

# **Physical Sciences**

***November***

**EXAM PAPERS**

# Physical Science Memorandum Paper 1 November 2014

**Chris Wiggins, Matthew L. Jones**



## **Physical Science Memorandum Paper 1 November 2014:**

The War Report Annyssa Bellal, 2015-12-10 This War Report provides detailed information on every armed conflict which took place during 2014 offering an unprecedented overview of the nature range and impact of these conflicts and the legal issues they created In Part I the Report describes its criteria for the identification and classification of armed conflicts under international law and the legal consequences that flow from this classification It sets out a list of armed conflicts in 2014 categorising each as international non international or a military occupation with estimates of civilian and military casualties In Part II each of these conflicts are examined in more detail with an overview of the belligerents means and methods of warfare the applicable treaties and rules and any prosecutions for investigations into or robust allegations of war crimes Part III of the Report provides detailed thematic analysis of key legal developments which arose in the context of these conflicts allowing for a more in depth reflection on cross cutting questions and controversies The Report gives a full and accessible overview of armed conflicts in 2014 It should be the first port of call for everyone working in the field

The History of the Study of Landforms or the Development of Geomorphology, Volume 5 T.P. Burt, A.S. Goudie, H.A. Viles, 2022-10-20 Co published with British Society for Geomorphology This volume is the fifth in the definitive series The History of the Study of Landforms or the Development of Geomorphology Volume 1 1964 dealt with contributions to the field up to 1890 Volume 2 1973 with the concepts and contributions of William Morris Davis and Volume 3 1991 covered historical and regional themes during the classic period of geomorphology 1890 1950 Volume 4 2008 concentrated on studies of geomorphological processes and Quaternary geomorphology between 1890 and 1965 by the end of this period process based studies had become dominant Volume 5 builds on this platform covering in detail the revolutionary changes in approach that characterized the study of geomorphology in the second half of the twentieth century It is divided into three sections the first deals with changes in approach and method the second with changes in ideas and the broader scientific context within which geomorphology is studied and the final section details advances in research on processes and landforms The volume s objective is to describe and analyse many of the developments that provide a foundation for the rich and varied subject matter of twenty first century geomorphology

**A Homology Theory for Smale Spaces** Ian F. Putnam, 2014-09-29 The author develops a homology theory for Smale spaces which include the basics sets for an Axiom A diffeomorphism It is based on two ingredients The first is an improved version of Bowen s result that every such system is the image of a shift of finite type under a finite to one factor map The second is Krieger s dimension group invariant for shifts of finite type He proves a Lefschetz formula which relates the number of periodic points of the system for a given period to trace data from the action of the dynamics on the homology groups The existence of such a theory was proposed by Bowen in the 1970s

*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

Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions National Academies of Sciences, Engineering, and Medicine,Division on Engineering and Physical Sciences,Board on Mathematical Sciences and Their Applications,Committee on Applied and Theoretical Statistics,Committee on Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions,2017-02-06 The Office of the Under Secretary of Defense Personnel Readiness referred to throughout this report as P R is responsible for the total force management of all Department of Defense DoD components including the recruitment readiness and retention of personnel Its work and policies are supported by a number of organizations both within DoD including the Defense Manpower Data Center DMDC and externally including the federally funded research and development centers FFRDCs that work for DoD P R must be able to answer questions for the Secretary of Defense such as how to recruit people with an aptitude for and interest in various specialties and along particular career tracks and how to assess on an ongoing basis service members career satisfaction and their ability to meet new challenges P R must also address larger scale questions such as how the current realignment of forces to the Asia Pacific area and other regions will affect recruitment readiness and retention While DoD makes use of large scale data and mathematical analysis in intelligence surveillance reconnaissance and elsewhere exploiting techniques such as complex network analysis machine learning streaming social media analysis and anomaly detection these skills and capabilities have not been applied as well to the personnel and readiness enterprise Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions offers and roadmap and implementation plan for the integration of data analysis in support of decisions within the purview of P R

Freedom's Laboratory Audra J. Wolfe,2020-08-04 The Cold War ended long ago but the language of science and freedom continues to shape public debates over the relationship between science and politics in the United States Scientists like to proclaim that science knows no borders Scientific researchers follow the evidence where it leads their conclusions free of prejudice or ideology But is that really the case In Freedom s Laboratory Audra J Wolfe shows how these ideas were tested to their limits in the high stakes propaganda battles of the Cold War Wolfe examines the role that scientists in concert with administrators and policymakers played in American

cultural diplomacy after World War II During this period the engines of US propaganda promoted a vision of science that highlighted empiricism objectivity a commitment to pure research and internationalism Working both overtly and covertly wittingly and unwittingly with governmental and private organizations scientists attempted to decide what exactly they meant when they referred to scientific freedom or the US ideology More frequently however they defined American science merely as the opposite of Communist science Uncovering many startling episodes of the close relationship between the US government and private scientific groups Freedom s Laboratory is the first work to explore science s link to US propaganda and psychological warfare campaigns during the Cold War Closing in the present day with a discussion of the 2017 March for Science and the prospects for science and science diplomacy in the Trump era the book demonstrates the continued hold of Cold War thinking on ideas about science and politics in the United States *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 **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 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

On Non-Generic Finite Subgroups of Exceptional Algebraic Groups Alastair J. Litterick, 2018-05-29 The study of finite subgroups of a simple algebraic group  $G$  reduces in a sense to those which are almost simple If an almost simple subgroup of  $G$  has a socle which is not isomorphic to a group of Lie type in the underlying characteristic of  $G$  then the subgroup is called non generic This paper considers non generic subgroups of simple algebraic groups of exceptional type in arbitrary characteristic

*Florida Springs* Christopher F. Meindl, 2024-10-15 This book provides a clear and comprehensive overview of the geography history science and politics of Florida's freshwater springs informing readers about the deep past and current issues facing these natural wonders of the state

Technological Innovation in Legacy Sectors William B. Bonvillian, Charles Weiss, 2015-08-18 The American economy faces two deep problems expanding innovation and raising the rate of quality job creation Both have roots in a neglected problem the resistance of Legacy economic sectors to innovation While the U S has focused its policies on breakthrough innovations to create new economic frontiers like information technology and biotechnology most of its economy is locked into Legacy sectors defended by technological economic political social paradigms that block competition from disruptive innovations that could challenge their models Americans like to build

technology covered wagons and take them out west to open new innovation frontiers we don't head our wagons back east to bring innovation to our Legacy sectors. By failing to do so, the economy misses a major opportunity for innovation which is the bedrock of U.S. competitiveness and its standard of living. Technological Innovation in Legacy Sectors uses a new unifying conceptual framework to identify the shared features underlying structural obstacles to innovation in major Legacy sectors: energy, air, and auto transport, the electric power grid, buildings, manufacturing, agriculture, health care, delivery, and higher education, and develops approaches to understand and transform them. It finds both strengths and obstacles to innovation in the national innovation environments, a new concept that combines the innovation system and the broader innovation context for a group of Asian and European economies. Manufacturing is a major Legacy sector that presents a particular challenge because it is a critical stage in the innovation process. By increasingly offshoring production, the U.S. is losing important parts of its innovation capacity. Innovate here, produce here, where the U.S. took all the gains of its strong innovation system at every stage, is being replaced by innovate there, produce there, which threatens to lead to produce there, innovate there. To bring innovation to Legacy sectors, authors William Bonvillian and Charles Weiss recommend that policymakers focus on all stages of innovation, from research through implementation. They should fill institutional gaps in the innovation system and take measures to address structural obstacles to needed disruptive innovations. In the specific case of advanced manufacturing, the production ecosystem can be recreated to reverse jobless innovation and add manufacturing-led innovation to the U.S.'s still strong research-oriented innovation system.

**Oceanobs'19: An Ocean of Opportunity. Volume II** Tong Lee, Sabrina Speich, Laura Lorenzoni, Sanae Chiba, Frank E. Muller-Karger, Minhan Dai, Amos T. Kabo-Bah, John Siddorn, Justin Manley, Maria Snoussi, Fei Chai, 2020-12-31. This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series; they are collections of at least ten articles all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings, and historical advances in a hot research area. Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: [frontiersin.org/about/contact](mailto:frontiersin.org/about/contact).

**How Data Happened: A History from the Age of Reason to the Age of Algorithms** Chris Wiggins, Matthew L. Jones, 2023-03-21. Fascinating! Jill Lepore, *The New Yorker*. A sweeping history of data and its technical, political, and ethical impact on our world. From facial recognition capable of checking people into flights or identifying undocumented residents to automated decision systems that inform who gets loans and who receives bail, each of us moves through a world determined by data-empowered algorithms. But these technologies didn't just appear; they are part of a history that goes back centuries from the census enshrined in the U.S. Constitution to the birth of eugenics in Victorian Britain to the development of Google search. Expanding on the popular course they created at Columbia University, Chris Wiggins and Matthew L. Jones illuminate the ways in which data has long

been used as a tool and a weapon in arguing for what is true as well as a means of rearranging or defending power. They explore how data was created and curated as well as how new mathematical and computational techniques developed to contend with that data serve to shape people, ideas, society, military operations, and economies. Although technology and mathematics are at its heart, the story of data ultimately concerns an unstable game among states, corporations, and people. How were new technical and scientific capabilities developed? Who supported, advanced, or funded these capabilities or transitions, and how did they change? Who could do what, from what, and to whom? Wiggins and Jones focus on these questions as they trace data's historical arc and look to the future. By understanding the trajectory of data where it has been and where it might yet go, Wiggins and Jones argue that we can understand how to bend it to ends that we collectively choose with intentionality and purpose.

**Stress, Shock, and Adaptation in the Twentieth Century** David Cantor, Edmund Ramsden, 2014. This edited volume explores the emergence of the stress concept and its ever-changing definitions, its uses in making novel linkages between disciplines such as ecology, physiology, psychology, psychiatry, public health, urban planning, architecture, and a range of social sciences, its application in a variety of sites such as the battlefield, workplace, clinic, hospital, and home, and the emergence of techniques of stress management in a variety of different socio-cultural and scientific locations. In short, this volume explores what happened when stress entered the discourse around modernity.

**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 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 *The Terrorism Trap* Harrison Akins, 2023-06-20 After two decades and trillions of dollars the United States fight against terrorism has achieved mixed results Despite the vast resources and attention expended since 9 11 terrorism has increased in many societies that have been caught up in the war on terror Why have U S policies been unable to stem the tide of violence Harrison Akins reveals how the war on terror has had the unintended consequence of increasing domestic terrorism in U S partner states He examines the results of U S backed counterterrorism operations that targeted al Qaeda in peripheral regions of partner states over which their central governments held little control These operations often provoked a violent backlash from local terrorist groups leading to a spike in retaliatory attacks against partner states Senior U S officials frequently failed to grasp the implications of the historical conflict between central governments and the targeted peripheries Instead they exerted greater pressure on partner states to expand their counterterrorism efforts This exacerbated the underlying conditions that drove the escalating attacks trapping these governments in a deadly cycle of tit for tat violence with local terrorist groups This process Akins demonstrates accounts for the lion s share of the al Qaeda network s global terrorist activity since 2001 Drawing on extensive primary sources including newly declassified documents dozens of in depth interviews with leading government officials in the United States and abroad and statistical analysis *The Terrorism Trap* is a groundbreaking analysis of why counterterrorism has backfired

*Understanding and Reducing Landslide Disaster Risk* Binod Tiwari, Kyoji Sassa, Peter T. Bobrowsky, Kaoru Takara, 2020-12-22 This book is a part of ICL new book series ICL Contribution to Landslide Disaster Risk Reduction founded in 2019 Peer reviewed papers submitted to the Fifth World Landslide Forum were published in six volumes of this book series This book contains the followings Five keynote lectures Recent development in physical modeling of landslides Recent development in numerical modeling of landslides Recent development in soil and rock testing techniques application and analysis methods Recent advancements in the methods of slope stability and deformation analyses Recent development in disaster risk assessment Prof Binod Tiwari is a Vice President of the International Consortium on Landslides ICL He is the Associate Vice President for research and sponsored project and Professor of civil and environmental engineering at the California State University Fullerton California USA Prof Kyoji Sassa is the Founding President and the Secretary General of the International Consortium on Landslides ICL He has been the Editor in Chief of International Journal Landslides since its foundation in 2004 Prof Peter Bobrowsky is the President of the International Consortium on Landslides He is a Senior Scientist of Geological Survey of Canada Ottawa Canada Prof Kaoru Takara is the Executive Director of the International Consortium on Landslides He is a Professor and Dean of Graduate School of Advanced Integrated Studies GSAIS in Human Survivability Shishu Kan Kyoto University **Assembling Bus Rapid Transit in the Global South** Malve

Jacobsen, 2020-12-13 This book explores the mobile ethnography of Dar es Salaam where consultants and politicians have planned and implemented a bus rapid transit BRT system for two decades It analyses the dual processes of assembling BRT in the Tanzanian metropolis and establishing BRT as a policy model of and for the Global South The book elucidates how policy models are constructed and circulated around the globe and depicts the processes by which they are translated between and materialise within specific contexts It presents the case of BRT to demonstrate how technocrats shape these processes through persuasive work aimed at disseminating and stabilising this transport model and how local actors influence its adaptation in Dar es Salaam The book adopts a double mobility approach to show how this ethnography follows travelling consultants circulating policies and moving buses to explore the fluidity of the BRT model Linking key debates in policy mobility studies and Science and Technology Studies enriched with postcolonial perspectives and geographies of transport and infrastructure it offers new insights into the technopolitics of planning and implementing infrastructure systems This book will appeal to academics and students of human geography transport studies science and technology studies and African and development studies interested in the technopolitics of transport planning

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web assumption of contract from university of louisville ut will accept assignment of coach s current employment agreement from louisville and pay louisville an assignment fee of 4 375 000 to acquire the opportunity to hire coach at ut ut and coach will amend and restate employment agreement in accordance with ut terms performance incentive

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web article 1 1 1 employment subject to the terms and conditions of this agreement the university shall employ coach as the head coach of its intercollegiate men s football team team coach represents and warrants that coach is fully qualified to serve and is available for employment in this capacity 1 2 reporting relationship

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web suggested title of your contract may be employment agreement for head football baseball basketball volleyball coach or something along those lines make the title bold and in all caps make the title slightly larger in size such as 14 point so that it stands out and place it in the center

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web apr 17 2015 also if a school wants to prevent a coach from leaving to a rival school it should include a non compete clause vanderbilt v dinardo 1999 in 1990 gerry dinardo was hired as the head football coach at vanderbilt and after having success he was offered an two year contract extension by athletic director paul hoolahan in august of

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web define head football coach or head coach this memorandum of agreement moa sets forth the material terms of the offer and will be expanded and incorporated into an employment contract contract for our execution at the earliest possible date

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web jan 14 2022 you re the head coach at state u and you have a five year contract paying you a total of 500 000 a year and your contract includes the above referenced off set provision

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web head coach of football employment contract this employment contract contract effective january 1 2016 by and between the regents of the university of california on behalf of the university of california berkeley campus hereinafter university and daniel dykes hereinafter coach sets forth the terms and conditions

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web the coach agree as follows 1 employment the university employs the coach and the coach accepts employment to serve as a contract employee under the terms of this agreement not as a part of any of the university s tenure or other employment systems the coach shall report to the university s director of intercollegiate athletics athletic

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is usually the third of seven sacraments received it occurs only after receiving baptism and once the person has reached the  
age of reason usually around the second grade first confession the first sacrament of

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communion for the first time that smile that lit you up tells us how you yourself perfectly understood the sweet responsibility  
and the reason for great joy that this rite encloses and gives us communion a wonderful word communion

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web may 1 2020 1 st june 2020 dear parents girls and boys i am writing to you because i will not be able to see most of you before our school closes at the end of june i know you all have made many great sacrifices to keep the rules to stop the spread of the coronavirus it has been very hard to stay at home for so long

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web cecilia giannini gemma s close friend and adoptive mother had a nephew named mariano giannini who was about to receive his first holy communion and she desired to give him some enlightenment and encouragement as a special remembrance of the occasion thinking of gemma s burning love and devotion for jesus in the eucharist she

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