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Transdisciplinary Theory, Practice and Education Dena Fam
2018-08-27 This exciting new state-of-the art book reviews, explores and advocates ways in which collaborative research endeavours can, through a transdisciplinary lens, enhance student,

academic and social experiences. Drawing from a wide range of knowledges, contexts, geographical locations and internationally renowned expertise, the book provides a unique look into the world of transdisciplinary thinking, collaborative learning and action. In doing so, the book is

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action orientated, reflective, theoretical and intriguing and provides a place for all of these to meet and mingle in the spirit of curiosity and imagination.

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.

Dr. Eleanor's Book of Common Ants Eleanor

Spicer Rice 2017-08-03 Did you know that for every human on earth, there are about one million ants? They are among the longest-lived insects—with some ant queens passing the thirty-year mark—as well as some of the strongest. Fans of both

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the city and countryside alike, ants decompose dead wood, turn over soil (in some places more than earthworms), and even help plant forests by distributing seeds. But while fewer than thirty of the nearly one thousand ant species living in North America are true pests, we cringe when we see them marching across our kitchen floors. No longer! In this witty, accessible, and beautifully illustrated guide, Eleanor Spicer Rice, Alex Wild, and Rob Dunn metamorphose creepy-crawly revulsion into myrmecological wonder. Emerging from Dunn's ambitious citizen science project Your Wild Life (an initiative based at North Carolina State University), Dr. Eleanor's Book of Common Ants provides an eye-opening entomological overview of the natural history of species most

noted by project participants—and even offers tips on keeping ant farms in your home. Exploring species from the spreading red imported fire ant to the pavement ant, and featuring Wild's stunning photography, this guide will be a tremendous resource for teachers, students, and scientists alike. But more than this, it will transform the way we perceive the environment around us by deepening our understanding of its littlest inhabitants, inspiring everyone to find their inner naturalist, get outside, and crawl across the dirt—magnifying glass in hand.

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

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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 out 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

Storms of My

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Grandchildren James Hansen 2011-01-04 Dr James Hansen, the world's leading scientist on climate issues, speaks out for the first time with the full truth about global warming: the planet is hurtling to a climatic point of no return. Hansen - whose climate predictions have come to pass again and again, beginning in the 1980s when he first warned US Congress about global warming - is the single most credible voice on the subject worldwide. He paints a devastating but all-too-realistic picture of what will happen if we continue to follow the course we're on. But he is also a hard-headed optimist, and shows that there is still time to take the urgent, strong action needed to save humanity. *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, proanthoc

yanidins, 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 be published online within the Encyclopedia of Analytical Chemistry via

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*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 multiscalar
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

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importance of allegorical art and literature in understanding our global environmental crisis. *UK Aid Great Britain*. HM Treasury 2015

A Shorter History of Science William Cecil Dampier Dampier 1959

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.

Systems Thinking for Health Systems Strengthening World Health Organization 2009

Makes the case for systems thinking in an easily accessible form for a broad interdisciplinary audience, including health system stewards, programme implementers, researchers, evaluators, and funding partners.

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.

DSSSB Rph Editorial Board 2020-10 The present book has been specially published for the aspirants of Librarian Recruitment Exam conducted by the DSSSB. The book comprises, along with the Specialised Study and Practice Material, a Solved Question Paper to make you familiar with the exam pattern, the

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type of questions asked and their answers. Detailed Explanatory Answers have also been provided for the Selected Questions for Better Understanding of readers. The book contains Specialised Study and Practice Material with numerous Multiple Choice Question-Answers on all the important subjects relevant to the exam. All the questions have been solved by respective subject-experts with due diligence. It is believed, the book will prove very useful for study, practice and during precious moments before the exam for reference and revision. The book is highly recommended to Sharpen your Problem Solving Skills with thorough practice of numerous questions provided, and prepare yourself to face the exam with

Confidence, Successfully. While the specialised study and practice material of this book is aimed to prepare you for Sure Success, your own intelligent study and practice combined with this will definitely Ensure you a Bright Career as Librarian.

Human-Insect

Interactions Sergey

Govorushko 2018-01-09

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.

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.

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 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.

Successful Natural Science 1999

Classroom Discourse and the Space of Learning
Ferenc Marton
2004-05-20 Classroom Discourse and the Space of Learning is about

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learning in schools and the central role of language in learning. The investigations of learning it reports are based on two premises: First, whatever you are trying to learn, there are certain necessary conditions for succeeding--although you cannot be sure that learning will take place when those conditions are met, you can be sure that no learning will occur if they are not. The limits of what is possible to learn is what the authors call "the space of learning." Second, language plays a central role in learning--it does not merely convey meaning, it also creates meaning. The book explicates the necessary conditions for successful learning and employs investigations of classroom discourse data to demonstrate how the space of learning is linguistically

constituted in the classroom. Classroom Discourse and the Space of Learning: *makes the case that an understanding of how the space of learning is linguistically constituted in the classroom is best achieved through investigating "classroom discourse" and that finding out what the conditions are for successful learning and bringing them about should be the teacher's primary professional task. Thus, it is fundamentally important for teachers and student teachers to be given opportunities to observe different teachers teaching the same thing, and to analyze and reflect on whether the classroom discourse in which they are engaged maximizes or minimizes the conditions for learning; *is both more culturally situated and

more generalizable than many other studies of learning in schools. Each case of classroom teaching clearly demonstrates how the specific language, culture, and pedagogy moulds what is happening in the classroom, yet at the same time it is possible to generalize from these culturally specific examples the necessary conditions that must be met for the development of any specific capability regardless of where the learning is taking place and what other conditions might be present; and *encompasses both theory and practice--providing a detailed explication of the theory of learning underlying the analyses of classroom teaching reported, along with close analyses of a number of authentic cases of classroom teaching driven by

classroom discourse data which have practical relevance for teachers. Intended for researchers and graduate students in education, teacher educators, and student teachers, Classroom Discourse and the Space of Learning is practice- and content-oriented, theoretical, qualitative, empirical, and focused on language, and links teaching and learning in significant new ways.

Sustainability on University Campuses: Learning, Skills Building and Best Practices

Walter Leal Filho 2019-06-03 The implementation of sustainability initiatives on campuses is an essential component of promoting sustainability in the higher education context. In addition to reflecting an awareness of environmental issues, campus programmes

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demonstrate how seriously universities take sustainability at the institutional level. There is a lack of truly interdisciplinary publications that comprehensively address the issue of campus greening, and there is an even greater need for publications that do so at a truly international level. This book meets these needs. It is one of the outcomes of the "Second Symposium on Sustainability in University Campuses" (SSUC-2018), which was jointly organised by the University of Florence (Italy), Manchester Metropolitan University (UK), the Research and Transfer Centre "Sustainable Development and Climate Change Management" and the "European School of Sustainability Science and Research" at the Hamburg University of Applied Sciences

(Germany), in cooperation with the Inter-University Sustainable Development Research Programme (IUSDRP). The book showcases examples of campus-based research and teaching projects, regenerative campus design, low-carbon and zero-carbon buildings, waste prevention, and resilient transport, among others. Ultimately, it demonstrates the role of campuses as platforms for transformative social learning and research, and explores the means by which university campuses can be made more sustainable. The aims of this publication are as follows: • to provide universities with essential information on campus greening and sustainable campus development initiatives from around the world; • to share ideas and

lessons learned in the course of research, teaching and projects on campus greening and design, especially successful initiatives and good practice; and • to introduce methodological approaches and projects intended to integrate the topic of sustainable development in campus design and operations. This book gathers contributions from researchers and practitioners in the field of campus greening and sustainable development in the widest sense, from business and economics, to the arts, administration and the environment, and hailing from Europe, Latin America, North America and Asia.

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

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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.

A Forest Journey: The Story of Wood and Civilization John Perlin

2005-09-20 A contemporary view of the effects of wood, as used for building and fuel, and of deforestation on the development of civilization. Until the ascendancy of fossil fuels, wood has been the principal fuel and building material from the dawn of civilization. Its abundance or scarcity greatly shaped, as *A Forest Journey* ably relates, the culture, demographics, economy, internal and external

politics, and technology of successive societies over the millennia. The book's comprehensive coverage of the major role forests have played in human life--told with grace, fluency, imagination, and humor--gained it recognition as a Harvard Classic in Science and World History and as one of Harvard's "One-Hundred Great Books." Others receiving the honor include such luminaries as Stephen Jay Gould and E. O. Wilson. This new paperback edition will add a prologue and an epilogue to reflect the current situation in which forests have become imperative for humanity's survival.

Freshwater Animal Diversity Assessment

E.V. Balian 2008-04-27 This book offers a comprehensive study of species- and genus-level diversity and chorology.

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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.

Wild Connection Jennifer L. Verdolin 2014-06-03 Wild Kingdom meets Sex and the City in this scientific perspective on dating and relationships. A specialist in animal behavior compares the courtship rituals and mating behaviors of animals to their human equivalents, revealing the many and often surprising ways we are both similar to and different from other species. What makes an individual attractive to the opposite sex? Does size matter? Why do we tend to "keep score" in our relationships? From perfume and cosmetics to online dating and therapy, our ultimate

goal is to successfully connect with someone. So why is romance such an effort for humans, while animals have little trouble getting it right? Wild Connection is full of fascinating and suggestive observations about animal behavior. For example, in most species smell is an important component of determining compatibility. So are we humans doing the right thing by masking our natural scents with soaps and colognes? Royal albatrosses have a lengthy courtship period lasting several years. These birds instinctively know that casual hook-ups are not the way to find a reliable mate. And older female chimpanzees often mate with younger males. Is this the evolutionary basis of the human "cougar" phenomenon? Fun to read as well as educational, this unique

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take on the perennial human quest to find the ideal mate shows that we have much to learn from our cousins in the wild. 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. **Implementing Ecological Integrity** Philippe Crabbé 2012-12-06 This book contains some of the papers which were presented at the NATO Science, Environmental Security, Advanced Research Workshop on "Implementing Ecological Integrity: Restoring Regional and Global Environmental and Human Health" held in Budapest from June 26 to July 1, 1999. All papers presented are summarized in the Introduction and,

in some cases, shorter versions are published. A multidisciplinary core of American and Western European participants had met over the preceding years to discuss the concept of ecological integrity. The term "ecological integrity" is found in environmental policy documents but, generally, is not defined. It competes with other recent terms, or environmental narratives, such as "ecosystem health" and "sustainable development" and also with older ones such as "conservation". Therefore, it is deemed important not only to sort out the definitions of these concepts but also to find out whether their practical implications differ. Moreover, it was interesting to find out whether participants from Central and Eastern

European Countries (CEEC) and, more generally, from NATO partner countries would be, first, responsive to this concept and, second, would hold different views of it. This explains the broad, albeit not always consistent, range of topics which are covered in this book. The core group learned that CEEC and other NATO partners participants were responsive to the concept but that they were less exclusive of human influence.

ACS Style Guide Anne M. Coghill 2006 In the time since the second edition of The ACS Style Guide was published, the rapid growth of electronic communication has dramatically changed the scientific, technical, and medical (STM) publication world. This dynamic mode of dissemination is enabling scientists,

engineers, and medical practitioners all over the world to obtain and transmit information quickly and easily. An essential constant in this changing environment is the requirement that information remain accurate, clear, unambiguous, and ethically sound. This extensive revision of The ACS Style Guide thoroughly examines electronic tools now available to assist STM writers in preparing manuscripts and communicating with publishers. Valuable updates include discussions of markup languages, citation of electronic sources, online submission of manuscripts, and preparation of figures, tables, and structures. In keeping current with the changing environment, this edition also contains

references to many resources on the internet. With this wealth of new information, The ACS Style Guide's Third Edition continues its long tradition of providing invaluable insight on ethics in scientific communication, the editorial process, copyright, conventions in chemistry, grammar, punctuation, spelling, and writing style for any STM author, reviewer, or editor. The Third Edition is the definitive source for all information needed to write, review, submit, and edit scholarly and scientific manuscripts.

Cannabis in Medicine

Kenneth Finn 2020-07-09
Legalization of marijuana is becoming increasingly prominent in the United States and around the world. While there is some discussion

of the relationship between marijuana and overall health, a comprehensive resource that outlines the medical literature for several organ systems, as well as non-medical societal effects, has yet to be seen. While all physicians strive to practice evidence-based medicine, many clinicians aren't aware of the facts surrounding cannabis and are guided by public opinion. This first of its kind book is a comprehensive compilation of multiple facets of cannabis recommendation, use and effects from a variety of different perspectives. Comprised of chapters dedicated to separate fields of medicine, this evidence-based guide outlines the current data, or lack thereof, as well as the need for further study. The book begins with a general overview of the

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neurobiology and pharmacology of THC and hemp. It then delves into various medical concerns that plague specific disciplines of medicine such as psychiatry, cardiology, gastrointestinal and neurology, among others. The end of the book focuses on non-medical concerns such as public health and safety, driving impairment and legal implications. Comprised of case studies and meta-analyses, Cannabis in Medicine: An Evidence-Based Approach provides clinicians with a concise, evidence-based guide to various health concerns related to the use of marijuana. By addressing non-medical concerns, this book is also a useful resource for professionals working in the public health and legal fields.

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.

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

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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 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.

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. Advanced Ocean Modelling Jochen Kämpf 2010-04-30 This book focuses on motions of incompressible fluids of a freely moving surface being influenced by both the Earth's rotation and density stratification. In contrast to traditional textbooks in

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the field of geophysical fluid dynamics, such as those by Cushman-Roisin (1994) and Gill (1982), this book uses the method of process-oriented hydrodynamic modelling to illustrate a rich variety of fluid phenomena. To this end, the reader can adopt the model codes, found on the Springer server accompanying this book, to reproduce most graphs of this book and, even better, to create animation movies. The reader can also employ the codes as templates for own independent studies. This can be done by a lay person as a hobby activity, undergraduate or postgraduate students as part of their education, or professional scientists as part of research. Exercises of this book are run with open-source software that can be freely downloaded from the

Internet. This includes the FORTRAN 95 compiler "G95" used for execution of model simulations, the data visualisation program "SciLab", and "ImageMagick" for the creation of graphs and GIF animations, which can be watched with most Internet browsers.

Global Innovation Index 2016 Cornell University 2016 The Global Innovation Index ranks the innovation performance of 128 countries and economies around the world, based on 82 indicators. This edition explores the impact of innovation-oriented policies on economic growth and development. High-income and developing countries alike are seeking innovation-driven growth through different strategies. Some countries are successfully improving their innovation capacity, while others

still struggle.

Research in Education

James H. McMillan 1997

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

Climate Code Red David

Spratt 2008-06-30 This

meticulously documented

call-to-action reveals

extensive scientific

evidence that the global

warming crisis is far

worse than officially

indicated – and that

we're almost at the

point of no return.

Serious climate-change

impacts are already

happening: large ice-

sheets are

disintegrating, sea-

level rises will reach 5

metres this century, and

we are seeing

devastating species

loss. It is no longer a

case of how much more we

can 'safely' emit, but

whether we can stop

emissions and produce a

deliberate cooling

before the Earth's

climate system reaches a

point beyond any hope of

human restoration. These

imperatives are

incompatible with

'politics as usual' and

'business as usual' – we

face a sustainability

emergency that urgently

requires a clear break

from the politics of

failure-inducing.

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compromise.

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) *Cetacean Paleobiology* Felix G. Marx 2016-05-31

Cetaceans (whales, dolphins, and porpoises) have fascinated and bewildered humans throughout history. Their mammalian affinities have been long recognized, but exactly which group of terrestrial mammals they descend from has, until recently, remained in the dark. Recent decades have produced a flurry of new fossil cetaceans, extending their fossil history to over 50 million years ago. Along with new insights from genetics and developmental studies, these discoveries have helped to clarify the place of cetaceans among mammals, and enriched our understanding of their unique adaptations for feeding, locomotion and sensory systems. Their continuously improving fossil record and successive transformation into highly specialized

marine mammals have made cetaceans a textbook case of evolution - as iconic in its own way as the origin of birds from dinosaurs. This book aims to summarize our current understanding of cetacean evolution for the serious student and interested amateur using photographs, drawings, charts and

illustrations.

New Directions in Science and Environmental Communication: Understanding the Role of Online Video-Sharing and Online Video-Sharing Platforms for Science and Research Joachim Allgaier 2022-02-11