implications." "Higher education is being challenged by the nature of knowledge and how it is organized—the world is transdisciplinary but our institutions are constrained by the disciplines. This book contributes to the important debates about the challenges transdisciplinarity provides to our institutions."

Professor David Boud Emeritus
Professor, Faculty of Arts and Social Sciences, University of Technology, Sydney

Implementing Ecological Integrity

Philippe Crabbé 2000-06-30 The concept of ecological integrity is used in environmental policy but is usually left undefined. The definition proposed by the Integrity Group is quite demanding: it tends to focus on a nature that has been impacted by human activity as little as possible, viz., located in remote areas, emphasising and protecting its self organising capacities for life as a product of the natural history of ecosystems. The demand is for an ethical reverence for life in all its manifestations. In its study of ecological integrity the book's strength is its true multidisciplinary, strongly grounded in ecology, thermodynamics, ethics and complex systems approach. It covers a broad international terrain, it documents geographically wide ranging case studies. It is thus applied in character and does not remain at the purely conceptual level.

Introducing Palaeontology Patrick Wyse Jackson 2019-11-01 Life on Earth can be traced back over three billion years into the past. Many examples of the Earth's former inhabitants are to be found in rocks, preserved as beautiful and fascinating fossils. The earliest life forms were bacteria and algae; these produced the oxygen that enabled more complex life forms to develop. About 600 million years ago multi-cellular organisms appeared on Earth, some of which could protect themselves with hard parts such as shells. Many of these life forms were readily fossilized and are used to subdivide geological time. Numerous species have evolved and most are now extinct. Lineages can be traced and

extinctions explained as a consequence of terrestrial and extra-terrestrial events. Now in a revised, updated and expanded Second Edition *Introducing Palaeontology* will continue to provide readers with a concise and accessible introduction to the science of palaeontology.

Allegories of the Anthropocene

Elizabeth M. DeLoughrey 2019-05-24 In *Allegories of the Anthropocene*

Elizabeth M. DeLoughrey traces how indigenous and postcolonial peoples in the Caribbean and Pacific Islands grapple with the enormity of colonialism and anthropogenic climate change through art, poetry, and literature. In these works, authors and artists use allegory as a means to understand the multiscale complexities of the Anthropocene and to critique the violence of capitalism, militarism, and the postcolonial state. DeLoughrey examines the work of a wide range of artists and writers—including poets Kamau Brathwaite and Kathy Jetñil-Kijiner, Dominican installation artist Tony Capellán, and authors Keri Hulme and Erna Brodber—whose work addresses Caribbean plantations, irradiated Pacific atolls, global flows of waste, and allegorical representations of the ocean and the island. In examining how island writers and artists address the experience of finding themselves at the forefront of the existential threat posed by climate change, DeLoughrey demonstrates how the Anthropocene and empire are mutually constitutive and establishes the vital importance of allegorical art and literature in understanding our global environmental crisis.

Lola Greeno Julie Gough 2014 This *Living Treasures* monograph, *Lola Greeno: Cultural Jewels* is a collection of personal stories recording a remarkable life, career and practice of one of Australia's most respected shell necklace artists, Lola Greeno. These unique stories, told by Lola in her own special way, document her journey as an Indigenous Tasmanian woman and artist.

Why We Disagree about Climate Change
Mike Hulme 2009-04-30 Climate change

is not 'a problem' waiting for 'a solution'. It is an environmental, cultural and political phenomenon which is re-shaping the way we think about ourselves, our societies and humanity's place on Earth. Drawing upon twenty-five years of professional work as an international climate change scientist and public commentator, Mike Hulme provides a unique insider's account of the emergence of this phenomenon and the diverse ways in which it is understood. He uses different standpoints from science, economics, faith, psychology, communication, sociology, politics and development to explain why we disagree about climate change. In this way he shows that climate change, far from being simply an 'issue' or a 'threat', can act as a catalyst to revise our perception of our place in the world. Why We Disagree About Climate Change is an important contribution to the ongoing debate over climate change and its likely impact on our lives.

The Forests of the Congo Basin Carlos de Wasseige 2012 The 2010 State of the Forest report (SOF) benefited from financial support from the European Union, the United States, Germany, France and UNESCO. It represents the collaborative effort of over 100 individuals from a diversity of institutions and the forestry administrations of the Central African countries. The SOF process began with the selection and definition of indicators relevant to monitoring the state of forests in Central Africa. The indicators are structured around three thematic areas: (i) forest cover; (ii) management of production forests; and (iii) conservation and biodiversity. They are presented in a hierarchical structure at the regional, national and management unit (i.e. logging concessions and protected areas) levels. The indicators were vetted by a representative panel of stakeholders of forest management in Central Africa. The indicators are used to guide an annual data collection process carried out between April and August by national groups of four to ten individuals working within the forestry

administrations. The data reported on in the 2010 SOF were primarily collected in 2009 and 2010. Results were validated in national workshops attended by government officials as well as representatives of environmental NGOs, the private sector and development projects. The data provided an important basis for the authors of the 11 chapters of the 2010 SOF, which were under the coordination of a scientific committee of international renown. A final workshop was held 29-30 March, 2011 in Douala to review a draft report. Following amendments based on comments from a wide audience of experts the final layout was completed.

Ecological Informatics Friedrich Recknagel 2013-06-29 Ecological Informatics is defined as the design and application of computational techniques for ecological analysis, synthesis, forecasting and management. The book provides an introduction to the scope, concepts and techniques of this newly emerging discipline. It illustrates numerous applications of Ecological Informatics for stream systems, river systems, freshwater lakes and marine systems as well as image recognition at micro and macro scale. Case studies focus on applications of artificial neural networks, genetic algorithms, fuzzy logic and adaptive agents to current ecological management issues such as toxic algal blooms, eutrophication, habitat degradation, conservation of biodiversity and sustainable fishery.

Introduction to Statistical Time Series Wayne A. Fuller 1995-12-29 The subject of time series is of considerable interest, especially among researchers in econometrics, engineering, and the natural sciences. As part of the prestigious Wiley Series in Probability and Statistics, this book provides a lucid introduction to the field and, in this new Second Edition, covers the important advances of recent years, including nonstationary models, nonlinear estimation, multivariate models, state space representations, and empirical model identification.

New sections have also been added on the World decomposition, partial autocorrelation, long memory processes, and the Kalman filter. Major topics include: * Moving average and autoregressive processes * Introduction to Fourier analysis * Spectral theory and filtering * Large sample theory * Estimation of the mean and autocorrelations * Estimation of the spectrum * Parameter estimation * Regression, trend, and seasonality * Unit root and explosive time series To accommodate a wide variety of readers, review material, especially on elementary results in Fourier analysis, large sample statistics, and difference equations, has been included.

Cut Reality Zack Hacker 2019-04-16 When death washes ashore on reality TV, who's to blame? "When I heard the premise of *Cut Reality*, I almost died...and I wouldn't lie about that." - Jonny Fairplay, *Survivor* NSFW Join Jason Debord as he seeks clarity following the death of a reality TV co-star and ends up uncovering criminal conspiracy. When Jason returned home from competing on *Beached* he'd lost weight, couldn't sleep, and felt more alone than ever. But, he expected those changes. Jason had no way to predict that one of his fellow competitors would fling himself from a cliff. Unless he didn't. Jason can't believe it, but the network broadcasts the alleged suicide to the world, so he pushes forward in his own amateur investigation. Met with resistance from the cast and crew, he persists only through the support of his developing romance with Blake, a psychologist who observes alarming similarities between her patient and her partner. Events in *Cut Reality* have a variety of interpretations. While under the watchful eye of the public, Jason has to decide: is what he uncovers too coincidental to be true, or so hard to accept because it's his new reality. Buy Zack Hacker's anticipated debut novel to find out what Jason discovers... What critics are saying: "On the surface, *Cut Reality* is a murder mystery; but actually it is much more...Highly

recommended for those who like their intrigue steeped in philosophical insights and dilemmas." - Midwest Book Review "[Zack Hacker] makes poignant critiques though subtle plot developments, holding back from judging society at large, but willing to poke holes in some of our accepted values...From the first tension-filled scene...*Cut Reality* will keep readers guessing, but also leave them with plenty to think about." - SPR "The perfect genre book at the perfect time." - San Francisco Book Review "*Cut Reality* is the type of thoughtful, provocative work that you don't see much of in the reality TV fanbase anymore. I had a lot of fun reading it." - Mario Lanza, author of *When It Was Worth Playing For*, *The Funny 115*, and host of *Survivor* Historians "★★★★ I have always loved books that can surprise me - this book did that and more." - Readers' Favorite Reviews

The Museum Building of Trinity College Dublin Christine Casey 2019-06-30 This volume addresses the most influential Victorian building in the city of Dublin and explores the new standard which it set in the use of Irish decorative stone, the employment of native craftsmen and the unprecedented eclecticism of its design. The geology, quarrying, building, carving and architectural design which created this spectacular structure are explored in a series of papers by established scholars and experts in the field. The book is richly illustrated in full colour to capture the sumptuous polychromy of the building and the profuse detail of its carved ornament.

The Science of Citizen Science Katrin Vohland 2021 This open access book discusses how the involvement of citizens into scientific endeavors is expected to contribute to solve the big challenges of our time, such as climate change and the loss of biodiversity, growing inequalities within and between societies, and the sustainability turn. The field of citizen science has been growing in recent decades. Many different stakeholders from scientists to citizens and from policy makers to environmental organisations have been

involved in its practice. In addition, many scientists also study citizen science as a research approach and as a way for science and society to interact and collaborate. This book provides a representation of the practices as well as scientific and societal outcomes in different disciplines. It reflects the contribution of citizen science to societal development, education, or innovation and provides an overview of the field of actors as well as on tools and guidelines. It serves as an introduction for anyone who wants to get involved in and learn more about the science of citizen science.

Wave and Tidal Energy Deborah Greaves 2018-03-28 A comprehensive text covering all aspects of wave and tidal energy Wave and Tidal Energy provides a comprehensive and self-contained review of the developing marine renewable energy sector, drawing from the latest research and from the experience of device testing. The book has a twofold objective: to provide an overview of wave and tidal energy suitable for newcomers to the field and to serve as a reference text for advanced study and practice. Including detail on key issues such as resource characterisation, wave and tidal technology, power systems, numerical and physical modelling, environmental impact and policy. The book also includes an up-to-date review of developments worldwide and case studies of selected projects. Key features: A comprehensive and self-contained text covering all aspects of the multidisciplinary fields of wave and tidal energy. Draws upon the latest research in wave and tidal energy and the experience of leading practitioners in numerical and laboratory modelling. Regional developments worldwide are reviewed and representative projects are presented as case studies. Wave and Tidal Energy is an invaluable resource to a wide range of readers, from engineering students to technical managers and policymakers to postgraduate students and researchers.

Statistics in Spectroscopy Howard

Mark 2003-12-10 Statistics in Spectroscopy, Second Edition, is an expanded and updated version of the original title. The aim of the book is to bridge the gap between the average chemist/spectroscopist and the study of statistics. The book introduces the novice reader to the ideas and concepts of statistics and uses spectroscopic examples to show how these concepts are applied. Several key statistical concepts are introduced through the use of computer programs. Serves as a primer for all chemists who

Liars, Inc. Paula Stokes 2015-03-24 A dark and twisted psychological tale, which Kirkus Reviews called

"captivating to the very end" in a starred review—perfect for fans of *I Hunt Killers* and *Gone Girl*. Max Cantrell has never been a big fan of the truth, so when the opportunity arises to sell forged permission slips and cover stories to his classmates, it sounds like a good way to make a little money. So with the help of his friend Preston and his girlfriend, Parvati, Max starts *Liars, Inc.* Suddenly everybody needs something, and the cash starts pouring in. Who knew lying could be so lucrative? When Preston wants his own cover story to go visit a girl he met online, Max doesn't think twice about it. But then Preston never comes home. And the evidence starts to pile up—terrifying clues that lead to Preston's body. Terrifying clues that point to Max as the killer...

The Spatial and Economic Transformation of Mountain Regions

Manfred Perlik 2019-01-03 Mountain regions are subject to a unique set of economic pressures: they act as collective enterprises which have to valorize rare resources, such as spectacular landscapes. While primarily rural in nature, they often border large cities, and the development of industries such as hydroelectric power and the rapid development of tourism can bring about sweeping socio-economic change and vast demographic alterations. The Spatial and Economic Transformation of Mountain Regions describes the socio-economic changes and spatial impacts of the last four decades,

with the transformation of mountain areas held up as an example. Much of the real-world context draws on the Alps, spanning as they do the significant economies of France, Italy, Germany, Switzerland, and Austria. Chapters address academic discourse on regional development in these mountain areas and suggest alternative approaches to the liberal-productivist societal model. This book will be essential reading for professionals, institutions, and NGOs searching for counter-models to the existing marketing approaches for peripheral areas. It will also be of interest to students of regional development, economic geography, environmental studies, and industrial economics.

Drafting Successful Access and Benefit-sharing Contracts Tomme Rosanne Young 2017 In *Drafting Successful Access and Benefit-sharing Contracts*, Young and Tvedt offer an insightful and profound analysis of how ABS can be made truly functional through the use of legally binding and enforceable contracts. Contracts are foreseen as the main legal tool for making access and benefit sharing work, thus realizing the third objective of the Convention on Biological Diversity. Many years have gone by since contracts were first suggested as a solution to resolve the challenges of ABS, but so far few successful benefit-sharing cases have been presented. This volume explores the possibilities and limits of contract law which both practitioners and stakeholders need in order for ABS contracts to become an effective solution for sustainable use of biological diversity.

No specimen left behind: mass digitization of natural history collections Vincent Smith 2012-07-20 Centuries of exploration and discovery have documented the diversity of life on Earth. Records of this biodiversity are, for the most part, distributed across varied and distinct natural history collections worldwide. This makes the task of extracting and mobilising the information within these collections an immense challenge. In this special issue of *ZooKeys*, 18 papers

by 81 authors examine progress and prospects for mass digitising entire natural history collections. These papers provide a snapshot of activity, in what is a fast moving field that is seeing ever-increasing degrees of collaboration across disciplines and between collection-based institutions. Examples of research covered by these articles include a description to efforts to digitise 30 million plant, invertebrate and vertebrate specimens at NCB Naturalis in the Netherlands; new scanning and telemicroscopy solutions to digitise the millions of pinned insect specimens held in the Australian National Insect Collection and its European and North American counterparts; citizen science projects being used to crowdsource the transcription of thousands of specimen labels and field notebooks; and new data portals providing central access to millions of biological specimens across Europe. Many of these projects deal with the unique challenges associated with major collections that have built up over several centuries, with different communities of practices and different user communities. Despite many differences, standards for collection acquisition, preservation and documentation are broadly consistent, meaning that there is sufficient common ground to bring together the enormous amounts of data that are being exposed through mass digitisation efforts. These data will become the new frontier for natural history collection management and research in the next decade.

Coasts and Estuaries Eric Wolanski 2019-01-24 *Coasts and Estuaries: The Future* provides valuable information on how we can protect and maintain natural ecological structures while also allowing estuaries to deliver services that produce societal goods and benefits. These issues are addressed through chapters detailing case studies from estuaries and coastal waters worldwide, presenting a full range of natural variability and human pressures. Following this, a series of chapters written by scientific leaders worldwide

synthesizes the problems and offers solutions for specific issues graded within the framework of the socio-economic-environmental mosaic. These include fisheries, climate change, coastal megacities, evolving human-nature interactions, remediation measures, and integrated coastal management. The problems faced by half of the world living near coasts are truly a worldwide challenge as well as an opportunity for scientists to study commonalities and differences and provide solutions. This book is centered around the proposed DAPSI(W)R(M) framework, where drivers of basic human needs requires activities that each produce pressures. The pressures are mechanisms of state change on the natural system and Impacts on

societal welfare (including well-being). These problems then require responses, which are the solutions relating to governance, socio-economic and cultural measures (Scharin et al 2016). Covers estuaries and coastal seas worldwide, integrating their commonality, differences and solutions for sustainability Includes global case studies from leading worldwide contributors, with accompanying boxes highlighting a synopsis about a particular estuary and coastal sea, making all information easy to find Presents full color images to aid the reader in a better understanding of details of each case study Provides a multi-disciplinary approach, linking biology, physics, climate and social sciences