

Physical Sciences

November

EXAM PAPERS

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The Secure and the Dispossessed Nick Buxton, Ben Hayes, 2015-11-20 While the world's scientists and many of its inhabitants despair at the impact of climate change corporate and military leaders see nothing but opportunities For them melting ice caps mean newly accessible fossil fuels borders to be secured from climate refugees social conflicts to be managed and more failed states in which to intervene They are securing their assets at the expense of the planet and its inhabitants The Secure and the Dispossessed looks at these deadly approaches with a critical eye It also considers the flip side that the legitimacy of the elite is under unprecedented pressure from resistance by communities to resource grabs to those creating new ecological and socially just models for managing our energy food and water Topics covered include geoengineering militarism refugee protection greenwashing and the agricultural crisis among others Adaptation and resilience to a climate changed world is desperately needed but the form it will take will affect all of our futures **Force**

Multiplying Technologies for Logistics Support to Military Operations National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Force Multiplying Technologies for Logistics Support to Military Operations, 2014-12-15 The mission of the United States Army is to fight and win our nation's wars by providing prompt sustained land dominance across the full range of military operations and spectrum of conflict in support of combatant commanders Accomplishing this mission rests on the ability of the Army to equip and move its forces to the battle and sustain them while they are engaged Logistics provides the backbone for Army combat operations Without fuel ammunition rations and other supplies the Army would grind to a halt The U S military must be prepared to fight anywhere on the globe and in an era of coalition warfare to logistically support its allies While aircraft can move large amounts of supplies the vast majority must be carried on ocean going vessels and unloaded at ports that may be at a great distance from the battlefield As the wars in Afghanistan and Iraq have shown the costs of convoying vast quantities of supplies is tallied not only in economic terms but also in terms of lives lost in the movement of the materiel As the ability of potential enemies to interdict movement to the battlefield and interdict movements in the battlespace increases the challenge of logistics grows even larger No matter how the nature of battle develops logistics will remain a key factor Force Multiplying Technologies for Logistics Support to Military Operations explores Army logistics in a global complex environment that includes the increasing use of antiaccess and area denial tactics and technologies by potential adversaries This report describes new technologies and systems that would reduce the demand for logistics and meet the demand at the point of need make maintenance more efficient improve inter and intratheater mobility and improve near real time in transit visibility Force Multiplying Technologies also explores options for the Army to operate with the other services and improve its support of Special Operations Forces This report provides a logistics centric research and development investment strategy and illustrative examples of how improved logistics could look in the future **Decision Making and Knowledge Decision Support**

Systems Anna Maria Gil-Lafuente, Constantin Zopounidis, 2014-12-01 This book presents recent advancements of research new methods and techniques applications and projects in decision making and decision support systems It explores expert systems and neural networks knowledge engineering and management fuzzy sets and systems and computational methods for optimization data analysis and decision making It presents applications in Economics Finance Management and Engineering The book undertakes to stimulate scientific exchange ideas and experiences in the field of decision making in Economy and Management Researchers and practitioners alike will benefit from this book when they are dealing with imprecision vagueness and uncertainty in the context of decision making **Bulk Collection of Signals Intelligence** National Research Council, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Committee on Responding to Section 5(d) of Presidential Policy Directive 28: The Feasibility of Software to Provide Alternatives to Bulk Signals Intelligence Collection, 2015-03-24 The Bulk Collection of Signals Intelligence Technical Options study is a result of an activity called for in Presidential Policy Directive 28 PPD 28 issued by President Obama in January 2014 to evaluate U S signals intelligence practices The directive instructed the Office of the Director of National Intelligence ODNI to produce a report within one year assessing the feasibility of creating software that would allow the intelligence community more easily to conduct targeted information acquisition rather than bulk collection ODNI asked the National Research Council NRC the operating arm of the National Academy of Sciences and National Academy of Engineering to conduct a study which began in June 2014 to assist in preparing a response to the President Over the ensuing months a committee of experts appointed by the Research Council produced the report **Vibrio ecology, pathogenesis and evolution** Rita R Colwell, Daniela Ceccarelli, 2014-10-24 Vibrios are Gram negative bacilli that occur naturally in marine estuarine and freshwater systems Some species include human and animal pathogens capable of causing gastroenteritis wound infections cholera and fatal septicemia Over the past decades cutting edge research on Vibrio genomics has promoted a tremendous advance in our knowledge of these pathogens Significant developments include the discovery of emerging epidemic clones tracking the spread of new strain variants and an intensified appreciation of the role of mobile genetic elements in antibiotic resistance spread as well as pathogenesis Furthermore improved understanding of the interaction of Vibrios with a variety of living organisms in the aquatic environment has documented the significant role of environmental reservoirs in their seasonal cycle favoring persistence of the pathogen during inter epidemic periods and enhancing disease transmission This Research Topic is dedicated to our current understanding in these areas and will bring together leading experts in the field to provide a deep overview of Vibrios ecology and evolution and will suggest the pathway of future research in this field **Carbon Capture and Storage** Ian Havercroft, Richard Macrory Hon KC, Richard Stewart, 2018-02-08 Carbon Capture and Storage CCS is increasingly viewed as one of the most significant ways of dealing with greenhouse gas emissions Critical to realising its potential will be the design of effective legal regimes at national and

international level that can handle the challenges raised but without stifling a new technology of potential great public benefit These include long term liability for storage regulation of transport the treatment of stored carbon under emissions trading regimes issues of property ownership and increasingly the sensitivities of handling the public engagement and perception Following its publication in 2011 Carbon Capture and Storage quickly became required reading for all those interested in or engaged by the need to implement regulatory approaches to CCS The intervening years have seen significant developments globally Earlier legislative models are now in force providing important lessons for future legal design Despite these developments the growth of the technology has been slower in some jurisdictions than others This timely new edition will update and critically assess these updates and provide context for the development of CCS in 2018 and beyond

Property Rights in Outer Space Matthew Johnson, 2024-05-28 This book explores the role of private mining rights in the utopian imaginary of space colonisation It presents a transdisciplinary account of the new and evolving legislative frameworks that have been established in anticipation of commercial exploitation of the mineral resources of the off world frontier Written in an engaging style the book investigates a novel case study in the history of capitalism and the commons the emergence of a nascent space mining industry undergirded by a contentious legislative framework In 2015 the US passed laws that would recognise the claims of US corporations to own and sell space resources This unilateral act of pre-emptive law making would appear to contravene the terms of the UN Outer Space Treaty 1967 which declared that the exploration and use of outer space should be for the benefit of all mankind and not subject to national appropriation Using this central dynamic between privately held mining rights and outer space as a global commons Matthew Johnson constructs an historical sociology of space mining from the deep historical roots of common and private property to the contemporary networks of neoliberalism that have engaged with the commercialisation of space activity The anticipatory expansion of private property claims beyond the Earth both resonates with and problematises the terrain of political history such as the tensions between states and markets public law and private power the commons and exclusive property The emerging cosmopolitics of off world private property mirrors and is often explicitly embedded within neoliberal geopolitics prompting urgent questions about how we can reaffirm principles of democracy and common heritage in the international laws of Earth and space This book is compelling reading for anyone interested in the social study of space law economics technology politics and property rights

International Arbitration in the Energy Sector Maxi Scherer, 2018-02-22 Disputes in the energy and natural resources sector are at the heart of international arbitration With more arbitrations arising in the international energy sector than in any other sector it is not surprising that the highest valued awards in the history of arbitration come from energy related arbitrations Energy disputes often involve complex and controversial issues relating to security sovereignty and public welfare International Arbitration in the Energy Sector puts international energy disputes into a global context providing broad coverage of different forms and systems of dispute resolution across both renewable and

non renewable sectors With contributions from leading arbitrators academics and industry experts from across the globe the twenty chapters in the book enable readers to compare the approaches to and learnings from energy arbitrations across various legal systems and geographic regions After outlining the international energy arbitration legal framework in Part I the text delves into a detailed analysis of the problems which regularly arise in practice These include among other things commercial disputes in Part II e g over the upstream oil sector and long term gas supply contracts investor state disputes in Part III e g under the Energy Charter Treaty and public international law disputes in Part IV e g concerning international boundaries and the distribution of natural resources Alongside recent developments in the international energy sector attention is given to climate and sustainable development disputes which raise important questions about enforcing sustainability objectives on individuals corporations and states Backed by analyses of arbitral awards national court and international tribunal decisions treaties and other international legal instruments as well as current events and news in the energy industry this text offers a unique contribution to international energy literature and provides insightful commentary on the prevalent issues in the field It is essential reading for any practitioner or researcher in the energy and natural resources sector

A Smarter National Surveillance System for Occupational Safety and Health in the 21st Century National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Board on Health Sciences Policy, Division of Behavioral and Social Sciences and Education, Committee on National Statistics, Division on Earth and Life Studies, Board on Agriculture and Natural Resources, Committee on Developing a Smarter National Surveillance System for Occupational Safety and Health in the 21st Century, 2018-04-27 The workplace is where 156 million working adults in the United States spend many waking hours and it has a profound influence on health and well being Although some occupations and work related activities are more hazardous than others and face higher rates of injuries illness disease and fatalities workers in all occupations face some form of work related safety and health concerns Understanding those risks to prevent injury illness or even fatal incidents is an important function of society Occupational safety and health OSH surveillance provides the data and analyses needed to understand the relationships between work and injuries and illnesses in order to improve worker safety and health and prevent work related injuries and illnesses Information about the circumstances in which workers are injured or made ill on the job and how these patterns change over time is essential to develop effective prevention programs and target future research The nation needs a robust OSH surveillance system to provide this critical information for informing policy development guiding educational and regulatory activities developing safer technologies and enabling research and prevention strategies that serves and protects all workers A Smarter National Surveillance System for Occupational Safety and Health in the 21st Century provides a comprehensive assessment of the state of OSH surveillance This report is intended to be useful to federal and state agencies that have an interest in occupational safety and health but may also be of interest broadly to employers labor unions and other worker advocacy

organizations the workers compensation insurance industry as well as state epidemiologists academic researchers and the broader public health community The recommendations address the strengths and weaknesses of the envisioned system relative to the status quo and both short and long term actions and strategies needed to bring about a progressive evolution of the current system

Environmental Security in Greece Charis (Harris) Gerosideris, 2021-11-10 Environmental Security in Greece establishes stakeholders perceptions of environmental security and energy security taking a Q methodology and Digital Media Research Framework approach In depth individual viewpoints and opinions of policymakers energy industry leaders NGOs members and the public are described throughout

But Will It Fly? Iver P. Cooper, 2025-09-17 Conventional aircraft today are propelled by the action of propellers or jets and powered by the internal combustion of petroleum fuels in piston turboprop or jet engines But other power sources powerplants and propulsion devices for airships as well as aircraft have been proposed and even experimented with over the last few centuries The power sources considered include human muscles steam batteries nuclear reactors and hydrogen fuel and the propulsion devices include sails oars flapping wings rockets and cycloidal propellers This meticulously researched book presents the history of these unconventional aerial power and propulsion systems explains the underlying science and technology behind them and assesses the crucial question of practicality

Shared Governance for Sustainable Working Landscapes Timothy M. Gieseke, 2016-08-05 Sustaining our agricultural landscapes is no longer just a technical scientific or even political problem but it has evolved into a socially complex so called wicked problem of conflicting social governance and economics This creates an extreme economic obstacle where the value of ecosystem services remains low and diffuse and the transactions costs remain high and multiple Using Uber like business platform technology and a shared governance model a symbiotic demand for environmental benefits is created Enabling multi sector transactions for environmental benefits this platform innovation would remedy the tragedy of the commons the economic nemesis to achieving landscape sustainability In a nutshell to sustain our agricultural landscapes a transdisciplinary approach supported by a shared governance model housed within a multi sided platform is needed This book introduces an assessment framework identifying governance actors styles and ratios for socio ecological systems The assessment uses a new governance compass to identify the types of actors completing which tasks and identifies the styles of governance used to complete the tasks It is aimed to anyone involved in sustainability science agricultural policy planning or integrated landscape design

Refugee Pathways to Peace Janet Mancini Billson, 2024-12-15 In Refugee Pathways to Peace Escaping the Chaos of War Janet Mancini Billson provides perspectives of Vietnamese Syrian Congolese Liberian and Ukrainian refugees and the resettlement agencies that smooth their transition into a new life context Despite welcoming refugee policies challenges arise in Canada s uniquely positive context Participants discuss how they overcome displacement and cope with the trauma of leaving home and family behind As they craft viable new lives refugees remain vulnerable to marginality and delays in economic independence Following Refugee Pathways to Freedom Billson details how refugees are

double victims of conflict and a glacially slow resettlement process and places the refugee experience into a human rights framework She offers recommendations for improving a global refugee system that is creaking as displacement escalates She calls for limiting the sojourn in refugee camps to two years to help reduce negative impacts and maximize newcomer well being She concludes that the true epidemic is conflict displacing 100 000 000 persons annually Shifting the focus toward diplomacy and peacebuilding before minor conflicts become hot spots is crucial as is streamlining refugee selection processes to reduce despair and lost years Participants make specific policy suggestions that would enhance rather than degrade refugee well being during resettlement

Technical questions and answers for job interview Offshore Oil & Gas Platforms Petrogav International Oil & Gas Training Center,2020-06-30 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 273 questions and answers for job interview and as a BONUS web addresses to 100 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry

Technical questions and answers for job interview Offshore Oil & Gas Rigs Petrogav International Oil & Gas Training Center,2020-06-29 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 273 questions and answers for job interview and as a BONUS web addresses to 218 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry

The New Natural History of Madagascar Steven M. Goodman,2022-11-15 A marvelously illustrated reference to the natural wonders of one of the most spectacular places on earth Separated from Africa s mainland for tens of millions of years Madagascar has evolved a breathtaking wealth of biodiversity becoming home to thousands of species found nowhere else on the planet The New Natural History of Madagascar provides the most comprehensive up to date synthesis available of this island nation s priceless biological treasures Now fully revised and expanded this beautifully illustrated compendium features contributions by more than 600 globally renowned experts who cover the history of scientific exploration in Madagascar as well as the island s geology and soils climate forest ecology human ecology marine and coastal ecosystems plants invertebrates fishes amphibians reptiles birds and mammals This invaluable two volume reference also includes detailed

discussions of conservation efforts in Madagascar that showcase several successful protected area programs that can serve as models for threatened ecosystems throughout the world Provides the most comprehensive overview of Madagascar s rich natural history Coedited by 18 different specialists Features hundreds of new contributions by world class experts Includes hundreds of new illustrations Covers a broad array of topics from geology and climate to animals plants and marine life Sheds light on newly discovered species and draws on the latest science An essential resource for anyone interested in Madagascar or tropical ecosystems in general from biologists and conservationists to ecotourists and armchair naturalists

Forestry and Water Conservation in South Africa Brett Bennett,Fred Kruger,2015-11-11 This innovative interdisciplinary study focuses on the history science and policy of tree planting and water conservation in South Africa South Africa s forestry sector has sat often controversially at the crossroads of policy and scientific debates regarding water conservation economic development and biodiversity protection Bennett and Kruger show how debates about the hydrological impact of exotic tree planting in South Africa shaped the development of modern scientific ideas and state policies relating to timber plantations water conservation invasive species control and biodiversity management within South Africa as well as elsewhere in the world Forestry and Water Conservation in South Africa shows how scientific research on the impact of exotic and native vegetation led to the development of a comprehensive national policy for conserving water producing timber and protecting indigenous species from invasive alien plants Policies and laws relating to forests and water began to change in the late 1980s and early 1990s as a result of political and administrative changes within South Africa This book suggests that the country s contemporary policies towards timber plantations guided by the National Water Act of 1998 need to be reconsidered in light of the authors findings Bennett and Kruger also call for more interdisciplinary research and greater emphasis on integrated policies and management plans for forestry invasive alien plants water conservation and biodiversity preservation

Presidents and Terminal Logic Behavior Genevieve M. Kehoe,2014-04-02 Presidents of nations with constitutionally imposed term limits are often viewed as growing weaker as they approach the end of their time in office However in this important new study political scientist Genevieve M Kehoe argues that because such chief executives are free from reelection constraint and often still enthusiastic to create a legacy by pursuing bold projects they may accomplish significant initiatives Kehoe has developed a concept for this which she calls Terminal Logic Behavior TLB Presidents and Terminal Logic Behavior Term Limits and Executive Action in the United States Brazil and Argentina provides both case studies and quantitative evidence to show how US presidents of the last three decades have utilized decrees on foreign domestic and environment policy during their final months in office She finds a systematic pattern of decree use consistent with the mark of TLB in a most unexpected place presidents use of national emergency powers In a careful comparative analysis she also finds support for her argument in the Argentinean and Brazilian experience of the same period

Forging a Socio-Legal Approach to Environmental Harms Tiffany Bergin,Emanuela Orlando,2017-06-14

Environmental harms exert a significant toll and pose substantial economic costs on societies around the world. Although such harms have been studied from both legal and social science perspectives, these disciplinary specific approaches are not on their own fully able to address the complexity of these environmental challenges. Many legal approaches, for example, are limited by their inattention to the motivations behind environmental offences, whereas many social science approaches are hindered by an insufficient grounding in current legislative frameworks. This edited collection constitutes a pioneering attempt to overcome these limitations by uniting legal and social science perspectives. Together, the book's contributors forge an innovative socio-legal approach to more effectively respond to and to prevent environmental harms around the world. Integrating theoretical and empirical work, the book presents carefully selected illustrations of how legal and social science scholarship can be brought together to improve policies. The various chapters examine how a socio-legal approach can ultimately lead to a more comprehensive understanding of environmental harms as well as to innovative and effective responses to such environmental offences.

The Vortex Frank Uekötter, 2024-04-18

Environmental challenges are defining the twenty-first century. To fully understand ongoing debates about our current crises—climate change, loss of biological diversity, pollution, extinction, resource woes—means revisiting their origins in all their complexity. With this ambitious, highly original contribution to the environmental history of global modernity, Frank Uekötter considers the many ways humans have had an impact on their physical environment throughout history. Ours is not a one-way trajectory to sudden collapse, he argues, but rather death by a thousand cuts. The many paths we've forged to arrive in our current predicament, from agriculture to industry to infrastructure, must be considered collectively if we are to stay afloat in what Uekötter describes as a vortex, a powerful metaphor for the flow of history capturing the momentum and the many crosscurrents that swept people and environments along. His book invites us to look at environmental challenges from multiple perspectives, including all the twists and turns that have helped to create the mess we find ourselves in. Uekötter has written a world history for an age where things are falling apart, where we know what lies ahead and are equipped with the right tools, technological and otherwise, and plenty of experience to deal with environmental challenges but somehow fail to get our affairs in order.

Physical Science Paper1 November 2013 Memorandum Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Physical Science Paper1 November 2013 Memorandum**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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