

# PHYSICAL SCIENCES

## PAPER 1

## MAY-JUNE

## MEMO

# 2025



Figure 1: A circuit with two parallel branches. The battery has an EMF of 12 V and an internal resistance of 1 Ω. A switch S is in series with the battery. A voltmeter V is connected in parallel across the battery terminals. The first parallel branch contains a 4 Ω resistor and an ammeter A<sub>1</sub> in series. The second parallel branch contains an ammeter A<sub>2</sub> in series with a parallel combination of a 10 Ω resistor and a 15 Ω resistor. A voltmeter V<sub>2</sub> is connected in parallel across the 15 Ω resistor.

- 1.1 (4 marks)
- 1.1.1 Calculate the potential difference across the voltmeter V.
- 1.1.2 Calculate the current through the 15 Ω resistor.



- 2.1 (2 marks)
- 2.1.1 Calculate the magnitude of the force F.
- 2.1.2 Calculate the magnitude of the torque about the pivot.



# Physical Sciences Paper 1 Memorandum June 2013

**Nelson H.F. Beebe**



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

**This Changes Everything** Naomi Klein, 2014-09-16 With strong first hand reporting and an original provocative thesis Naomi Klein returns with this book on how the climate crisis must spur transformational political change **Mechanics of Ice Failure** Ian Jordaan, 2023-03-02 Featuring real world examples and practical methodology this rigorous text combines mechanical theory with design and modelling **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 **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 **Indigenous Peoples' Governance of Land and Protected Territories in the Arctic** Thora Martina Herrmann, Thibault Martin, 2015-12-22 This book addresses critical questions and analyses key issues regarding Indigenous Aboriginal Peoples and governance of land and protected areas in the Arctic It brings together contributions from scientists indigenous and non indigenous researchers local leaders and members of the policy community that document Indigenous Aboriginal approaches to governance of land and protected areas at the local regional and international level explore new territorial governance models that are emerging as part of the Indigenous Aboriginal governance within Arctic States provinces territories and regions analyse the recognition or lack thereof concerning indigenous rights to self determination in the Arctic and examine how traditional decision making arrangements and practices can be linked with governments in the process of good governance The book highlights essential lessons learned success stories and remaining issues all of which are useful to address issues of Arctic governance of land and protected areas today and which could also be relevant for future governance arrangements *Federal Register*, 2013-09 **Beyond Control** James F. Barnett Jr., 2017-03-16 **Beyond Control** reveals the Mississippi as a waterway of change unnaturally confined by ever larger levees and control structures During the

great flood of 1973 the current scoured a hole beneath the main structure near Baton Rouge and enlarged a pre existing football field size crater That night the Mississippi River nearly changed its course for a shorter and steeper path to the sea Such a map changing reconfiguration of the country s largest river would bear national significance as well as disastrous consequences for New Orleans and towns like Morgan City at the mouth of the Atchafalaya River Since 1973 the US Army Corps of Engineers Control Complex at Old River has kept the Mississippi from jumping out of its historic channel and plunging through the Atchafalaya Basin to the Gulf of Mexico Beyond Control traces the history of this phenomenon beginning with a major channel shift around 3 000 years ago By the time European colonists began to explore the Lower Mississippi Valley a unique confluence of waterways had formed where the Red River joined the Mississippi and the Atchafalaya River flowed out into the Atchafalaya Basin A series of human alterations to this potentially volatile web of rivers starting with a bend cutoff in 1831 by Captain Henry Miller Shreve set the forces in motion for the Mississippi s move into the Atchafalaya Basin Told against the backdrop of the Lower Mississippi River s impending diversion the book s chapters chronicle historic floods rising flood crests a changing strategy for flood protection and competing interests in the management of the Old River outlet Beyond Control is both a history and a close look at an inexorable living process happening now in the twenty first century

**The Mathematical-Function Computation Handbook** Nelson H.F. Beebe, 2017-08-20 This highly comprehensive handbook provides a substantial advance in the computation of elementary and special functions of mathematics extending the function coverage of major programming languages well beyond their international standards including full support for decimal floating point arithmetic Written with clarity and focusing on the C language the work pays extensive attention to little understood aspects of floating point and integer arithmetic and to software portability as well as to important historical architectures It extends support to a future 256 bit floating point format offering 70 decimal digits of precision Select Topics and Features references an exceptionally useful author maintained MathCW website containing source code for the book s software compiled libraries for numerous systems pre built C compilers and other related materials offers a unique approach to covering mathematical function computation using decimal arithmetic provides extremely versatile appendices for interfaces to numerous other languages Ada C C Fortran Java and Pascal presupposes only basic familiarity with computer programming in a common language as well as early level algebra supplies a library that readily adapts for existing scripting languages with minimal effort supports both binary and decimal arithmetic in up to 10 different floating point formats covers a significant portion with highly accurate implementations of the U S National Institute of Standards and Technology s 10 year project to codify mathematical functions This highly practical text reference is an invaluable tool for advanced undergraduates recording many lessons of the intermingled history of computer hardware and software numerical algorithms and mathematics In addition professional numerical analysts and others will find the handbook of real interest and utility because it builds on research by the

mathematical software community over the last four decades

**Minimum Deterrence: Examining the Evidence** Keith B. Payne, James Schlesinger, 2016-04-14 The National Institute for Public Policy's new book *Minimum Deterrence: Examining the Evidence* is the first of its kind. Dr. Keith Payne, former Secretary of Defense, James Schlesinger, and an unparalleled bipartisan group of senior civilian and military experts critically examine eight basic assumptions of Minimum Deterrence against available evidence. In general, Minimum Deterrence does not fare well under the careful scrutiny. Proponents of a Minimum Deterrent US nuclear force posture believe that anywhere from a handful to a few hundred nuclear weapons are adequate to deter reliably and predictably any enemy from attacking the United States now and in the future. Because nuclear weapons are so destructive, their thinking goes, no foreign leader would dare challenge US capabilities. The benefits advocates claim of reducing US nuclear weapons to the minimum level needed are better relations with Russia and China, reinforcement of the arms control and Nonproliferation Treaty, billions of defense dollars in savings, and greater international stability on the way to nuclear zero. As political pressure builds to pursue this vision of minimum US deterrence, *Minimum Deterrence: Examining the Evidence* stands as the seminal study to address the many claims of great benefit using available evidence. This book was published as a special issue of *Comparative Strategy*.

**Comprehensive Water Quality and Purification**, 2013-09-24 *Comprehensive Water Quality and Purification* Four Volume Set provides a rich source of methods for analyzing water to assure its safety from natural and deliberate contaminants including those that are added because of carelessness of human endeavors. Human development has great impact on water quality and new contaminants are emerging every day. The issues of sampling for water analysis, regulatory considerations, and forensics in water quality and purity investigations are covered in detail. Microbial as well as chemical contaminations from inorganic compounds, radionuclides, volatile and semivolatile compounds, disinfectants, herbicides, and pharmaceuticals, including endocrine disruptors, are treated extensively. Researchers must be aware of all sources of contamination and know how to prescribe techniques for removing them from our water supply. Unlike other works published to date that concentrate on issues of water supply, water resource management, hydrology, and water use by industry, this work is more tightly focused on the monitoring and improvement of the quality of existing water supplies and the recovery of wastewater via new and standard separation techniques. Using analytical chemistry methods offers remediation advice on pollutants and contaminants in addition to providing the critical identification perspective. The players in the global boom of water purification are numerous and varied. Having worked extensively in academia and industry, the Editor in Chief has been careful about constructing a work for a shared audience and cause.

**International Arbitration in the Energy Sector** Maxi Scherer, 2018-02-22 Disputes in the energy and natural resources sector are at the heart of international arbitration. With more arbitrations arising in the international energy sector than in any other sector, it is not surprising that the highest valued awards in the history of arbitration come from energy-related arbitrations. Energy disputes often involve complex and controversial issues relating to security.

sovereignty and public welfare International Arbitration in the Energy Sector puts international energy disputes into a global context providing broad coverage of different forms and systems of dispute resolution across both renewable and non renewable sectors With contributions from leading arbitrators academics and industry experts from across the globe the twenty chapters in the book enable readers to compare the approaches to and learnings from energy arbitrations across various legal systems and geographic regions After outlining the international energy arbitration legal framework in Part I the text delves into a detailed analysis of the problems which regularly arise in practice These include among other things commercial disputes in Part II e g over the upstream oil sector and long term gas supply contracts investor state disputes in Part III e g under the Energy Charter Treaty and public international law disputes in Part IV e g concerning international boundaries and the distribution of natural resources Alongside recent developments in the international energy sector attention is given to climate and sustainable development disputes which raise important questions about enforcing sustainability objectives on individuals corporations and states Backed by analyses of arbitral awards national court and international tribunal decisions treaties and other international legal instruments as well as current events and news in the energy industry this text offers a unique contribution to international energy literature and provides insightful commentary on the prevalent issues in the field It is essential reading for any practitioner or researcher in the energy and natural resources sector

**Cognitive Communication and Cooperative HetNet Coexistence** Maria-Gabriella Di

Benedetto, Faouzi Bader, 2014-01-16 This book written by experts from universities and major industrial research laboratories is devoted to the very hot topic of cognitive radio and networking for cooperative coexistence of heterogeneous wireless networks Selected highly relevant advanced research is presented on spectrum sensing and progress toward the realization of accurate radio environment mapping biomimetic learning for self organizing networks security threats with a special focus on primary user emulation attack and cognition as a tool for green next generation networks The research activities covered include work undertaken within the framework of the European COST Action IC0902 which is geared towards the definition of a European platform for cognitive radio and networks Communications engineers R D engineers researchers and students will all benefit from this complete reference on recent advances in wireless communications and the design and implementation of cognitive radio systems and networks

**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

*Progress in Computational*

*Flow-Structure Interaction* Werner Haase, Vittorio Selmin, Bengt Winzell, 2013-04-17 Aircraft design processes require extensive work in the area of both aerodynamics and structure forming an environment for aeroelasticity investigations

Present and future designs of European aircraft are characterized by an ever increasing aircraft size and performance Strong

weight saving requirements are met by introduction of new materials leading to more flexible structure of the aircraft. Consequently aeroelastic phenomena such as vortex induced aeroelastic oscillations and moving shock waves can be predominant and may have a significant effect on the aircraft performance. Hence the ability to estimate reliable margins for aeroelastic instabilities flutter or dynamic loads buffeting is a major concern to the aircraft designer. As modern aircrafts have wing bending modes with frequencies that are low enough to influence the flight control system demands on unsteady aerodynamics and structural analysis to predict flight control effectiveness and riding comfort for passengers are extremely high. Therefore the aircraft industries need an improved capacity of robust accurate and reliable prediction methods in the coupled aeroelastic flight mechanics and loads disciplines. In particular it is necessary to develop improve and calibrate the numerical tools in order to predict with high level of accuracy and capability complex and non classical aeroelastic phenomena including aerodynamic non linearities such as shock waves and separation as well as structural non linearities e.g control surface free play. Nowadays robust methods for structural analysis and linearised unsteady aerodynamics are coupled and used by the aircraft industry to computationally clear a new design from flutter.

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.

*Frontiers in Seafloor Geodesy* Ryota Hino, Keiichi Tadokoro, Laura Wallace, 2021-11-01

*Cellular Neural Networks and Analog VLSI* Leon Chua, Glenn Gulak, Edmund Pierzchala, Ángel

Rodríguez-Vázquez,2013-03-09 Cellular Neural Networks and Analog VLSI brings together in one place important contributions and up to date research results in this fast moving area Cellular Neural Networks and Analog VLSI serves as an excellent reference providing insight into some of the most challenging research issues in the field Fast Breeder Reactors P. V. Evans,2013-10-15 Fast Breeder Reactors covers the proceedings of the 1966 London Conference on Fast Breeder Reactors organized by the British Nuclear Energy Society This conference highlights the technical and commercial aspects of nuclear power This book is organized into five sections encompassing 37 chapters The introductory section considers the historical development of British nuclear power technology and its application This section provides an introduction to the principles of fast breeder reactor The succeeding sections look into the mode of operation and the design and physical aspects of prototype fast reactor These sections also consider the theoretical and experimental works of these reactors in the United States A description of the irradiation behavior of plutonium bearing ceramic fuel pins is also included The concluding section explores the control and instrumentation of the prototype fast reactor This section specifically evaluates the main engineering equipment and the experimental work carried out in support of the selected designs and to an explanation of certain problems of sodium technology The design and experimental works on the main circulating pumps the intermediate heat exchanger and the steam generator are also surveyed This book will prove useful to nuclear physicists design engineers and research workers who are interested in nuclear power related fields The Path to the Double Helix Robert Olby,2013-05-13 Written by a noted historian of science this in depth account traces how Watson and Crick achieved one of science s most dramatic feats their 1953 discovery of the molecular structure of DNA People's Diplomacy Kazushi Minami,2024-03-15 In People s Diplomacy Kazushi Minami shows how the American and Chinese people rebuilt US China relations in the 1970s a pivotal decade bookended by Richard Nixon s 1972 visit to China and 1979 normalization of diplomatic relations Top policymakers in Washington and Beijing drew the blueprint for the new bilateral relationship but the work of building it was left to a host of Americans and Chinese from all walks of life who engaged in people to people exchanges After two decades of estrangement and hostility caused by the Cold War these people dramatically changed the nature of US China relations Americans reimagined China as a country of opportunities irresistible because of its prodigious potential while Chinese reinterpreted the United States as an agent of modernization capable of enriching their country and rejuvenating their lives Drawing on extensive research at two dozen archives in the United States and China People s Diplomacy redefines contemporary US China relations as a creation of the American and Chinese people



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with kids inspiring them to live and be their best selves i also love helping other school counselors feel inspired and get passionate about all things school counseling i m glad you re here with me on this

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