

# PHYSICAL SCIENCES

## PAPER 2

### MAY-JUNE

### GRADE 12



Department of  
Basic Education  
REPUBLIC OF SOUTH AFRICA

# MEMO

peroxide, hydrogen peroxide, and DICCNO chloride. The effect of concentration on the rate



The apparatus used for this investigation is shown below.

# 2025



- 01 Explain the term rate of reaction.
- 02 Write down ONE controlled variable for this investigation.

# Physical Science Memo June Paper 2 2014

**S Nieto**



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

Lightning Strikes John F Wasik, 2018-02-28 Seventy years after his death Nikola Tesla has become a rock star Lightning Strikes examines his complete life and legacy including Tesla's profound influence on everything from systems integration to drone warfare Engineers entrepreneurs and academics will find it invaluable not only for the never before published interviews and archives but also for the creative principles that visionaries like Larry Page and Elon Musk have used to build iconic brands and groundbreaking inventions The book also reveals why the government and business leaders wanted to shut down Tesla's bold experiments and how hundreds of his ideas are now being implemented globally including clean power robotics alternating current motors and wireless transmission of power and information As a bonus a free augmented reality app from Yetzer Studio allows you to scan beautiful full color illustrations in the book unlocking an interactive 3D animation as well as videos honoring Tesla's life and legacy

**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

**Spacecraft Dynamics and Control** Enrico Canuto, Carlo Novara, Donato Carlucci, Carlos Perez-Montenegro, Luca Massotti, 2018-03-08 Spacecraft Dynamics and Control The Embedded Model Control Approach provides a uniform and systematic way of approaching space engineering control problems from the standpoint of model based control using state space equations as the key paradigm for simulation design and implementation The book introduces the Embedded Model Control methodology for the design and implementation of attitude and orbit control systems The logic architecture is organized around the embedded model of the spacecraft and its surrounding environment The model is compelled to include disturbance dynamics as a repository of the uncertainty that the

control law must reject to meet attitude and orbit requirements within the uncertainty class The source of the real time uncertainty estimation prediction is the model error signal as it encodes the residual discrepancies between spacecraft measurements and model output The embedded model and the uncertainty estimation feedback noise estimator in the book constitute the state predictor feeding the control law Asymptotic pole placement exploiting the asymptotes of closed loop transfer functions is the way to design and tune feedback loops around the embedded model state predictor control law reference generator The design versus the uncertainty class is driven by analytic stability and performance inequalities The method is applied to several attitude and orbit control problems The book begins with an extensive introduction to attitude geometry and algebra and ends with the core themes state space dynamics and Embedded Model Control Fundamentals of orbit attitude and environment dynamics are treated giving emphasis to state space formulation disturbance dynamics state feedback and prediction closed loop stability Sensors and actuators are treated giving emphasis to their dynamics and modelling of measurement errors Numerical tables are included and their data employed for numerical simulations Orbit and attitude control problems of the European GOCE mission are the inspiration of numerical exercises and simulations The suite of the attitude control modes of a GOCE like mission is designed and simulated around the so called mission state predictor Solved and unsolved exercises are included within the text and not separated at the end of chapters for better understanding training and application Simulated results and their graphical plots are developed through MATLAB Simulink code

Separation of Flow Paul K. Chang, 2014-06-28 Interdisciplinary and Advanced Topics in Science and Engineering Volume 3 Separation of Flow presents the problem of the separation of fluid flow This book provides information covering the fields of basic physical processes analyses and experiments concerning flow separation Organized into 12 chapters this volume begins with an overview of the flow separation on the body surface as discusses in various classical examples This text then examines the analytical and experimental results of the laminar boundary layer of steady two dimensional flows in the subsonic speed range Other chapters consider the study of flow separation on the two dimensional body flow separation on three dimensional body shape and particularly on bodies of revolution This book discusses as well the analytical solutions of the unsteady flow separation The final chapter deals with the purpose of separation flow control to raise efficiency or to enhance the performance of vehicles and fluid machineries involving various engineering applications This book is a valuable resource for engineers

*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

**Heretic's Guide To Management** Paul Culmsee, 2016-07-07 Management techniques such as strategic planning project management or operational budgeting aim to reduce ambiguity and provide clarity So it is one of the great ironies of modern corporate life that these techniques often end up doing the opposite increasing ambiguity rather than reducing it It is easy enough to understand why organizations are complex entities and it is unreasonable to expect management models such as those that fit neatly into a 2x2 matrix or a predetermined checklist to work in the real world Indeed expecting them to work as advertised is akin to colouring a paint by numbers Mona Lisa with the expectation of recreating Da Vinci's masterpiece Ambiguity has not been tamed reality will still impose itself no matter how alluring the model is Unfortunately most of us have a deep aversion to situations that involve even a hint of ambiguity Recent research in neuroscience has revealed the reason for this ambiguity is processed in the parts of the brain which regulate our emotional responses As a result many people associate ambiguity with feelings of anxiety When kids feel anxious they turn to transitional objects such as teddy bears or security blankets providing them with a sense of stability when situations or events seem overwhelming We contend that as grown ups we don't actually stop using teddy bears they take a different form Backed by research we illustrate that management models fads and frameworks are akin to teddy bears They provide the same sense of comfort and certainty to corporate managers and minions as real teddies do to distressed kids This is not a problem in many cases Children usually outgrow their need for a teddy unless if development is disrupted or arrested in some way If this happens the transitional object can become a fetish an object that is held on to with a pathological intensity simply for the comfort that it offers in the face of ambiguity The corporate reliance on simplistic solutions for the complex challenges faced is akin to little Johnny believing that everything will be OK provided he clings on to Teddy Ambiguity is a primal force that drives much of our behaviour It is typically viewed negatively something to be avoided or to be controlled The truth however is that it is a force that can be used in positive ways too The Force that gave the Dark Side their power in the Star Wars movies was harnessed by the Jedi in positive ways Similarly this new management book shows how ambiguous situations so common in the corporate world are processed by the brain and the behaviours that often arise as a consequence More importantly though it shows you how to harness that ambiguity to achieve outstanding results

**Routledge Handbook of Environmental Displacement and Migration** Robert McLeman, François Gemenne, 2018-03-09 The last twenty years have seen a rapid

increase in scholarly activity and publications dedicated to environmental migration and displacement and the field has now reached a point in terms of profile complexity and sheer volume of reporting that a general review and assessment of existing knowledge and future research priorities is warranted. So far such a product does not exist. The Routledge Handbook of Environmental Displacement and Migration provides a state of the science review of research on how environmental variability and change influence current and future global migration patterns and in some instances trigger large scale population displacements. Drawing together contributions from leading researchers in the field, this compendium will become a go to guide for established and newly interested scholars for government and policymaking entities and for students and their instructors. It explains theoretical, conceptual and empirical developments that have been made in recent years, describes their origins and connections to broader topics including migration research, development studies and international public policy and law, and highlights emerging areas where new and/or additional research and reflection are warranted. The structure and the nature of the book allow the reader to quickly find a concise review relevant to conducting research or developing policy on particular topics and to obtain a broad, reliable survey of what is presently known about the subject.

**Thinking and Learning Skills** J. W. Segal, S. F. Chipman, R. Glaser, 2014-06-03. First Published in 1985. This is Volume 1 on Relating Instruction to Research, borne from a conference that took place at the Learning Research and Development Center (LRDC) of the University of Pittsburgh, one of the major research and development centers. The chapters are structured into sections on cognitive skills into three groups: intelligence and reasoning, knowledge acquisition and problem solving. Each chapter in these volumes was especially requested to fulfill a particular function.

**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.

**Energetic Materials Research, Applications, and New Technologies** Goncalves, Rene, Francisco Boschi, Atilio Fritz, Fidel Rocco, José, Iha, Koshun, 2017-12-29. In the last decade, there has been an influx in the development of new technologies for deep space exploration. Countries all around the world are investing in resources to create advanced energetic materials and propulsion systems for their aerospace initiatives. *Energetic Materials Research, Applications, and New Technologies* is an essential reference source of the latest research in aerospace engineering and its application in space exploration. Featuring

comprehensive coverage across a range of related topics such as molecular dynamics rocket engine models propellants and explosives and quantum chemistry calculations this book is an ideal reference source for academicians researchers advanced level students and technology developers seeking innovative research in aerospace engineering Who's who Among Students in American Universities and Colleges Henry Pettus Randall,1978 Parallel Computations Garry Rodrigue,2014-05-10 Parallel Computations focuses on parallel computation with emphasis on algorithms used in a variety of numerical and physical applications and for many different types of parallel computers Topics covered range from vectorization of fast Fourier transforms FFTs and of the incomplete Cholesky conjugate gradient ICCG algorithm on the Cray 1 to calculation of table lookups and piecewise functions Single tridiagonal linear systems and vectorized computation of reactive flow are also discussed Comprised of 13 chapters this volume begins by classifying parallel computers and describing techniques for performing matrix operations on them The reader is then introduced to FFTs and the tridiagonal linear system as well as the ICCG method Different versions of the conjugate gradient method for solving the time dependent diffusion equation are considered Subsequent chapters deal with two and three dimensional fluid flow calculations paying particular attention to the principal issues in designing efficient numerical methods for hydrodynamic calculations the decisions that a numerical modeler must make to optimize chemically reactive flow simulations and how to handle disk to core data transfer and storage allocation for the solution of the implicit equations for three dimensional flows The book also describes the time split finite difference scheme for solving the two dimensional Navier Stokes equation for flows through slotted nozzles Finally the large scale stimulation of plasmas as carried out on a small computer with an array processor is discussed This monograph should be of interest to specialists in computer science **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.

**The Formative Years of Relativity** Hanoch Gutfreund, Jürgen Renn, 2017-09-08. First published in 1922 and based on lectures delivered in May 1921, Albert Einstein's *The Meaning of Relativity* offered an overview and explanation of the then new and controversial theory of relativity. The work would go on to become a monumental classic printed in numerous editions and translations worldwide. Now *The Formative Years of Relativity* introduces Einstein's masterpiece to new audiences. This beautiful volume contains Einstein's insightful text accompanied by important historical materials and commentary looking at the origins and development of general relativity. Hanoch Gutfreund and Jürgen Renn provide fresh original perspectives placing Einstein's achievements into a broader context for all readers. In this book, Gutfreund and Renn tell the rich story behind the early reception, spread, and consequences of Einstein's ideas during the formative years of general relativity in the late 1910s and 1920s. They show that relativity's meaning changed radically throughout the nascent years of its development and they describe in detail the transformation of Einstein's work from the esoteric pursuit of one individual communicating with a handful of colleagues into the preoccupation of a growing community of physicists, astronomers, mathematicians, and philosophers. This handsome edition quotes extensively from Einstein's correspondence and reproduces historical documents such as newspaper articles and letters. Inserts are featured in the main text giving concise explanations of basic concepts and short biographical notes and photographs of some of Einstein's contemporaries are included. The first ever English translations of two of Einstein's popular Princeton lectures are featured at the book's end.

**Educational Audiology Handbook, Third Edition** Cheryl DeConde Johnson, Jane B. Seaton, 2020-03-17. *Educational Audiology Handbook, Third Edition* offers a roadmap for audiologists who work in schools or other providers who support school-based audiology services. As the gold standard text in the field, the handbook provides guidelines and blueprints for creating and maintaining high-quality educational audiology programs. Educational audiologists will also find guidance for achieving full integration into a school staff. Within this comprehensive and practical resource, there are a range of tools including assessment guidelines, protocols, and forms useful information for students, families, school staff, and community partners, as well as legal and reference documents. New to the Third Edition: All chapters revised to reflect current terminology and best practices. A new feature called *Nuggets from the Field* which offers practical information from experienced educational audiologists currently working in school settings. Revised and updated chapter on legislative and policy essentials. Latest perspectives on auditory processing deficits. Contemporary focus on student wellness and social competence. Expanded information and resources for access to general education. Updated perspectives on hearing loss prevention. New information on the development of remote audiology practices. Materials and recommendations to support interprofessional collaboration. Updated and more comprehensive



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**Resources in Education** ,1981-10 **Tectonic Evolution, Collision, and Seismicity of Southwest Asia** Rasoul Sorkhabi,2017-12-21 Southwest Asia is one of the most remarkable regions on Earth in terms of active faulting and folding large magnitude earthquakes volcanic landscapes petroliferous foreland basins historical civilizations as well as geologic outcrops that display the protracted and complex 540 m y stratigraphic record of Earth s Phanerozoic Era Emerged from the birth and demise of the Paleo Tethys and Neo Tethys oceans southwest Asia is currently the locus of ongoing tectonic collision between the Eurasia Arabia continental plates The region is characterized by the high plateaus of Iran and Anatolia fringed by the lofty ranges of Zagros Alborz Caucasus Taurus and Pontic mountains the region also includes the strategic marine domains of the Persian Gulf Gulf of Oman Caspian and Mediterranean This 19 chapter volume published in honor of Manuel Berberian a preeminent geologist from the region brings together a wealth of new data analyses and frontier research on the geologic evolution collisional tectonics active deformation and historical and modern seismicity of key areas in southwest Asia

**Factors Affecting Snowmelt and Streamflow** United States. Bureau of Reclamation,1958 **At Sea Against the Soviet Fleet** Bryan H. Leese,2025-10-14 At Sea Against the Soviet Fleet is a history of the evolution of the United States Navy s Operational Intelligence culture that informs great power competition with China today At Sea Against the Soviet Fleet examines the critical transformation of naval intelligence during a pivotal era marked by the Cold War and the Vietnam conflict Bryan Leese meticulously details how U S Navy operational intelligence evolved to meet the complexities of modern naval warfare particularly in response to the increasing threats posed by the Soviet Navy Structured into four main parts this book begins by examining the Vietnam War and the institutionalization of shipboard operational intelligence or what Navy intelligence calls Opintel The book highlights the establishment of Integrated Operational Intelligence Centers as part of the RA 5C Vigilante program and the innovative strategies that emerged in air combat and targeting Leese goes on to underscore the necessity of Opintel to the U S Navy s close and distant blockade strategy in the 1960s and 1970s He delves into the decentralization of intelligence processes emphasizing the importance of adaptability and the need to prevent surprise attacks This evolution is framed within the transition to the Navy s Ocean Surveillance Information System a decentralized and responsive operational intelligence system The ongoing developments of shipboard intelligence capabilities are explored demonstrating how these advancements empowered naval commanders In the 1970s the organizations evolved as the revolutionary Opintel adaptations of the 1960s that leveraged cooperation without hierarchy became formalized Leese highlights the revolution to evolution process by introducing Opintel support to shipboard tactical decisions to integrate operational intelligence into comprehensive naval strategies Capturing the essence of this

transformative period the author discusses the cultural dynamics within the Navy that fostered innovation and interdepartmental collaboration These developments not only contributed to maintaining a strategic edge over the Soviet Union but also laid the groundwork for future naval operations in the digital age Leese s work reveals the intricate interplay between technology strategy and personnel in creating an effective intelligence framework that allows the U S Navy to assert influence at sea setting conditions for sea control in conflict By blending rich archival research with firsthand accounts this book offers a nuanced understanding of how the Navy adapted to an ever changing operational landscape ultimately preserving peace while navigating the complexities of high stakes maritime conflict

**Complexity, Security and Civil Society in East Asia** Peter Hayes, Kiho Yi, 2015-06-22 Complexity Security and Civil Society in East Asia offers the latest understanding of complex global problems in the region including nuclear weapons urban insecurity energy and climate change Detailed case studies of China North and South Korea and Japan demonstrate the importance of civil society and civic diplomacy in reaching shared solutions to these problems in East Asia and beyond Each chapter describes regional civil society initiatives that tackle complex challenges to East Asia s security In doing so the book identifies key pressure points at which civil society can push for constructive changes especially ones that reduce the North Korean threat to its neighbors Unusually this book is both theoretical and practical Complexity Security and Civil Society in East Asia presents strategies that can be led by civil society and negotiated by its diplomats to realize peace security and sustainability worldwide It shows that networked civic diplomacy offers solutions to these urgent issues that official complex diplomacy cannot By providing a new theoretical framework based on empirical observation this volume is a must read for diplomats scholars students journalists activists and individual readers seeking insight into how to solve the crucial issues of our time

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