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REPUBLIC OF SOUTH AFRICA

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**GRADE 12**

**PHYSICAL SCIENCES P2 (CHEMISTRY)**

**COMMON TEST**

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**MARKING GUIDELINES**

**MARKS: 100**

**These marking guidelines consist of 10 pages.**

# Physical Science 2013 Papernovember Memorandum

**Wolfgang Guggemos**



## **Physical Science 2013 Paper**

**November Memorandum:**  
**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

**Space Studies Board Annual Report 2013**  
National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, 2014-04-09 The original charter of the Space Science Board was established in June 1958 3 months before the National Aeronautics and Space Administration NASA opened its doors The Space Science Board and its successor the Space Studies Board SSB have provided expert external and independent scientific and programmatic advice to NASA on a continuous basis from NASA's inception until the present The SSB has also provided such advice to other executive branch agencies including the National Oceanic and Atmospheric Administration NOAA the National Science Foundation NSF the U S Geological Survey USGS the Department of Defense as well as to Congress Space Studies Board Annual Report 2013 covers a message from the chair of the SSB Charles F Kennel This report also explains the origins of the Space Science Board how the Space Studies Board functions today the SSB's collaboration with other National Research Council units assures the quality of the SSB reports acknowledges the audience and sponsors and expresses the necessity to enhance the outreach and improve dissemination of SSB reports This report will be relevant to a full range of government audiences in civilian space research including NASA NSF NOAA USGS and the Department of Energy as well members of the SSB policy makers and researchers

**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

### **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

**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 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 **Native Games** Chris Hallinan,Barry Judd,2013-07-19 Research on Indigenous participation in sport offers many opportunities to better understand the political issues of equality empowerment self determination and protection of culture and identity This volume compares and conceptualises the sociological significance of Indigenous sports in different international contexts Technological Innovation in Legacy Sectors William B. Bonvillian,Charles Weiss,2015-08-18 The American economy misses opportunities for innovation growth and job creation because of a neglected problem the resistance to innovation from Legacy sectors like energy manufacturing and health care which constitute most of our economy The book offers systematic strategies to overcome the structural obstacles to innovation in critically important Legacy sectors *Fluid Mechanics and Hydraulics* Vedat Batu,2024-05-27 Fluid Mechanics and Hydraulics Illustrative Worked Examples of Surface and Subsurface Flows presents the basic principles of fluid mechanics through the use of numerous worked examples Some readers may have interest only in the application parts of various principles without paying too much attention to the derivation details of equations Other readers may have interest both in derivation details and their applications As a result this book is designed to address both needs and most derivation details are included as example problems Therefore those who are not interested in the details of derivations may skip them without interrupting the effective use of the book It serves as an effective learning source for college students and as a teaching tool for instructors with an included solutions manual as well as for practicing professionals in the areas of fluid mechanics and hydraulics **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 [Breakout](#) Newt Gingrich, 2013-11-04 It is not between the Left and the Right but between the past and the future America is on the edge of a breakout In fact we are poised for one of the most spectacular leaps in human well being in history Pioneers of the future innovators and entrepreneurs are achieving breakthroughs in medicine transportation energy education and other fields that will make the world a dramatically different and better place Unless the prison guards of the past stop them Every American must choose a side Will you be a champion of the future or a prisoner of the past Every potential breakthrough has to get past a host of individuals and institutions whose power and comfort depend on the status quo These prison guards of the past will strangle every innovation that threatens to change the way things have always been done if we let them *Handbook on the Politics of Antarctica* Klaus Dodds, Alan D. Hemmings, Peder Roberts, 2017-01-27 The Antarctic and Southern Ocean are hotspots for contemporary endeavours to oversee the last frontier of the Earth The Handbook on the Politics of Antarctica offers a wide ranging and comprehensive overview of the governance geopolitics international law cultural studies and history of the region Four thematic sections take readers from the earliest human encounters to contemporary resource exploitation and climate change Written by leading experts the Handbook brings together the very best interdisciplinary social science and humanities scholarship on the Antarctic and Southern Ocean **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 *The Squares* Cyrus C. M. Mody, 2022-07-12

When ungroovy scientists did groovy science how non activist scientists and engineers adapted their work to a rapidly changing social and political landscape In The Squares Cyrus Mody shows how between the late 1960s and the early 1980s some scientists and engineers who did not consider themselves activists New Leftists or members of the counterculture accommodated their work to the rapidly changing social and political landscape of the time These square scientists Mody shows began to do many of the things that the counterculture urged turn away from military industrial funding become more interdisciplinary and focus their research on solving problems of civil society During the period Mody calls the long 1970s ungroovy scientists were doing groovy science Mody offers a series of case studies of some of these collective efforts by non activist scientists to use their technical knowledge for the good of society He considers the region around Santa Barbara and the interplay of public universities think tanks established firms new companies philanthropies and social movement organizations He looks at Stanford University s transition from Cold War science to commercialized technoscience NASA s search for a post Apollo mission the unsuccessful foray into solar energy by Nobel laureate Jack Kilby the civilianization of the US semiconductor industry and systems engineer Arthur D Hall s ill fated promotion of automated agriculture

**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

**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 [The Soul of Genius](#) Jeffrey Orens, 2021-07-06 A prismatic look at the meeting of Marie Curie and Albert Einstein and the impact these two pillars of science had on the world of physics which was in turmoil In 1911 some of the greatest minds in science convened at the First Solvay Conference in Physics a meeting like no other Almost half of the attendees had won or would go on to win the Nobel Prize Over the course of those few days these minds began to realize that classical physics was about to give way to quantum theory a seismic shift in our history and how we understand not just our world but the universe At the center of this meeting were Marie Curie and a young Albert Einstein In the years preceding Curie had faced the death of her husband and soul mate Pierre She was on the cusp of being awarded her second Nobel Prize but scandal erupted all around her when the French press revealed that she was having an affair with a fellow scientist Paul Langevin The subject of vicious misogynist and xenophobic attacks in the French press Curie found herself in a storm that threatened her scientific legacy Albert Einstein proved an supporter in her travails They had an instant connection at Solvay He was young and already showing flourishes of his enormous genius Curie had been responsible for one of the greatest discoveries in modern science radioactivity but still faced resistance and scorn Einstein recognized this grave injustice and their mutual admiration and respect borne out of this their first meeting would go on to serve them in their paths forward to making history Curie and Einstein come alive as the complex people they were in the pages of The Soul of Genius Utilizing never before seen correspondence and notes Jeffrey Orens reveals the human side of these brilliant scientists one who pushed boundaries and demanded equality in a man's world no matter the cost and the



other who was destined to become synonymous with genius      Well Worth Saving Laurel Leff,2019-12-03 A harrowing account of the profoundly consequential decisions American universities made about refugee scholars from Nazi dominated Europe a finalist for a 2020 National Jewish Book Award The United States role in saving Europe s intellectual elite from the Nazis is often told as a tale of triumph which in many ways it was America welcomed Albert Einstein and Enrico Fermi Hannah Arendt and Herbert Marcuse Rudolf Carnap and Richard Courant among hundreds of other physicists philosophers mathematicians historians chemists and linguists who transformed the American academy Yet for every scholar who survived and thrived many many more did not To be hired by an American university a refugee scholar had to be world class and well connected not too old and not too young not too right and not too left and most important not too Jewish Those who were unable to flee were left to face the horrors of the Holocaust In this rigorously researched book Laurel Leff rescues from obscurity scholars who were deemed not worth saving and tells the riveting full story of the hiring decisions universities made during the Nazi era      Thorium Energy for the World Jean-Pierre Revol,Maurice Bourquin,Yacine Kadi,Egil Lillestol,Jean-Christophe de Mestral,Karel Samec,2016-04-05 The Thorium Energy Conference ThEC13 gathered some of the

world s leading experts on thorium technologies to review the possibility of destroying nuclear waste in the short term and replacing the uranium fuel cycle in nuclear systems with the thorium fuel cycle in the long term The latter would provide abundant reliable and safe energy with no CO2 production no air pollution and minimal waste production The participants representatives of 30 countries included Carlo Rubbia Nobel Prize Laureate in physics and inventor of the Energy Amplifier Jack Steinberger Nobel Prize Laureate in physics Hans Blix former Director General of the International Atomic Energy Agency IAEA Rolf Heuer Director General of CERN Pascal Couchepin former President of the Swiss Confederation and Claude Haegi President of the FEDRE to name just a few The ThEC13 proceedings are a source of reference on the use of thorium for energy generation They offer detailed technical reviews of the status of thorium energy technologies from basic R D to industrial developments They also describe how thorium can be used in critical reactors and in subcritical accelerator driven systems ADS answering the important questions Why is thorium so attractive and what is the role of innovation in particular in the nuclear energy domain What are the national and international R D programs on thorium technologies and how are they progressing ThEC13 was organized jointly by the international Thorium Energy Committee iThEC an association based in Geneva and the International Thorium Energy Organisation IThEO It was held in the Globe of Science and Innovation at the European Organization for Nuclear Research CERN Geneva Switzerland in October 2013

*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

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