

Question Paper 2013 Natural Science Grade 9

Disaster Management and Private Sectors Natural Gas Hydrate - Arctic Ocean Deepwater Resource Potential L'exploitation minière en Afrique Brookings Papers on Economic Activity: Spring 2019 Encyclopedia of Natural Resources - Land - Volume I The Palgrave Handbook of Environmental Restorative Justice The Butterfly in the Quantum World Hand Printing from Nature Nature Global Shock, Risks, and Asian Financial Reform Into the wild - Nature in Dreams of Rivers and Seas and Rapids by Tim Parks Proceedings of China SAE Congress 2021: Selected Papers Public History The Economic Impact of Natural Disasters in Pacific Island Countries: Adaptation and Preparedness Global Assessment Report on Disaster Risk Reduction 2015 Societies in Transition Radioactivity ECRM2013- Proceedings of the 12th European Conference on Research Methods Handbook of Environmental Psychology and Quality of Life Research Tourism Spaces The Meritocracy Trap How to Achieve Inclusive Growth Identity in Animation Highlighting the Importance of Big Data Management and Analysis for Various Applications Mineral Resources, Economics and the Environment CERN Courier Urban Water Crisis and Management Building Natural Capital Manual of British Topography Handbook of Environmental and Ecological Statistics Natural Language Processing and Chinese Computing Current Advances in Soft Robotics: Best Papers From RoboSoft 2018 Thomas Seeböhm on the Foundations of the Sciences Selected Papers from the 5th International Symposium on Mycotoxins and Toxicogenic Moulds: Challenges and Perspectives Nature Nature London Bulletin of the National Museum of Nature and Science UPSC: CSAT General Studies Paper-II Solved Paper 2011-2021 Biomass and Bioenergy Serial Sovereign Defaults and Debt Restructurings

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Disaster Management and Private Sectors Nov 03 2022 This book draws upon case studies and practices of different types of DRR involvement by the private sector from all over the world. The book comprises two parts, Part I: Overview and Regional Cases; and Part II: Country Cases. The regional cases include those from Africa, Asia, Europe, and Central America, and the country cases include ones from India, Japan, the United States, Vietnam, Thailand, Bangladesh, Malaysia, and Nepal. DRR at the international level is discussed from the perspective of the United Nations International Strategy for Disaster Reduction (UNISDR). The perspective of the Asia-Pacific Economic Cooperation (APEC) is presented in the discussion of DRR at the societal level. The private sector is becoming more active in disaster management and plays an important role in distributing relief items and sending search and rescue teams in the response phase. However, once the response stage is over, private sector involvement tends to fade. While a number of disaster risk reduction (DRR) initiatives by the private sector are documented, they remain limited. The private sector can contribute enormously to DRR by developing business continuity plans, innovating technology for early warning systems, and providing and sharing technical knowledge, skills, and resources in the field of disaster preparedness. To strengthen DRR capacity, it is crucial to involve the private sector as major actors in DRR. The primary target groups for this book are students and researchers in the fields of disaster management and DRR studies. Another target group comprises practitioners and policy makers, who will be able to apply the collective knowledge from this work to policy and decision making. The book provides an overview of the current research trends and furnishes basic knowledge on this important topic.

Urban Water Crisis and Management Aug 08 2020 Urban Water Crisis and Management: Strategies for Sustainable Development, Sixth Edition presents solutions for the current challenges of urban water and management strategies. Through contributed chapters, a framework is laid out for a reduction of the use of groundwater (heavily overused as a solution) and the alternative options for the supply of water to cities, or for urban water. Sections discuss urban water, its problems and management approaches, address the root causes of the water crisis in urban areas, and cover the scientific and technical knowledge necessary to manage water resources. Significant gaps between developed and developing nations in the procedure of water management are also addressed, along with practical information regarding recycling and the reuse of wastewater which is useful as baseline data for the future. Presents the quantitative study of water supply in urban areas, identifies water scarcity in megacities, and provides management approaches for sustainable development Identifies technology and the instruments required for the management and safe supply of water Includes case studies where these technologies have been successfully used

Hand Printing from Nature Mar 27 2022 Ideer til tekstiltryk med mønstre inspireret af naturen

L'exploitation minière en Afrique Sep 01 2022 Le boom des ressources naturelles en Afrique a tiré la croissance dans toute la région, sans contribuer de manière substantielle à améliorer le bien-être et les moyens de subsistance des citoyens. Les personnes vivant dans les pays africains richement dotés en ressources naturelles sont moins alphabétisées de 3 %, ont une espérance de vie plus faible de 4,5 ans et affichent des taux de malnutrition plus élevés chez les femmes et les enfants que dans les pays de la région n'ayant pas de ressources naturelles. Cette lenteur dans la réduction de la pauvreté est souvent attribuée à la croissance économique tirée par les ressources naturelles †“ la dénommée malédiction des ressources naturelles. Au-delà de l'impact global, les communautés vivant à proximité des centres miniers souffrent-elles également d'une malédiction des ressources naturelles ? L'exploitation minière en Afrique †“ Les communautés locales en tirent-elles parti ? examine comment l'exploitation aurifère à grande échelle dans trois pays †“ le Ghana, le Mali et la Tanzanie †“ affecte les moyens de subsistance et les communautés locales. L'analyse et les résultats des auteurs concluent qu'en moyenne, les communautés minières bénéficient d'avantages

sociaux positifs bien que limités. L'étude définit trois grands canaux – marché, fiscal et environnemental – pouvant affecter les localités. Les auteurs appliquent ce cadre d'analyse à l'exploitation aurifère à grande échelle dans les trois pays de l'étude et ils utilisent des méthodes économétriques solides pour évaluer ces effets au niveau local. Si le défi de l'extraction des ressources naturelles est traité dans toutes ses dimensions, des pistes pour une prospérité partagée et une meilleure égalité peuvent être ouvertes, créant ainsi une vie meilleure pour les familles et améliorant les perspectives des pays dans lesquels elles vivent. Ce livre a pour objectif d'éclairer les politiques publiques et le comportement des entreprises concernant le bien-être des communautés situées à proximité des sites d'extraction et les opportunités que l'activité minière peut leur offrir.

ECRM2013-Proceedings of the 12th European Conference on Research Methods May 17 2021 Complete proceedings of the 13th European Conference on Research Methodology for Business and Management Studies ECRM 2013 PRINT version Published by Academic Conferences and Publishing International Limited.

UPSC: CSAT General Studies Paper-II Solved Paper 2011-2021 Aug 27 2019 9789354881060 | The presented book aim to provide comprehensive, lucid and practice-oriented solutions. This edition is in-sync with the latest examination pattern for CSAT. The presented book covers the questions of the UPSC Civil Service Examination of General Studies in year -wise Solved Papers of the last 11 years CSAT (2011-2021). All chapters have been prepared according to the previous year's UPSC Civil Service Prelims Paper- II. This book helps in gaining good grades in the CSAT Paper -2 and will take you to next stage of UPSC CSE exam. Recommended by Faculties and Read by UPSC Toppers.

Brookings Papers on Economic Activity: Spring 2019 Jul 31 2022 Brookings Papers on Economic Activity (BPEA) provides academic and business economists, government officials, and members of the financial and business communities with timely research on current economic issues. Contents: On Secular Stagnation in the Industrialized World, Lukasz Rachel and Lawrence H. Summers A Forensic Examination of China's National Accounts, Wei Chen, Xilu Chen, Chang-Tai Hsieh, and Zheng Song A Unified Approach to Measuring u^* , Richard K. Crump, Stefano Eusepi, Maric Giannoni, and Ays ?egül S ?ahin Fiscal Space and the Aftermath of Financial Crises: How It Matters and Why, Christina D. Romer and David H. Romer Okun Revisited: Who Benefits Most from a Strong Economy? Stephanies R. Aaronson, Mary C. Daly, William L. Wascher, and David W. Wilcox On the Economics of a Carbon Tax for the United States, Gilbert E. Metcalf

Serial Sovereign Defaults and Debt Restructurings Jun 25 2019 Emerging countries that have defaulted on their debt repayment obligations in the past are more likely to default again in the future than are non-defaulters even with the same external debt-to-GDP ratio. These countries actually have repeated defaults or restructurings in short periods. This paper explains these stylized facts within a dynamic stochastic general equilibrium framework by explicitly modeling renegotiations between a defaulting country and its creditors. The quantitative analysis of the model reveals that the equilibrium probability of default for a given debt-to-GDP level is weakly increasing with the number of past defaults. The model also accords with an additional fact: lower recovery rates (high NPV haircuts) are associated with increases in spreads at renegotiation.

How to Achieve Inclusive Growth Jan 13 2021 This is an open access title available under the terms of a CC BY-NC-ND 4.0 International licence. It is free to read at Oxford Scholarship Online and offered as a free PDF download from OUP and selected open access locations. Rising inequality and widespread poverty, social unrest and polarization, gender and ethnic disparities, declining social mobility, economic fragility, unbalanced growth due to technology and globalization, and existential danger from climate change are urgent global concerns of our day. These issues are intertwined. They therefore require a holistic framework to examine their interplay and bring the various strands together. Leading academic economists have partnered with experts from several international institutions to explain the sources and scale of these challenges. They gather a wide array of empirical evidence and country experiences to lay out practical policy solutions and to devise a comprehensive and unified plan of action for combatting these economic and social disparities. This authoritative book is accessible to policy makers, students, and the general public interested in how to craft a brighter future by building a sustainable, green, and inclusive society in the years ahead.

Natural Language Processing and Chinese Computing Apr 03 2020 This two-volume set of LNAI 12340 and LNAI 12341 constitutes the refereed proceedings of the 9th CCF Conference on Natural Language Processing and Chinese Computing, NLPCC 2020, held in Zhengzhou, China, in October 2020. The 70 full papers, 30 poster papers and 14 workshop papers presented were carefully reviewed and selected from 320 submissions. They are organized in the following areas: Conversational Bot/QA; Fundamentals of NLP; Knowledge Base, Graphs and Semantic Web; Machine Learning for NLP; Machine Translation and Multilinguality; NLP Applications; Social Media and Network; Text Mining; and Trending Topics.

Nature London Oct 29 2019

Identity in Animation Dec 12 2020 Identity in Animation: A Journey into Self, Difference, Culture and the Body uncovers the meaning behind some of the most influential characters in the history of animation and questions their unique sense of who they are and how they are formed. Jane Batkin explores how identity politics shape the inner psychology of the character and their exterior motivation, often buoyed along by their questioning of 'place' and 'belonging' and driven by issues of self, difference, gender and the body. Through this, Identity in Animation illustrates and questions the construction of stereotypes as well as unconventional representations within American, European and Eastern animation. It does so with examples such as the strong gender tropes of Japan's Hayao Miyazaki, the strange relationships created by Australian director Adam Elliot and Nick Park's depiction of Britishness. In addition, this book discusses Betty Boop's sexuality and ultimate repression, Warner Bros' anarchic, self-aware characters and Disney's fascinating representation of self and society. Identity in Animation is an ideal book for students and researchers of animation studies, as well as any media and film studies students taking modules on animation as part of their course.

Proceedings of China SAE Congress 2021: Selected Papers Nov 22 2021 These proceedings gather outstanding papers presented at the China SAE Congress 2021, held on Oct. 19-21, Shanghai, China. Featuring contributions mainly from China, the biggest carmaker as well as most dynamic car market in the world, the book covers a wide range of automotive-related topics and the latest technical advances in the industry. Many of the approaches in the book will help technicians to solve practical problems that affect their daily work. In addition, the book offers valuable technical support to engineers, researchers and postgraduate students in the field of automotive engineering.

Biomass and Bioenergy Jul 27 2019 Biomass obtained from agricultural residues or forest can be used to produce different materials and bioenergy required in a modern society. As compared to other resources available, biomass is one of the most common and widespread resources in the world. Thus, biomass has the potential to provide a renewable energy source, both locally and across large areas of the world. It is estimated that the total investment in the biomass sector between 2008 and 2021 will reach the large sum of \$104 billion. Presently bioenergy is the most important renewable energy option and will remain so the near and medium-term future. Previously several countries try to explore the utilization of biomass in bioenergy and composite sector. Biomass has the potential to become the world's largest and most sustainable energy source and will be very much in demand. Bioenergy is based on resources that can be utilized on a sustainable basis all around the world and can thus serve as an effective option for the provision of energy

services. In addition, the benefits accrued go beyond energy provision, creating unique opportunities for regional development. The present book will provide an up-to-date account of non-wood, forest residues, agricultural biomass (natural fibers), and energy crops together with processing, properties and its applications to ensure biomass utilization and reuse. All aspects of biomass and bioenergy and their properties and applications will be critically re-examined. The book consists of three sections, presenting Non wood and forest products from forestry, arboriculture activities or from wood processing, agricultural biomass (natural fibers) from agricultural harvesting or processing and finally energy crops: high yield crops and grasses grown especially for energy production.

Nature Nov 30 2019

The Palgrave Handbook of Environmental Restorative Justice May 29 2022 This handbook explores the dynamic new field of Environmental Restorative Justice. Authors from diverse disciplines discuss how principles and practices of restorative justice can be used to address the threats and harms facing the environment today. The book covers a wide variety of subjects, from theoretical discussions about how to incorporate the voice of future generations, nature, and more-than-human animals and plants in processes of justice and repair, through to detailed descriptions of actual practices of Environmental Restorative Justice. The case studies explored in the volume are situated in a wide range of countries and in the context of varied forms of environmental harm – from small local pollution incidents, to endemic ongoing issues such as wildlife poaching, to cataclysmic environmental catastrophes resulting in cascades of harm to entire ecosystems. Throughout, it reveals how the relational and caring character of a restorative ethos can be conducive to finding solutions to problems through sharing stories, listening, healing, and holding people and organisations accountable for prevention and repairing of harm. It speaks to scholars in Criminology, Sociology, Law, and Environmental Justice and to practitioners, policy-makers, think-tanks and activists interested in the environment.

Into the wild - Nature in Dreams of Rivers and Seas and Rapids by Tim Parks Dec 24 2021 Seminar paper from the year 2013 in the subject English - Literature, Works, grade: 1, 3, University of Basel (Englisches Seminar), language: English, abstract: Hurricane sandy, which raged over the Eastern United States last autumn and caused widespread damage and claimed the lives of over hundred people, was a reminder of how relevant the first quote still is. And Goethe was also right in writing that nature goes its own way. His last sentence, however, is not true anymore. Humanity influences nature, causes these exceptions, and is affected by the results. In this paper, I am going to examine Tim Parks' novels Dreams of Rivers and Seas and Rapids from this point of view. In both novels the protagonists try to gain control over nature and to overcome the hardships which it imposes upon them, but finally have to recognize that it has not only prevailed, but has also altered them and their lives profoundly. As nature has a wide-ranging meaning in literature, the term needs to be narrowed down at first. While the lexical definition is understandable, describing it as "the phenomena of the physical world collectively" (OED 2013), the debate in philosophy is more complex, discussing whether nature exists in reality or only as a social construction in our heads. Dingler (2005: 29-30) concludes that in modern thinking humans consider nature to be a "Teil der Realität [...] der vom Menschen unabhängig ist." Only through knowledge is it possible to acknowledge the reality of nature. This theory is based on the Cartesian dualism, which distinguishes between the sphere of nature and the sphere of culture (31). As humans we live in the sphere of culture, yet we are also inhabitants of nature, and existed in it before we even developed a noteworthy culture. Humans are considered as being born wild and egoistically, and only through cultural influences such as education and norms do we develop the ability to live together (Borghini 2013). In the course of this paper I am now going to work out which different approaches to nature the protagonists have, and how they are related to it. Additionally, I will discuss the effects which the contact with nature has on the development of the protagonists. I am also going to identify different motifs which Parks employed in the novels, and analyze them in consideration of their relation to nature and the actions of the protagonists. Given the fact that nature is a literary topic since thousands of years, I will also contextualize and compare Park's novels with other literary writings of different origins and epochs.

Current Advances in Soft Robotics: Best Papers From RoboSoft 2018 Mar 03 2020

Thomas Seebohm on the Foundations of the Sciences Jan 31 2020 This book explores the work of Thomas Seebohm (1934-2014), a leading phenomenologist and hermeneuticist. It features papers that offer a critical and constructive dialogue about Seebohm's analyses and their implications for the sciences. The net result is an in-depth study and a helpful overview of Seebohm's general approach and his specific views on various areas of modern science. The contributors focus especially upon his final text, History as a Science and the System of the Sciences. They view this as the culmination and summary of his historical and phenomenological investigations into the foundations, nature, and limits of modern sciences. This includes not just history but the Geisteswissenschaften more generally, along with the social and natural sciences as well. The essays in this volume reflect that range. This volume presents insightful discussions about the nature and legitimacy of the human sciences as sciences and the unique character of the social sciences. It will be of interest not just as a matter of historical scholarship, but also and above all as an important contribution to phenomenology and to the philosophy of science and the sciences as such. It deserves attention by scholars from any philosophical tradition interested in thinking about the foundations of their disciplines and a philosophy of science that includes, but is not limited to, the natural sciences.

Global Assessment Report on Disaster Risk Reduction 2015 Aug 20 2021 2015 is a critical year for the future of sustainable development. The 2015 Global Assessment Report on Disaster Risk Reduction highlights the connections between disaster risk and development and shows that decades of experience in managing disasters and reducing climate and disaster risk have produced a wealth of knowledge and good practice which can be applied to achieve sustainable development. The reduction of poverty, the improvement of health and education for all, the achievement of sustainable and equitable economic growth and the protection of the health of the planet now depend on the management of disaster risks in the day-to-day decisions of governments, companies, investors, civil society organizations, households and individuals. Strengthened disaster risk reduction is essential to making development sustainable.

Handbook of Environmental Psychology and Quality of Life Research Apr 15 2021 This Handbook presents a broad overview of the current research carried out in environmental psychology which puts into perspective quality of life and relationships with living spaces, and shows how this original analytical framework can be used to understand different environmental and societal issues. Adopting an original approach, this Handbook focuses on the links with other specialties in psychology, especially social and health psychology, together with other disciplines such as geography, architecture, sociology, anthropology, urbanism and engineering. Faced with the problems of society which involve the quality of life of individuals and communities, it is fundamental to consider the relationships an individual has with his different living spaces. This issue of the links between quality of life and environment is becoming increasingly significant with, at a local level, problems resulting from different types of annoyances, such as pollution and noise, while, at a global level, there is the central question of climate change with its harmful consequences for humans and the planet. How can the impact on well-being of environmental nuisances and threats (for example, natural risks, pollution, and noise) be reduced? How can the quality of life within daily living spaces (home, cities, work environments) be improved? Why is it important to understand the psychological issues of our relationship with the global environment (climatic warming, ecological behaviours)? This Handbook is intended not only for students of various disciplines (geography, architecture, psychology, town planning, etc.) but also for social decision-makers and players who will find in it both theoretical and methodological perspectives, so that psychological and environmental dimensions can be better taken into account in their working practices.

Global Shock, Risks, and Asian Financial Reform Jan 25 2022 The growth of financial markets has clearly outpaced the development of financial market regulations. With growing complexity in the world of finance, and the resultant higher frequency of financial crises, all eyes have shifted toward the current inad

The Meritocracy Trap Feb 11 2021 A revolutionary new argument from eminent Yale Law professor Daniel Markovits attacking the false promise of meritocracy It is an axiom of American life that advantage should be earned through ability and effort. Even as the country divides itself at every turn, the meritocratic ideal – that social and economic rewards should follow achievement rather than breeding – reigns supreme. Both Democrats and Republicans insistently repeat meritocratic notions. Meritocracy cuts to the heart of who we are. It sustains the American dream. But what if, both up and down the social ladder, meritocracy is a sham? Today, meritocracy has become exactly what it was conceived to resist: a mechanism for the concentration and dynastic transmission of wealth and privilege across generations. Upward mobility has become a fantasy, and the embattled middle classes are now more likely to sink into the working poor than to rise into the professional elite. At the same time, meritocracy now ensnares even those who manage to claw their way to the top, requiring rich adults to work with crushing intensity, exploiting their expensive educations in order to extract a return. All this is not the result of deviations or retreats from meritocracy but rather stems directly from meritocracy's successes. This is the radical argument that Daniel Markovits prosecutes with rare force. Markovits is well placed to expose the sham of meritocracy. Having spent his life at elite universities, he knows from the inside the corrosive system we are trapped within. Markovits also knows that, if we understand that meritocratic inequality produces near-universal harm, we can cure it. When *The Meritocracy Trap* reveals the inner workings of the meritocratic machine, it also illuminates the first steps outward, towards a new world that might once again afford dignity and prosperity to the American people.

Highlighting the Importance of Big Data Management and Analysis for Various Applications Nov 10 2020 This book addresses the impacts of various types of services such as infrastructure, platforms, software, and business processes that cloud computing and Big Data have introduced into business. Featuring chapters which discuss effective and efficient approaches in dealing with the inherent complexity and increasing demands in data science, a variety of application domains are covered. Various case studies by data management and analysis experts are presented in these chapters. Covered applications include banking, social networks, bioinformatics, healthcare, transportation and criminology. *Highlighting the Importance of Big Data Management and Analysis for Various Applications* will provide the reader with an understanding of how data management and analysis are adapted to these applications. This book will appeal to researchers and professionals in the field.

Nature Feb 23 2022

Encyclopedia of Natural Resources - Land - Volume I Jun 29 2022 With unprecedented attention on global change, the current debate revolves around the availability and sustainability of natural resources and how to achieve equilibrium between what society demands from natural environments and what the natural resource base can provide. A full understanding of the range of issues, from the consequences of the changing resource bases to the degradation of ecological integrity and the sustainability of life, is crucial to the process of developing solutions to this complex challenge. Authored by world-class scientists and scholars, *The Encyclopedia of Natural Resources* provides an authoritative reference on a broad spectrum of topics such as the forcing factors and habitats of life; their histories, current status, and future trends; and their societal connections, economic values, and management. The content presents state-of-the-art science and technology development and perspectives of resource management. Written and designed with a broad audience in mind, the entries clearly elucidate the issues for readers at all levels without sacrificing the scientific rigor required by professionals in the field. Volume I – Land includes 98 entries that cover the topical areas of renewable and nonrenewable natural resources such as forest and vegetative; soil; terrestrial coastal and inland wetlands; landscape structure and function and change; biological diversity; ecosystem services, protected areas, and management; natural resource economics; and resource security and sustainability. Natural resources represent such a broad scope of complex and challenging topics that a reference book must cover a vast number of subjects in order to be titled an encyclopedia. *The Encyclopedia of Natural Resources* does just that. The topics covered help you face current and future issues in the maintenance of clean air and water as well as the preservation of land resources and native biodiversity. Also Available Online This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for researchers, students, and librarians, including: Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options Contact Taylor and Francis for more information or to inquire about subscription options and print/online combination packages. US: (Tel) 1.888.318.2367; (E-mail) e-reference@taylorandfrancis.com International: (Tel) +44 (0) 20 7017 6062; (E-mail) online.sales@tandf.co.uk

The Economic Impact of Natural Disasters in Pacific Island Countries: Adaptation and Preparedness Sep 20 2021 Pacific island countries are highly vulnerable to various natural disasters which are destructive, unpredictable and occur frequently. The frequency and scale of these shocks heightens the importance of medium-term economic and fiscal planning to minimize the adverse impact of disasters on economic development. This paper identifies the intensity of natural disasters for each country in the Pacific based on the distribution of damage and population affected by disasters, and estimates the impact of disasters on economic growth and international trade using a panel regression. The results show that “severe” disasters have a significant and negative impact on economic growth and lead to a deterioration of the fiscal and trade balance. We also find that the negative impact on growth is stronger for more intense disasters. Going further this paper proposes a simple and consistent method to adjust IMF staff's economic projections and debt sustainability analysis for disaster shocks for the Pacific islands. Better incorporating the economic impact of natural disasters in the medium- and long-term economic planning would help policy makers improve fiscal policy decisions and to be better adapted and prepared for natural disasters.

Bulletin of the National Museum of Nature and Science Sep 28 2019

Building Natural Capital Jul 07 2020 "This report advocates placing REDD+ into a larger planning framework that should involve multiple influences (especially those driving deforestation, albeit sometimes inadvertently). This framework would go beyond forests to ultimately serve the needs of all sectors of society, e.g. agricultural, financial and urban. REDD+ would thereby add value to the many other initiatives that are being implemented within these sectors. No longer simply a pilot effort, REDD+ would take its place as a critical element in the drive for a Green Economy."--Publisher's description.

Selected Papers from the 5th International Symposium on Mycotoxins and Toxicogenic Moulds: Challenges and Perspectives Jan 01 2020 This book is a printed edition of the Special Issue "Selected Papers from the 5th International Symposium on Mycotoxins and Toxicogenic Moulds: Challenges and Perspectives" that was published in *Toxins*

Manual of British Topography Jun 05 2020

Radioactivity Jun 17 2021 A recipient of the PROSE 2017 Honorable Mention in Chemistry & Physics, *Radioactivity: Introduction and History, From the Quantum to Quarks, Second Edition* provides a greatly expanded overview of radioactivity from natural and artificial sources on earth, radiation of cosmic origins, and an introduction to the atom and its nucleus. The book also includes historical accounts of the lives, works, and major achievements of many famous pioneers and Nobel Laureates from 1895 to the present. These leaders in the field have contributed to our knowledge of the science of the atom, its nucleus, nuclear

decay, and subatomic particles that are part of our current knowledge of the structure of matter, including the role of quarks, leptons, and the bosons (force carriers). Users will find a completely revised and greatly expanded text that includes all new material that further describes the significant historical events on the topic dating from the 1950s to the present. Provides a detailed account of nuclear radiation – its origin and properties, the atom, its nucleus, and subatomic particles including quarks, leptons, and force carriers (bosons) Includes fascinating biographies of the pioneers in the field, including captivating anecdotes and insights Presents meticulous accounts of experiments and calculations used by pioneers to confirm their findings

Public History Oct 22 2021 Public History: A Practical Guide explores history in the public sphere and examines the variety of skills that historians require in the practice of public history. It discusses how through various mediums of interpretation and presentation a range of actors, which include museums, archives, government agencies, community history societies and the media and digital media, make history accessible to a wider audience. It provides the reader with an overview of the wider-world application and communication of history beyond the classroom through core case studies for each sector that include ideas for best practice 'in the field'. This book offers an accessible and engaging synopsis of a topic that has not previously been covered. By focusing on an area of study that has changed substantially in the last decade, Public History: A Practical Guide presents a comprehensive outline of the practice of 'public history', and provides ideas for future methodological approaches as well as a reference point for planning professional development in order to gain future employment in these sectors. In the current economic climate, students need to understand the potential use of history beyond university; this book contains the tools and advice needed for them to get one step ahead in terms of knowledge, skills and experience.

CERN Courier Sep 08 2020

Natural Gas Hydrate - Arctic Ocean Deepwater Resource Potential Oct 02 2022 The book is an up-to-date basic reference for natural gas hydrate (NGH) in the Arctic Ocean. Geographical, geological, environmental, energy, new technology, and regulatory matters are discussed. The book should be of interest to general readers and scientists and students as well as industry and government agencies concerned with energy and ocean management. NGH is a solid crystalline material that compresses gas by about a factor of about 164 during crystallization from natural gas (mainly methane) - rich pore waters over time. NGH displaces water and may form large concentrations in sediment pore space. Its formation introduces changes in the geotechnical character of host sediment that allows it to be distinguished by seismic and electric exploration methods. The chemical reaction that forms NGH from gas and water molecules is highly reversible, which allows controlled conversion of the NGH to its constituent gas and water. This can be achieved rapidly by one of a number of processes including heating, depressurization, inhibitor injection, dissolution, and molecular replacement. The produced gas has the potential to make NGH a valuable unconventional natural gas resource, and perhaps the largest on earth. Estimates for NGH distribution, concentration, economic targets, and volumes in the Arctic Ocean have been carried out by restricting the economic target to deepwater turbidite sands, which are also sediment hosts for more deeply buried conventional hydrocarbon deposits. Resource base estimates are based on NGH petroleum system analysis approach using industry-standard parameters along with analogs from three relatively well known examples (Nankai-Japan, Gulf of Mexico-United States, and Arctic permafrost hydrate). Drilling data has substantiated new geotechnical-level seismic analysis techniques for estimating not just the presence of NGH but prospect volumes. In addition to a volumetric estimate for NGH having economic potential, a sedimentary depositional model is proposed to aid exploration in the five different regions around the deep central Arctic Ocean basin. Related topics are also discussed. Transport and logistics for NGH may also be applicable for stranded conventional gas and oil deposits. Arising from a discussion of new technology and methodologies that could be applied to developing NGH, suggestions are made for the lowering of exploration and capital expenses that could make NGH competitive on a produced cost basis. The basis for the extraordinarily low environmental risk for exploration and production of NGH is discussed, especially with respect to the environmentally fragile Arctic region. It is suggested that because of the low environmental risk, special regulations could be written that would provide a framework for very low cost and safe development.

Handbook of Environmental and Ecological Statistics May 05 2020 This handbook focuses on the enormous literature applying statistical methodology and modelling to environmental and ecological processes. The 21st century statistics community has become increasingly interdisciplinary, bringing a large collection of modern tools to all areas of application in environmental processes. In addition, the environmental community has substantially increased its scope of data collection including observational data, satellite-derived data, and computer model output. The resultant impact in this latter community has been substantial; no longer are simple regression and analysis of variance methods adequate. The contribution of this handbook is to assemble a state-of-the-art view of this interface. Features: An internationally regarded editorial team. A distinguished collection of contributors. A thoroughly contemporary treatment of a substantial interdisciplinary interface. Written to engage both statisticians as well as quantitative environmental researchers. 34 chapters covering methodology, ecological processes, environmental exposure, and statistical methods in climate science.

Mineral Resources, Economics and the Environment Oct 10 2020 Written for students and professionals, this revised textbook surveys the mineral industry from geological, environmental and economic perspectives. Thoroughly updated, the text includes a new chapter on technology industry metals as well as separate chapters on mineral economics and environmental geochemistry. Carefully designed figures simplify difficult concepts and show the location of important deposits and trade patterns, emphasising the true global nature of mineral resources. Featuring boxes highlighting special interest topics, the text equips students with the skills they need to contribute to the energy and mineral questions currently facing society, including issues regarding oil pipelines, nuclear power plants, water availability and new mining locations. Technical terms are highlighted when first used, and references are included to allow students to delve more deeply into areas of interest. Multiple choice and short answer questions are provided for instructors online at www.cambridge.org/kesler to complete the teaching package.

Tourism Spaces Mar 15 2021 Geographic space is a fundamental and essential construct of the physical reality within which we live, move, and construct our world. Through space we create 'others' (anything that is any distance from 'us') and we experience time (by moving from one place point to another). Because it is so fundamental to our experience, we often take geographic space for granted. Tourism Spaces: Environments, Locations, and Movements shows some of the ways that geographers and other social scientists bring spatial considerations to the forefront of our research and understanding of tourism. This is seen through the spatial arrangements and distributions of tourism phenomena, such as attractions, destinations, and in the spatial behaviour of tourists themselves. Today, these spatial arrangements and patterns are increasingly being captured, analysed, and understood through various forms of formal and informal digital data. The chapters in this book were originally published as a special issue of Tourism Geographies.

The Butterfly in the Quantum World Apr 27 2022 Butterfly in the Quantum World by Indu Satija, with contributions by Douglas Hofstadter, is the first book ever to tell the story of the "Hofstadter butterfly", a beautiful and fascinating graph lying at the heart of the quantum theory of matter. The butterfly came out of a simple-sounding question: What happens if you immerse a crystal in a magnetic field? What energies can the electrons take on? From 1930 onwards, physicists struggled to answer this question, until 1974, when graduate student Douglas Hofstadter discovered that the answer was a graph consisting of nothing but copies of itself nested down infinitely many times. This wild mathematical object caught the physics world totally by surprise, and it continues to mesmerize physicists and mathematicians today. The butterfly plot

is intimately related to many other important phenomena in number theory and physics, including Apollonian gaskets, the Foucault pendulum, quasicrystals, the quantum Hall effect, and many more. Its story reflects the magic, the mystery, and the simplicity of the laws of nature, and Indu Satija, in a wonderfully personal style, relates this story, enriching it with a vast number of lively historical anecdotes, many photographs, beautiful visual images, and even poems, making her book a great feast, for the eyes, for the mind and for the soul.

Societies in Transition Jul 19 2021 The second volume of the trans-disciplinary series "Research in Peace and Reconciliation" looks at ways of dealing with the past in Sub-Saharan Africa in recent decades and highlights the variety of peaceful strategies and processes. It asks to what extent this variety fosters the development of alternative methods for the transformation of violent conflict. The contributions focus on different African countries and regions as Chad, Nigeria, Rwanda, Uganda, Namibia, Zimbabwe, and South Africa. They take into account the influence of particular cultural contexts on processes of reconciliation. In doing so, they emphasize the importance of religions, rites, and tribal customs as well as the complex legacy of colonialism. They also look at the presentation of the topic in Western media. Many thanks go to the Ernst-Abbe-Foundation (Jena) for its generous support of the publication.