

# **Physical Sciences**

***November***

**EXAM PAPERS**

# Physical Science Paper 2 November 2014 Memo

**Audra J. Wolfe**



## **Physical Science Paper 2 November 2014 Memo:**

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

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

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 **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 **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 **How Data Happened** 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 US 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 **Our Biggest Experiment** Alice Bell,2021-09-21 Traversing science politics and technology

Our Biggest Experiment shines a spotlight on the little known scientists who sounded the alarm to reveal the history behind the defining story of our age the climate crisis Our understanding of the Earth s fluctuating environment is an extraordinary story of human perception and scientific endeavor It also began much earlier than we might think In Our Biggest Experiment

Alice Bell takes us back to climate change science's earliest steps in the eighteenth and nineteenth centuries through the point when concern started to rise in the 1950s and right up to today where the debate is over and the world is finally starting to face up to the reality that things are going to get a lot hotter a lot drier in some places and a lot wetter in others with catastrophic consequences for most of Earth's biomes. Our Biggest Experiment recounts how the world became addicted to fossil fuels how we discovered that electricity could be a savior and how renewable energy is far from a twentieth century discovery. Bell cuts through complicated jargon and jumbles of numbers to show how we're getting to grips with what is now the defining issue of our time. The message she relays is ultimately hopeful: harnessing the ingenuity and intelligence that has driven the history of climate change research can result in a more sustainable and bearable future for humanity.

*Fundamental Solutions and Local Solvability for Nonsmooth Hormander's Operators* Marco Bramanti, Luca Brandolini, Maria Manfredini, Marco Pedroni, 2017-09-25. The authors consider operators of the form in a bounded domain of  $\mathbb{R}^n$  where are nonsmooth Hörmander's vector fields of step  $s$  such that the highest order commutators are only Hörmander continuous. Applying Levi's parametrix method the authors construct a local fundamental solution for  $L$  and provide growth estimates for  $L$  and its first derivatives with respect to the vector fields. Requiring the existence of one more derivative of the coefficients the authors prove that  $L$  also possesses second derivatives and they deduce the local solvability of constructing by means of a solution to  $L u = f$  with Hörmander continuous  $f$ . The authors also prove estimates on this solution. *Resources in Education*, 1981-10.

Factors Affecting Snowmelt and Streamflow United States. Bureau of Reclamation, 1958      **Physical Science**, 1981

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