

PAST YEAR PAPERS
NATIONAL SENIOR CERTIFICATE (NSC)
CAPS
GRADE 12
PHYSICAL SCIENCES: PAPER 1
QUESTION PAPERS

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- 2021 MAY/JUNE
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Physical Science Paper 2013 Memorandum

Karin Nielsen-Saines



Physical Science Paper 2013 Memorandum:

This Changes Everything Naomi Klein, 2014-09-16 The most important book yet from the author of the international bestseller *The Shock Doctrine* a brilliant explanation of why the climate crisis challenges us to abandon the core free market ideology of our time restructure the global economy and remake our political systems In short either we embrace radical change ourselves or radical changes will be visited upon our physical world The status quo is no longer an option In *This Changes Everything* Naomi Klein argues that climate change isn't just another issue to be neatly filed between taxes and health care It's an alarm that calls us to fix an economic system that is already failing us in many ways Klein meticulously builds the case for how massively reducing our greenhouse emissions is our best chance to simultaneously reduce gaping inequalities reimagine our broken democracies and rebuild our gutted local economies She exposes the ideological desperation of the climate change deniers the messianic delusions of the would-be geoengineers and the tragic defeatism of too many mainstream green initiatives And she demonstrates precisely why the market has not and cannot fix the climate crisis but will instead make things worse with ever more extreme and ecologically damaging extraction methods accompanied by rampant disaster capitalism Klein argues that the changes to our relationship with nature and one another that are required to respond to the climate crisis humanely should not be viewed as grim penance but rather as a kind of gift a catalyst to transform broken economic and cultural priorities and to heal long festering historical wounds And she documents the inspiring movements that have already begun this process communities that are not just refusing to be sites of further fossil fuel extraction but are building the next regeneration based economies right now Can we pull off these changes in time Nothing is certain Nothing except that climate change changes everything And for a very brief time the nature of that change is still up to us

Indigenous Peoples' Governance of Land and Protected Territories in the Arctic Thora Martina Herrmann, Thibault Martin, 2015-12-22 This book addresses critical questions and analyses key issues regarding Indigenous Aboriginal Peoples and governance of land and protected areas in the Arctic It brings together contributions from scientists indigenous and non indigenous researchers local leaders and members of the policy community that document Indigenous Aboriginal approaches to governance of land and protected areas at the local regional and international level explore new territorial governance models that are emerging as part of the Indigenous Aboriginal governance within Arctic States provinces territories and regions analyse the recognition or lack thereof concerning indigenous rights to self determination in the Arctic and examine how traditional decision making arrangements and practices can be linked with governments in the process of good governance The book highlights essential lessons learned success stories and remaining issues all of which are useful to address issues of Arctic governance of land and protected areas today and which could also be relevant for future governance arrangements

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 *A History of Scientific Journals* Aileen Fyfe, Noah

Moxham, Julie McDougall-Waters, Camilla Mørk Røstvik, 2022-10-03 Modern scientific research has changed so much since Isaac Newton's day it is more professional collaborative and international with more complicated equipment and a more diverse community of researchers Yet the use of scientific journals to report share and store results is a thread that runs through the history of science from Newton's day to ours Scientific journals are now central to academic research and careers Their editorial and peer review processes act as a check on new claims and findings and researchers build their careers on the list of journal articles they have published The journal that reported Newton's optical experiments still exists First published in 1665 and now fully digital the Philosophical Transactions has carried papers by Charles Darwin Dorothy Hodgkin and Stephen Hawking It is now one of eleven journals published by the Royal Society of London Unrivalled insights from the Royal Society's comprehensive archives have enabled the authors to investigate more than 350 years of scientific journal publishing The editorial management business practices and financial difficulties of the Philosophical Transactions and its sibling Proceedings reveal the meaning and purpose of journals in a changing scientific community At a time when we are surrounded by calls to reform the academic publishing system it has never been more urgent that we understand its history **Convergence** National Research Council, Division on Earth and Life Studies, Board on Life Sciences, Committee on Key Challenge Areas for Convergence and Health, 2014-06-16 Convergence of the life sciences with fields including physical chemical mathematical computational engineering and social sciences is a key strategy to tackle complex challenges and achieve new and innovative solutions However institutions face a lack of guidance on how to establish effective programs what challenges they are likely to encounter and what strategies other organizations have used to address the issues that arise This advice is needed to harness the excitement generated by the concept of convergence and channel it into the policies structures and networks that will enable it to realize its goals Convergence investigates examples of organizations that have established mechanisms to support convergent research This report discusses details of current programs how organizations have chosen to measure success and what has worked and not worked in varied settings The report summarizes the lessons learned and provides organizations with strategies to tackle practical needs and implementation

challenges in areas such as infrastructure student education and training faculty advancement and inter institutional partnerships

Coastal Risk: Shores and Deltas in Peril Clara Armaroli, Derek W. T. Jackson, Denise Reed, Christophe Viavattene, 2020-01-30 The interaction between land and sea is controlled by a number of processes that are in general driven by the equilibrium between environmental forcing components e g hydrodynamic waves currents surges atmospheric e g winds and terrestrial e g catchment land cover and sediment dynamics In the context of the Anthropocene epoch the equilibrium in many coastal regions is now often altered by the influence of human activities Successive human activities globally influence indirectly these forcing components helping magnify the negative impact of extreme meteorological events and sea level rise Directly human activity can also influence a number of processes at a local scale within and between the catchment the sea and the coast For example misplaced engineered infrastructure inside these naturally dynamic environments can accentuate disequilibrium destabilizing shores and deltas Development in catchments can promote rapid runoff inducing sometimes dramatic effects on downstream urbanized areas the socio economy as well as on coastal resources and ecosystems This Research Topic aims to assemble research and review papers that focus on the dynamics of shores and deltas in peril under present conditions as well as in the future context of sea level rise climate change and adaptation strategies under various scenarios

Training Students to Extract Value from Big Data National Research Council, Division on Engineering and Physical Sciences, Board on Mathematical Sciences and Their Applications, Committee on Applied and Theoretical Statistics, 2015-01-16 As the availability of high throughput data collection technologies such as information sensing mobile devices remote sensing internet log records and wireless sensor networks has grown science engineering and business have rapidly transitioned from striving to develop information from scant data to a situation in which the challenge is now that the amount of information exceeds a human s ability to examine let alone absorb it Data sets are increasingly complex and this potentially increases the problems associated with such concerns as missing information and other quality concerns data heterogeneity and differing data formats The nation s ability to make use of data depends heavily on the availability of a workforce that is properly trained and ready to tackle high need areas Training students to be capable in exploiting big data requires experience with statistical analysis machine learning and computational infrastructure that permits the real problems associated with massive data to be revealed and ultimately addressed Analysis of big data requires cross disciplinary skills including the ability to make modeling decisions while balancing trade offs between optimization and approximation all while being attentive to useful metrics and system robustness To develop those skills in students it is important to identify whom to teach that is the educational background experience and characteristics of a prospective data science student what to teach that is the technical and practical content that should be taught to the student and how to teach that is the structure and organization of a data science program Training Students to Extract Value from Big Data summarizes a workshop convened in April 2014 by the National Research Council s Committee on Applied and

Theoretical Statistics to explore how best to train students to use big data The workshop explored the need for training and curricula and coursework that should be included One impetus for the workshop was the current fragmented view of what is meant by analysis of big data data analytics or data science New graduate programs are introduced regularly and they have their own notions of what is meant by those terms and most important of what students need to know to be proficient in data intensive work This report provides a variety of perspectives about those elements and about their integration into courses and curricula

The UFO Phenomenon Robert Davis, 2015-02-28 A comprehensive perspective of evidence and future directions associated with the UFO phenomenon Includes review and analysis of studies evidence theories and research needs involving UFO topics Extensive scientific endnotes

Biofuels for Aviation Christopher Chuck, 2016-06-02 Biofuels for Aviation Feedstocks Technology and Implementation presents the issues surrounding the research and use of biofuels for aviation such as policy markets certification and performance requirements life cycle assessment and the economic and technical barriers to their full implementation Readers involved in bioenergy and aviation sectors research planning or policy making activities will benefit from this thorough overview The aviation industry's commitment to reducing GHG emissions along with increasing oil prices have sparked the need for renewable and affordable energy sources tailored to this sector's very specific needs As jet engines cannot be readily electrified turning to biofuels is the most viable option However aviation is a type of transportation for which traditional biofuels such as bioethanol and biodiesel do not fulfill key fuel requirements Therefore different solutions to this situation are being researched and tested around the globe which makes navigating this scenario particularly challenging This book guides readers through this intricate subject bringing them up to speed with its current status and future prospects both from the academic and the industry point of view Science and technology chapters delve into the technical aspects of the currently tested and the most promising technology in development as well as their respective feedstocks and the use of additives as a way of adapting them to meet certain specifications Conversion processes such as hydrotreatment synthetic biology pyrolysis hydrothermal liquefaction and Fisher Tropsch are explored and their results are assessed for current and future viability Presents the current status of biofuels for the aviation sector including technologies that are currently in use and the most promising future technologies their production processes and viability Explains the requirements for certification and performance of aviation fuels and how that can be achieved by biofuels Explores the economic and policy issues as well as life cycle assessment a comparative techno economic analysis of promising technologies and a roadmap to the future Explores conversion processes such as hydrotreatment synthetic biology pyrolysis hydrothermal liquefaction and Fisher Tropsch

Seasonal to Decadal Prediction of Marine Ecosystems: Opportunities, Approaches, and Applications Mark R. Payne, Alistair J. Hobday, Brian R. MacKenzie, Desiree Tommasi, 2019-06-28 Tremendous advances in oceanographic observing and modeling systems over the last decade have led to unprecedented developments in the nature of information available to marine science While improvements in

observational technologies and networks have garnered much attention remarkable developments in forecasting the ocean have received much less focus Exploiting this new predictive skill to improve scientific understanding generate advice and aid in the management of marine resources is emerging as one of the new challenges of marine science Translating predictions of the physical environment into biological outcomes however is not straightforward Fisheries scientists for example have been trying to understand the links between physics and biology and generate predictions of variables such as recruitment for close to a century with limited success Nevertheless spatial distributions and the timing of key events which have received less focus are often tightly linked to the physical environment and may have management relevant applications The first such forecasts based on this skill are now starting to emerge This Frontiers in Marine Science Research Topic provides a snapshot of the state of the art in Marine Ecological Prediction It covers the opportunities for developing such forecasts technical approaches that could be employed and examples where the technology is already being applied This body of work therefore marks an important milestone on the route to developing this new and exciting field of marine science

Speaking Truth to Power Ginsberg, Benjamin, Paschall, Collin, 2022-09-06 Truth and power have a difficult relationship Decision makers are often required to make judgements that depend upon specialized knowledge and thus reluctantly surrender power They are apt to reject advice inconsistent with their perceived interests experiences and cognitive capacities Speaking Truth to Power aims to guide the reader through the tangled relationship between truth and power manifesting as the interplay between experts and decision makers in society

Engineering Vulnerability Sarah E. Vaughn, 2022-02-07 In *Engineering Vulnerability* Sarah E Vaughn examines climate adaptation against the backdrop of ongoing processes of settler colonialism and the global climate change initiatives that seek to intervene in the lives of the world's most vulnerable Her case study is Guyana in the aftermath of the 2005 catastrophic flooding that ravaged the country's Atlantic coastal plain The country's ensuing engineering projects reveal the contingencies of climate adaptation and the capacity of flooding to shape Guyanese expectations about racial inequality Analyzing the coproduction of race and vulnerability Vaughn details why climate adaptation has implications for how we understand the past and the continued human settlement of a place Such understandings become particularly apparent not only through experts and ordinary citizens disputes over resources but in their attention to the ethical practice of technoscience over time Approaching climate adaptation this way Vaughn exposes the generative openings as well as gaps in racial thinking for theorizing climate action environmental justice and more broadly future life on a warming planet Duke University Press Scholars of Color First Book Award recipient

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 conveying 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

The Budget of the United States Government United States. Office of Management and Budget,2015 *Past Reconstruction of the Physical and*

Biogeochemical Ocean State Simona Masina,François Counillon,Marilaure Gregoire,Andrea Storto,Hiroyuki

Tsujino,2022-08-04 Digitizing Production Systems Numan M. Durakbasa,M. Güneş Gençyılmaz,2021-11-10 This book

contains selected papers from International Symposium for Production Research 2021 held on October 7 9 2021 online Turkey The book reports recent advances in production engineering and operations It explores topics including production research production management operations management industry 4 0 industrial engineering mechanical engineering engineering management and operational research Presenting real life applications case studies and mathematical models this book is of interest to researchers academics and practitioners in the field of production and operation engineering It provides both the results of recent research and practical solutions to real world problems

Robust Methods for the Analysis of Images and Videos for Fisheries Stock Assessment National Research Council,Division on Engineering and

Physical Sciences,Board on Mathematical Sciences and Their Applications,Committee on Applied and Theoretical

Statistics,2015-02-24 The National Marine Fisheries Service NMFS is responsible for the stewardship of the nation s living marine resources and their habitat As part of this charge NMFS conducts stock assessments of the abundance and composition of fish stocks in several bodies of water At present stock assessments rely heavily on human data gathering and

analysis Automatic means of fish stock assessments are appealing because they offer the potential to improve efficiency and reduce human workload and perhaps develop higher fidelity measurements The use of images and video when accompanied by appropriate statistical analyses of the inferred data is of increasing importance for estimating the abundance of species and their age distributions Robust Methods for the Analysis of Images and Videos for Fisheries Stock Assessment is the summary of a workshop convened by the National Research Council Committee on Applied and Theoretical Statistics to discuss analysis techniques for images and videos for fisheries stock assessment Experts from diverse communities shared perspective about the most efficient path toward improved automation of visual information and discussed both near term and long term goals that can be achieved through research and development efforts This report is a record of the presentations and discussions of this event

Where Have All the Democrats Gone? Ruy Teixeira, John B. Judis, 2023-11-07 A Wall Street Journal Best Political Book of 2023 A much needed wake up call for the Democrats which reveals how the party has lost sight of its core principles and endangered its political future from the authors of one of the most influential political books of the 21st century The New York Times For decades American politics has been plagued by a breakdown between the Democratic and Republican parties in which victory has inevitably led to defeat and vice versa Both parties have lost sight of the people at the center of the American electorate leading to polarization and paralysis In *Where Have All the Democrats Gone* John B Judis and Ruy Teixeira reveal the tectonic changes shaping the country's current political landscape that both pundits and political scientists have missed The Democratic Party once the preserve of small towns as well as big cities and of the industrial working class and the newly immigrated has abandoned and even actively alienated many of these voters In this clarion call and essential argument for common sense and common ground Judis and Teixeira reveal the transformation of American politics and provide a razor sharp critique of where the Democrats have gone awry and how they can avoid political disaster in the days ahead

Beyond Control James F. Barnett Jr., 2017-03-16 *Beyond Control* reveals the Mississippi as a waterway of change unnaturally confined by ever larger levees and control structures During the great flood of 1973 the current scoured a hole beneath the main structure near Baton Rouge and enlarged a pre-existing football field size crater That night the Mississippi River nearly changed its course for a shorter and steeper path to the sea Such a map changing reconfiguration of the country's largest river would bear national significance as well as disastrous consequences for New Orleans and towns like Morgan City at the mouth of the Atchafalaya River Since 1973 the US Army Corps of Engineers Control Complex at Old River has kept the Mississippi from jumping out of its historic channel and plunging through the Atchafalaya Basin to the Gulf of Mexico *Beyond Control* traces the history of this phenomenon beginning with a major channel shift around 3 000 years ago By the time European colonists began to explore the Lower Mississippi Valley a unique confluence of waterways had formed where the Red River joined the Mississippi and the Atchafalaya River flowed out into the Atchafalaya Basin A series of human alterations to this potentially volatile web of rivers starting with a bend cutoff in

1831 by Captain Henry Miller Shreve set the forces in motion for the Mississippi's move into the Atchafalaya Basin. Told against the backdrop of the Lower Mississippi River's impending diversion, the book's chapters chronicle historic floods, rising flood crests, a changing strategy for flood protection, and competing interests in the management of the Old River outlet. Beyond Control is both a history and a close look at an inexorable living process happening now in the twenty-first century.

Review of Department of Defense Test Protocols for Combat Helmets National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Review of Test Protocols Used by the DoD to Test Combat Helmets, 2014-03-31. Combat helmets have evolved considerably over the years from those used in World War I to today's Advanced Combat Helmet. One of the key advances was the development of aramid fibers in the 1960s, which led to today's Kevlar-based helmets. The Department of Defense is continuing to invest in research to improve helmet performance through better design and materials as well as better manufacturing processes. Review of the Department of Defense Test Protocols for Combat Helmets considers the technical issues relating to test protocols for military combat helmets. At the request of the DOD Director of Operational Test and Evaluation, this report evaluates the adequacy of the Advanced Combat Helmet test protocol for both first-article testing and lot acceptance testing, including its use of the metrics of probability of no penetration and the upper tolerance limit used to evaluate backface deformation. The report evaluates appropriate use of statistical techniques in gathering data, adequacy of current helmet testing procedures, procedures for the conduct of additional analysis of penetration and backface deformation data, and scope of characterization testing relative to the benefit of the information obtained.

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