

# **Physical Sciences**

***November***

**EXAM PAPERS**

# Physical Sciences Paper 1 November 2013 Memorandum

**Damien Van Puyvelde, Aaron F. Brantly**



## **Physical Sciences Paper 1 November 2013 Memorandum:**

**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 *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

**Rapid Excavation and Tunneling Conference 2013 Proceedings** Michael A. DiPonio, Chris Dixon, 2013 Annotation Every two years industry leaders and practitioners from around the world gather at the Rapid Excavation and Tunneling Conference RETC the authoritative program for the tunneling profession This comprehensive book includes more than 100 papers from industry experts highlighting their most recent projects and sharing real world experiences that will keep you up to date on the latest tunneling trends and technologies 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

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

**Tunnel Visions** Michael Riordan, Lilian Hoddeson, Arienne W. Kolb, 2015-11-20 A detailed and engaging account of the development of the superconducting supercollider one of the largest scientific undertakings in the United States Journal of American History Starting in the 1950s US physicists dominated the search for elementary particles aided by the association of this research with national security they held this position for decades In an effort to maintain their hegemony and track down the elusive Higgs boson they convinced President Reagan and Congress to support construction of the multibillion dollar Superconducting Super Collider project in Texas the largest basic science project ever attempted But after the Cold War ended and the estimated SSC cost surpassed ten billion dollars Congress terminated the project in October 1993 Drawing on extensive archival research contemporaneous press accounts and over one hundred interviews with scientists engineers government officials and others involved Tunnel Visions tells the riveting story of the aborted SSC project The authors examine the complex interrelated causes for its demise including problems of large project management continuing cost overruns and lack of foreign contributions In doing so they ask whether Big Science has become too large and expensive including whether academic scientists and their government overseers can effectively manage such an enormous undertaking Focusing on the scientific technical and political conflicts that led to delays ever rising costs and eventually the SSC's cancellation by Congress Tunnel Visions is a true techno thriller Burton Richter winner of the Nobel Prize in Physics Most good science stories are tales of discovery and success but failure can be just as riveting Here two historians and an archivist describe the greatest particle physics experiment that never was Scientific American

**Formality of the Little  $\mathbb{A}_1$ -disks Operad** Pascal Lambrechts, Ismar Volić, 2014-06-05 The little disks operad along with its variants is an important tool in homotopy theory It is defined in terms of configurations of disjoint dimensional disks inside the standard unit disk in  $\mathbb{C}$  and it was initially conceived for detecting and understanding fold loop spaces Its many uses now stretch across a variety of disciplines including topology algebra and mathematical physics In this paper the authors develop the details of Kontsevich's proof of the formality of little disks operad over the field of real numbers More precisely one can consider the singular chains on as well as the singular homology of These two objects are operads in the category of chain complexes The formality then states that there is a zig zag of quasi isomorphisms connecting these two operads The formality also in some sense holds in the category of commutative differential graded algebras The authors additionally prove a relative version of the formality for the inclusion of the little disks operad in the little disks operad when

**The Mathematics of Secrets** Joshua Holden, 2018-10-02 Explaining the mathematics of cryptography The Mathematics of Secrets takes readers on a fascinating tour of the mathematics behind cryptography the science of sending secret messages Using a wide range of historical anecdotes and real world examples Joshua Holden shows how mathematical principles underpin the ways that different codes and ciphers work He focuses on both code making and code breaking and

discusses most of the ancient and modern ciphers that are currently known He begins by looking at substitution ciphers and then discusses how to introduce flexibility and additional notation Holden goes on to explore polyalphabetic substitution ciphers transposition ciphers connections between ciphers and computer encryption stream ciphers public key ciphers and ciphers involving exponentiation He concludes by looking at the future of ciphers and where cryptography might be headed The Mathematics of Secrets reveals the mathematics working stealthily in the science of coded messages A blog describing new developments and historical discoveries in cryptography related to the material in this book is accessible at <http://press.princeton.edu/titles/10826.html>

**Cybersecurity** Damien Van Puyvelde, Aaron F. Brantly, 2024-09-27 In the last decade the proliferation of billions of new Internet enabled devices and users has significantly expanded concerns about cybersecurity How much should we worry about cyber threats and their impact on our lives society and international affairs Are these security concerns real exaggerated or just poorly understood In this fully revised and updated second edition of their popular text Damien Van Puyvelde and Aaron F Brantly provide a cutting edge introduction to the key concepts controversies and policy debates in cybersecurity today Exploring the interactions of individuals groups and states in cyberspace and the integrated security risks to which these give rise they examine cyberspace as a complex socio technical economic domain that fosters both great potential and peril Across its ten chapters the book explores the complexities and challenges of cybersecurity using new case studies such as NotPetya and Colonial Pipeline to highlight the evolution of attacks that can exploit and damage individual systems and critical infrastructures This edition also includes reader s guides and active learning exercises in addition to questions for group discussion Cybersecurity is essential reading for anyone interested in understanding the challenges and opportunities presented by the continued expansion of cyberspace

**Food Processing** Stephanie Clark, Stephanie Jung, Buddhi Lamsal, 2014-06-03 FOOD PROCESSING Food Processing Principles and Applications Second Edition is the fully revised new edition of this best selling food technology title Advances in food processing continue to take place as food scientists and food engineers adapt to the challenges imposed by emerging pathogens environmental concerns shelf life quality and safety as well as the dietary needs and demands of humans In addition to covering food processing principles that have long been essential to food quality and safety this edition of Food Processing Principles and Applications unlike the former edition covers microbial enzyme inactivation kinetics alternative food processing technologies as well as environmental and sustainability issues currently facing the food processing industry The book is divided into two sections the first focusing on principles of food processing and handling and the second on processing technologies and applications As a hands on guide to the essential processing principles and their applications covering the theoretical and applied aspects of food processing in one accessible volume this book is a valuable tool for food industry professionals across all manufacturing sectors and serves as a relevant primary or supplemental text for students of food science

Military Review ,2015 **Professional Journal of the United States Army** ,2015 Scientists at War Sarah Bridger, 2015-04-06

Sarah Bridger examines the ethical debates that tested the U S scientific community during the Cold War and scientists contributions to military technologies and strategic policymaking from the dawning atomic age through the Strategic Defense Initiative Star Wars in the 1980s which sparked cross generational opposition among scientists     *Overcoming Barriers to Deployment of Plug-in Electric Vehicles* National Research Council,Transportation Research Board,Division on Engineering and Physical Sciences,Board on Energy and Environmental Systems,Committee on Overcoming Barriers to Electric-Vehicle Deployment,2015-06-26 In the past few years interest in plug in electric vehicles PEVs has grown Advances in battery and other technologies new federal standards for carbon dioxide emissions and fuel economy state zero emission vehicle requirements and the current administration s goal of putting millions of alternative fuel vehicles on the road have all highlighted PEVs as a transportation alternative Consumers are also beginning to recognize the advantages of PEVs over conventional vehicles such as lower operating costs smoother operation and better acceleration the ability to fuel up at home and zero tailpipe emissions when the vehicle operates solely on its battery There are however barriers to PEV deployment including the vehicle cost the short all electric driving range the long battery charging time uncertainties about battery life the few choices of vehicle models and the need for a charging infrastructure to support PEVs What should industry do to improve the performance of PEVs and make them more attractive to consumers At the request of Congress *Overcoming Barriers to Deployment of Plug in Electric Vehicles* identifies barriers to the introduction of electric vehicles and recommends ways to mitigate these barriers This report examines the characteristics and capabilities of electric vehicle technologies such as cost performance range safety and durability and assesses how these factors might create barriers to widespread deployment *Overcoming Barriers to Deployment of Plug in Electric Vehicles* provides an overview of the current status of PEVs and makes recommendations to spur the industry and increase the attractiveness of this promising technology for consumers Through consideration of consumer behaviors tax incentives business models incentive programs and infrastructure needs this book studies the state of the industry and makes recommendations to further its development and acceptance     *The Science of Armour Materials* Ian Crouch,2016-09-21 *The Science of Armour Materials* comprehensively covers the range of armor materials from steels and light alloys through glasses and ceramics to fibers textiles and protective apparel The book also discusses aspects of analytical and numerical modeling as well as laboratory based high strain rate testing and ballistic testing methodologies Each chapter is written from an international perspective including reviews of the current global literature and incorporates case studies that focus upon real life applications research outcomes and lessons learned The threat spectrum is restricted to small arms ammunition high velocity fragments and stab and spike attacks as well as blast loadings Features input from an editor who is an expert in his field Dr Ian Crouch the author of over 80 publications in his field with three patents to his name Provides systematic and comprehensive coverage of armor materials modeling and testing Offers a cross disciplinary approach that brings together expertise in materials science and defense

engineering Discusses aspects of analytical and numerical modeling as well as laboratory based high strain rate testing and ballistic testing methodologies

**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

**Climate Change** Suhaib A. Bandh, 2022-03-04 Beginning in the second half of the twentieth century the impacts of climate change have been fierce causing loss of human life and irreparable destruction to natural and man made infrastructure in many parts of the world The difference between climate change now and in the past is that of sudden and disproportionate disruption of the natural energy dynamics by the changing consumption patterns of billions of human beings who have polluted terrestrial and aquatic ecosystems The picture that emerges from the exhaustive analysis of international data drawn from the most reliable sources indicates that we have possibly gained access to the gateway of extinction and it is time that we take corrective steps immediately Global climate change is further altering our relationship with the environment modifying relatively stable climatic factors and making them uncertain unpredictable and threatening Changes in land use and an increasing demand for water resources due to climate change have affected the capacity of ecosystems to sustain food production ensure the supply of freshwater resources provide ecosystem services and promote rural multi functionality Ensuring food production does not just depend on increasing water efficiency promoting climate resilient crop production or reducing land use competition for urbanization but also on a more suitable and stable climate as the changes in climatic factors like precipitation temperature radiation evaporation and wind bring about some major shifts in global food supplies According to Special Report on Emission Scenarios SRES focused on greenhouse gas emissions projections and Representative Concentration Pathways RCPs conducted by the Intergovernmental Panel on Climate Change IPCC climate change increases the risk of simultaneous crop failures including corn rice legumes and vegetables if irrigation systems are not fully adapted to water stress situations A changing climate could have many adverse impacts on other sectors of our environment This book offers concrete up to date and appropriate study cum research material for students researchers



academicians and policymakers It will be of a greater interest to students and researchers in the field of environmental science agriculture science agronomy and sustainable development     Law, Death, and Robots Keri Grieman, 2024-10-17 Can the law keep up with AI This book examines liability and regulation for artificial intelligence causing serious physical harm both now and in the future While AI moves quickly regulation follows more slowly an increasing problem for an evolutionary fast paced emerging technology AI has the potential to save lives but in doing so will have the potential to take them as well How do we future proof law and regulation to incentivise life saving innovation as safely as possible This book details how to regulate AI in high risk civil applications for example automated vehicles and medicine addressing both liability and regulatory structure It highlights crucial liability themes for technology governance provides tools to bridge the gap between regulators and technologists examines jurisdictional approaches to AI regulation in the EU UK USA and Singapore and ultimately suggests a jurisdiction agnostic blueprint for regulation     **The Science, Technology and Application of Titanium** R. I. Jaffee, N. E. Promisel, 2013-09-24 The Science Technology and Application of Titanium contains the proceedings of an International Conference organized by the Institute of Metals The Metallurgical Society of AIME and the American Society for Metals in association with the Japan Institute of Metals and the Academy of Sciences of the USSR and held at the Royal Festival Hall in London on May 21 24 1968 The papers explore scientific and technological developments as well as applications of titanium and cover topics ranging from processing of titanium to its chemical and environmental behavior physics thermodynamics and kinetics Deformation and fracture phase transformations and heat treatment and alloying are also discussed This book is comprised of 114 chapters and begins with an overview of the titanium industry in Europe and the United States The reader is then introduced to primary and secondary fabrication of titanium corrosion and oxidation physical properties of titanium alloys interaction of titanium with elements of the periodic system and elastic interactions between dislocations and twin and grain boundaries in titanium The crystallography of deformation twinning in titanium is also examined along with superplasticity and transformation plasticity in titanium The remaining chapters focus on interstitial strengthening of titanium alloys mechanism of martensitic transformation in titanium and its alloys phase relationships in titanium oxygen alloys strengthening of titanium alloys by shock deformation and titanium hot forming This monograph will be of interest to chemists and metallurgists

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section learning objectives by the end of this section you will be able to do the following describe the structure and forces present within the nucleus explain the three types of radiation write nuclear equations associated with the various types of radioactive decay

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aug 28 2023 radioactivity property exhibited by certain types of matter of emitting energy and subatomic particles

spontaneously it is in essence an attribute of individual atomic nuclei radioactive decay is a property of several naturally occurring elements as well as of artificially produced isotopes of the elements

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notes 323 nuclei and radioactivity physics module 7 atoms and nuclei z explain the growth and decay of radioactivity in a sample z calculate the half life and decay constant of a radioactive substance and z explain the uses of radioactivity in various fields 26 1 the atomic nucleus soon after the discovery of nucleus in an atom by rutherford in 1911

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quantum physics yet even though it has only 10 15 of the volume of the atom the nucleus contains more than 99 9 of the mass of the atom the nucleus is very small but very massive that was not predicted try to imagine the surprise and disbelief of scientists in 1911 when ernest rutherford discovered this incredible fact

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concepts essentials of nuclear physics table of isotopes fundamental nuclear models liquid drop shell model concept of radioactive decay radioactive decay modes  $\alpha$   $\beta$   $\gamma$  and internal conversion and fission excited states in nuclei electromagnetic transitions angular correlations and polarisation

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discusses the discovery of the atom and its parts the development of nuclear fission in laboratories and how nuclear fission can be and has been used for symmetries in atomic nuclei alejandro frank 2008 12 18 symmetries in atomic nuclei aims to present an overview of recent applications of symmetry to the description of atomic nuclei

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over 3 000 different kinds of atomic nuclei have been discovered in elements that span the periodic table yet each one has unique properties some may exist forever others transform within a fraction of a second some can power satellites as they travel to the outer reaches of the solar system others have special properties that allow them to treat different forms of cancer

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radioactivity some nuclides have an atomic nucleus that decays spontaneously without any external influence known as radionuclides they transform themselves into other nuclei ionising radiation is emitted during this process this is known as radioactivity

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it some future development of atomic theory perhaps a modification of the thomson model would most likely yield a causal explanation of radioactivity in terms of the internal structure of the atom



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nuclear physics is the field of physics that studies atomic nuclei and their constituents and interactions in addition to the study of other forms of nuclear matter nuclear physics should not be confused with atomic physics which studies the atom as a whole including its electrons

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