

PHYSICAL SCIENCES P.2

MEMO-2024



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

G.12

NATIONAL
SENIOR CERTIFICATE

Diagram on page 9 is redrawn below for easy reference.



Changes to the conditions of equilibrium are made at different times. The graph shows the results obtained. X, Y and Z represent the gases in the above reaction.



2.1.1 Define for both chemical equilibrium

Use the graph to answer the questions below.

4.5 Write down the TYPE of elimination in reaction III.

4.6 Compounds R and T are positional isomers.

The inorganic reagents shown below are available for reactions IV and V.

Br ₂	H ₂ SO ₄ (conc.)	NaOH(aq.)	HBr	K ₂
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Physical Science Paper2 Memo November 2014

Xiaolong Qi



Physical Science Paper2 Memo November 2014:

Professional Journal of the United States Army ,2015 *Military Review* ,2015 **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 *Quantum Legacies* David Kaiser,2020-03-25 A series of engaging essays that explore iconic moments of discovery and debate in physicists ongoing quest to understand the quantum world The ideas at the root of quantum theory remain stubbornly famously bizarre a solid world reduced to puffs of probability particles that tunnel through walls cats suspended in zombielike states neither alive nor dead and twinned particles that share entangled fates For more than a century physicists have grappled with these conceptual uncertainties while enmeshed in the larger uncertainties of the social and political worlds around them a time pocked by the rise of fascism cataclysmic world wars and a new nuclear age In Quantum Legacies David Kaiser introduces readers to iconic episodes in physicists still unfolding quest to understand space time and matter at their most fundamental In a series of vibrant essays Kaiser takes us inside moments of discovery and debate among the great minds of the era Albert Einstein Erwin Schr dinger Stephen Hawking and many more who have indelibly shaped our understanding of nature as they have tried to make sense of a messy world Ranging across space and time the episodes span the heady 1920s the dark days of the 1930s the turbulence of the Cold War and the peculiar political realities that followed In those eras as in our own researchers ambition has often been to transcend the vagaries of here and now to contribute lasting insights into how the world works that might reach beyond a given researcher s limited view In Quantum Legacies Kaiser unveils the difficult and unsteady work required to forge some shared understanding between individuals and across generations and in doing so he

illuminates the deep ties between scientific exploration and the human condition

A Homology Theory for Smale

Spaces Ian F. Putnam, 2014-09-29 The author develops a homology theory for Smale spaces which include the basic 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 Annysa 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 is 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 a 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.

Practical Ethics for the Surgeon

Lloyd Jacobs, 2018-05-09 Publisher's Note: Products purchased from 3rd Party sellers are not guaranteed by the Publisher for quality, authenticity or access to any online entitlements included with the product. Recent significant changes in surgery, technology, regulations and society have greatly impacted how surgeons consider ethical issues in light of professional expertise, wisdom and personal responsibility. Dr Lloyd A. Jacobs, along with world-renowned surgeons and other health care professionals, provides thoughtful, intellectually challenging information and commentary in an easy-to-understand manner to help surgeons think through and respond effectively to complex questions of life, death, provision of health care and more. Covering the wide range of ethical concerns facing today's surgeons, this concise, readable title is beneficial at all levels of training and practice.

Spy Schools

Daniel Golden, 2024-08-06 An exposé revealing how academia has become the center of foreign and domestic espionage and why that is troubling news for our nation's security. Grounded in extensive research and reporting, Pulitzer Prize-winning journalist Daniel Golden's *Spy Schools* reveals how academia has emerged as a frontline in the global spy game. In a knowledge-based economy, universities are repositories of valuable information and research where brilliant minds of all nationalities mingle freely with few questions asked. Intelligence agencies have always recruited bright undergraduates, but now in an era when espionage increasingly requires specialized scientific or technological expertise, they're wooing higher-level academics, not

just as analysts but also for clandestine operations Golden uncovers unbelievable campus activity from the CIA placing agents undercover in Harvard Kennedy School classes and staging academic conferences to persuade Iranian nuclear scientists to defect to a Chinese graduate student at Duke University stealing research for an invisibility cloak and a tiny liberal arts college in Marietta Ohio exchanging faculty with China's most notorious spy school He shows how relentlessly and ruthlessly this practice has permeated our culture not just inside the US but internationally as well Golden blows the lid off this secret culture of espionage and its consequences at home and abroad Whether you are a teacher student or parent Daniel Golden's closely researched account of the assault on our academic freedoms by home grown intelligence services is timely and shocking John le Carr It's real life Spy vs Spy a fascinating book Washington Post

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

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

Essentials of Consumer Behavior Debra L. Stephens, 2016-10-26

Essentials of Consumer Behavior offers an alternative to traditional textbooks for graduate students. Shorter than competing books but no less rigorous, it includes unique material on vulnerable consumers and ethics. Balancing a strong academic foundation with a practical approach, Stephens emphasizes that consumer behavior does not simply equate to buyer behavior. She examines the thoughts, feelings, and behaviors that shape consumers' attitudes and motivations in relation to brands, products, and marketing messages. Providing a concise guide to the discipline, the author covers key themes such as vulnerable consumers, new technologies, and collaborative consumption. The book is supported by a rich companion website offering links to videos and podcasts, surveys, quizzes, further readings, and more. It will be a valuable text for any graduate student of consumer behavior or marketing as well as any interested consumers.

Leave It in the Ground John C.

Berg, 2019-09-03. Employing scientific explanations and hard data, this book shows why coal is such a problem, how the pro-coal forces got to be so powerful, and how those forces might be defeated through political activism. Coal provided the energy to build modern civilization. This energy source raised standards of living, multiplied the earth's population, and enabled people in developed countries to enjoy leisure time. Today we know that if we burn all the coal available, climate change will continue to increase. But the use of coal isn't purely an environmental issue; political and economic forces are also at play. This book examines the politics and environmental impact of coal production and distribution, presenting a clear point of view that we must shift away from coal use, backed by hard data and supplying specific prescriptions for opposing and regulating the coal industry. John C. Berg explains how ending the burning of coal and of oil and natural gas is a political problem rather than a technical one, explodes the clean coal myth, providing scientific documentation of how burning coal emits more greenhouse gases per unit of energy than any other fuel, and describes how controlling coal use in the United States will also restore the possibility of a meaningful international climate agreement. Additionally, readers will understand the critical importance of activism from local to international in spurring government regulation to control the coal industry, which can only be defeated politically.

The Boy Crisis Warren Farrell, John Gray, 2018-03-13

What is the boy crisis? It's a crisis of education. Worldwide, boys are 50 percent less likely than girls to meet basic proficiency in reading, math, and science. It's a crisis of mental health. ADHD is on the rise. And as boys become young men, their suicide rates go from equal to girls to six times that of young women. It's a crisis of fathering. Boys are growing up with less involved fathers and are more likely to drop out of school, drink, do drugs, become delinquent, and end up in prison. It's a crisis of purpose. Boys' old sense of purpose, being a warrior, a leader, or a sole breadwinner, are fading. Many bright boys are experiencing a purpose void, feeling alienated, withdrawn, and addicted to immediate gratification. So what is The Boy Crisis? A comprehensive blueprint for what parents, teachers, and policymakers can do to help our sons become happier, healthier men and fathers and leaders worthy of our

respect *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 Computers and Society Ronald M. Baecker, 2019-04-24 The last century has seen enormous leaps in the development of digital technologies and most aspects of modern life have changed significantly with their widespread availability and use Technology at various scales supercomputers corporate networks desktop and laptop computers the internet tablets mobile phones and processors that are hidden in everyday devices and are so small you can barely see them with the naked eye all pervade our world in a major way Computers and Society Modern Perspectives is a wide ranging and comprehensive textbook that critically assesses the global technical achievements in digital technologies and how are they are applied in media education and learning medicine and health free speech democracy and government and war and peace Ronald M Baecker reviews critical ethical issues raised by computers such as digital inclusion security safety privacy automation and work and discusses social political and ethical controversies and choices now faced by society Particular attention is paid to new and exciting developments in artificial intelligence and machine learning and the issues that have arisen from our complex relationship with AI

Psychopathology William J. Ray, 2024-02-19 In Psychopathology Fourth Edition best selling author William J Ray brings together current perspectives concerning the manner in which the human mind behavior and experience can be understood In addition to the traditional psychological literature this book draws from work in the cognitive and affective neurosciences epidemiology ethology and genetics Ray focuses on unifying and integrating the biopsychosocial understandings of human behavior within a broader consideration of human culture and language as it applies to psychopathology **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 where are nonsmooth Hormander's vector fields of step such that the highest order commutators are only Hölder continuous Applying Levi's parametrix method the authors construct a local fundamental solution for and provide growth estimates for and its first derivatives with respect to the vector fields Requiring the existence of one more derivative of the coefficients the authors prove that also possesses second derivatives and they deduce the local solvability of constructing by means of a solution to with Hölder continuous The authors also prove estimates

on this solution 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

Property Rights in Outer Space Matthew Johnson, 2024-05-28 This book explores the role of private mining rights in the utopian imaginary of space colonisation It presents a transdisciplinary account of the new and evolving legislative frameworks that have been established in anticipation of commercial exploitation of the mineral resources of the off world frontier Written in an engaging style the book investigates a novel case study in the history of capitalism and the commons the emergence of a nascent space mining industry undergirded by a contentious legislative framework In 2015 the US passed laws that would recognise the claims of US corporations to own and sell space resources This unilateral act of pre-emptive law making would appear to contravene the terms of the UN Outer Space Treaty 1967 which declared that the exploration and use of outer space should be for the benefit of all mankind and not subject to national appropriation Using this central dynamic between privately held mining rights and outer space as a global commons Matthew Johnson constructs an historical sociology of space mining from the deep historical roots of common and private property to the contemporary networks of neoliberalism that have engaged with the commercialisation of space activity The anticipatory expansion of private property claims beyond the Earth both resonates with and problematises the terrain of political history such as the tensions between states and markets public law and private power the commons and exclusive property The emerging cosmopolitics of off world private property mirrors and is often explicitly embedded within neoliberal geopolitics prompting urgent questions about how we can reaffirm principles of democracy and common heritage in the international laws of Earth and space This book is compelling reading for anyone interested in the social study of space law economics technology politics and property rights **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

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