

PHYSICAL SCIENCES

PAPER 2

MAY-JUNE

GRADE 12



Department of
Basic Education
REPUBLIC OF SOUTH AFRICA

MEMO

peroxide, hydrogen peroxide, and DICCNO₂ show
the effect of concentration on the rate

$\text{H}_2\text{O}_2 + \text{H}^+ + \text{O}_2\text{O}_2$

The apparatus used for this investigation is shown below.

2025



Flask with reaction
mixture

Balance

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

Physical Science Memo September Paper 2 2011

Jet Propulsion Laboratory (U.S.)



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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

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

Tainted Kristin Sharon Shrader-Frechette, 2014 Three fourths of scientific research in the United States is funded by special interests Many of these groups have specific practical goals such as developing pharmaceuticals or establishing that a pollutant causes only minimal harm For groups with financial conflicts of interest their scientific findings often can be deeply flawed To uncover and assess these scientific flaws award winning biologist and philosopher of science Kristin

Shrader Frechette uses the analytical tools of classic philosophy of science. She identifies and evaluates the concepts, data, inferences, methods, models, and conclusions of science tainted by the influence of special interests. As a result, she challenges accepted scientific findings regarding risks such as chemical toxins and carcinogens, ionizing radiation, pesticides, hazardous waste disposal, development of environmentally sensitive lands, threats to endangered species, and less protective standards for workplace pollution exposure. In so doing, she dissects the science on which many contemporary scientific controversies turn. Demonstrating and advocating liberation science, she shows how practical, logical, methodological, and ethical evaluations of science can both improve its quality and credibility and protect people from harm caused by flawed science, such as underestimates of cancers caused by bovine growth hormones, cell phones, fracking, or high voltage wires. This book is both an in-depth look at the unreliable scientific findings at the root of contemporary debates in biochemistry, ecology, economics, hydrogeology, physics, and zoology and a call to action for scientists, philosophers of science, and all citizens. **NASA**

Technical Memorandum, *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. **Research Summary** Jet Propulsion Laboratory (U.S.), 1960 *Collisions* Alec Nevala-Lee, 2025-06-10

From the acclaimed biographer of Buckminster Fuller, a riveting biography of the Nobel Prize-winning physicist who became the greatest scientific detective of the twentieth century. To his admirers, Luis W. Alvarez was the most accomplished, inventive, and versatile experimental physicist of his generation. During World War II, he achieved major breakthroughs in radar, played a key role in the Manhattan Project, and served as the lead scientific observer at the bombing of Hiroshima. In the decades that followed, he revolutionized particle physics with the hydrogen bubble chamber, developed an innovative X-ray method to search for hidden chambers in the Pyramid of Chephren, and shot melons at a rifle range to test his controversial theory about the Kennedy assassination. At the very end of his life, he collaborated with his son to demonstrate that an asteroid impact was responsible for the extinction of the dinosaurs, igniting a furious debate that raged for years after his death. Alvarez was also a combative and relentlessly ambitious figure, widely feared by his students and associates who testified as a government witness at the security hearing that destroyed the public career of his friend and colleague J. Robert Oppenheimer. In the first comprehensive biography of Alvarez, Alec Nevala-Lee vividly recounts one of the most compelling untold stories in modern science, a narrative overflowing with ideas, lessons, and anecdotes that will fascinate anyone with an interest in how genius and creativity collide with the problems of an increasingly challenging world. *Engineering Physics of High-Temperature Materials* Nirmal K. Sinha, Shoma Sinha, 2022-02-15 **ENGINEERING PHYSICS OF HIGH**

TEMPERATURE MATERIALS Discover a comprehensive exploration of high-temperature materials written by leading

materials scientists In Engineering Physics of High Temperature Materials Metals Ice Rocks and Ceramics distinguished researchers and authors Nirmal K Sinha and Shoma Sinha deliver a rigorous and wide ranging discussion of the behavior of different materials at high temperatures The book discusses a variety of physical phenomena from plate tectonics and polar sea ice to ice age and intraglacial depression and the postglacial rebound of Earth s crust stress relaxation at high temperatures and microstructure and crack enhanced Elasto Delayed Elastic Viscous EDEV models At a very high level Engineering Physics of High Temperature Materials EPHTM takes a multidisciplinary view of the behavior of materials at temperatures close to their melting point The volume particularly focuses on a powerful model called the Elasto Delayed Elastic Viscous EDEV model that can be used to study a variety of inorganic materials ranging from snow and ice metals including complex gas turbine engine materials as well as natural rocks and earth formations tectonic processes It demonstrates how knowledge gained in one field of study can have a strong impact on other fields Engineering Physics of High Temperature Materials will be of interest to a broad range of specialists including earth scientists volcanologists cryospheric and interdisciplinary climate scientists and solid earth geophysicists The book demonstrates that apparently dissimilar polycrystalline materials including metals alloys ice rocks ceramics and glassy materials all behave in a surprisingly similar way at high temperatures This similarity makes the information contained in the book valuable to all manner of physical scientists Readers will also benefit from the inclusion of A thorough introduction to the importance of a unified model of high temperature material behavior including high temperature deformation and the strength of materials An exploration of the nature of crystalline substances for engineering applications including basic materials classification solid state materials and general physical principles Discussions of forensic physical materialogy and test techniques and test systems Examinations of creep fundamentals including rheology and rheological terminology and phenomenological creep failure models Perfect for materials scientists metallurgists and glaciologists Engineering Physics of High Temperature Materials Metals Ice Rocks and Ceramics will also earn a place in the libraries of specialists in the nuclear chemical and aerospace industries with an interest in the physics and engineering of high temperature materials **Beneath the Night**

Stuart Clark,2020-09-29 From stone age to space age every human who has looked up at the night sky has seen the same stars in the same patterns They reveal our entire history as well as hinting at our ultimate fate In Beneath the Night Stuart Clark tells the full story of this relationship From prehistoric cave art and Ancient Egyptian zodiacs to the modern era of satellites and space exploration Clark reveals the history of a fascination that has shaped our scientific understanding helped us navigate the terrestrial world provided inspiration for our poets artists and philosophers and given us a place to project our hopes and fears This is the story of the universe and our place within it **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 *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

Assessment of Advanced Solid-State Lighting National Research Council,Division on Engineering and Physical Sciences,Board on Energy and Environmental Systems,Committee on Assessment of Solid-State Lighting,2013-04-27 The standard incandescent light bulb which still works mainly as Thomas Edison invented it converts more than 90% of the consumed electricity into heat Given the availability of newer lighting technologies that convert a greater percentage of electricity into useful light there is potential to decrease the amount of energy used for lighting in both commercial and residential applications Although technologies such as compact fluorescent lamps CFLs have emerged in the past few decades and will help achieve the goal of increased energy efficiency solid state lighting SSL stands to play a large role in dramatically decreasing U S energy consumption for lighting This report summarizes the current status of SSL technologies and products light emitting diodes LEDs and organic LEDs OLEDs and evaluates barriers to their improved cost and performance Assessment of Advanced Solid State Lighting also discusses factors involved in achieving widespread deployment and consumer acceptance of SSL products These factors include the perceived quality of light emitted by SSL devices ease of use and the useful lifetime of these devices issues of initial high cost and possible benefits of reduced energy consumption

Militarizing the Environment Robert P. Marzec,2015-12-21 As the seriousness of climate change becomes more and more obvious military institutions are responding by taking a prominent role in the governing of environmental concerns engaging in climate change war games and preparing for the effects of climate change from conflicts due to loss of food water and energy to the mass migration of millions of people displaced by rising sea levels This combat oriented stance stems from a self destructive pattern of thought that Robert P Marzec names environmentality an attitude that has been affecting human environmental relations since the seventeenth century Militarizing the Environment traces the rise of this influential mindset in America and other nations that threatens to supplant ideas of sustainability with demands for adaptation In this extensive historical study of scientific military political and economic formations across five centuries Marzec reveals how environmentality has been instrumental in the development of today s security society informing the creation of the military industrial complex during World War II and the

National Security Act that established the CIA during the Cold War Now embedded in contemporary Western thought environmentalism has even infiltrated scientific thinking transforming Darwinian insights into a quasi theology that makes security the biological basis of existence Marzec exposes the self destructive nature of this increasingly accepted worldview and offers alternatives that counter the blind alleys of national and global security [The Rocket Lab](#) Michael G. Smith,2023-05-15 The Rocket Lab Maurice Zucrow Purdue University and America's Race to Space focuses on the golden era of space exploration between 1946 and 1966 specifically the life and times of Purdue University's Dr Maurice J Zucrow a pioneering teacher and researcher in aerospace engineering Zucrow taught America's first university course in jet and rocket propulsion wrote the field's first textbook and established the country's first educational Rocket Lab He was part of a small circle of innovators who transformed Purdue into the country's largest engineering university which became a cradle of astronauts Taking a chronological and thematic approach The Rocket Lab weaves between the local and national drawing in rival universities especially Harvard MIT Princeton and Caltech Also covered is Zucrow's role in the national project system of research and development through World War II and the Cold War At Aerojet he was one of the country's original project engineers dedicated to scientific technical expertise and the stepwise approach He made vanguard power plant contributions to the Northrop Flying Wing as well as the Corporal Nike and Atlas missiles among others Zucrow's work in propulsion helped to improve the country's arsenal of ballistic missiles and space launchers and as a teacher he educated the first generation of aerospace engineers This book elevates Zucrow and the central role he played in getting the United States to space **Purdue's Female Founders** Angie Klink,2025-10-01 Purdue's Female Founders The Untold History of Trailblazing Women Faculty chronicles and celebrates the fortitude and achievements of the foremothers of Purdue University This engaging book offers a collection of profiles of women faculty who despite profound roadblocks because of their gender shaped the institution from its beginning in the late 1800s through the latter half of the twentieth century These are the stories of Purdue women who persevered against the odds to follow their dreams to conduct research and teach establish departments schools and colleges and blaze paths in a male dominated culture Readers will learn about women who faced discrimination but persisted and thrived despite prejudice These compelling profiles celebrate women in art science nutrition literature nursing speech engineering fashion design home economics family life psychology agriculture health and kinesiology business and more Covering 125 years of university history told through the female lens this book rightfully honors the many women who helped shape Purdue [Cities and Crisis](#) Kuniko Fujita,2013-08-22 Recognizing the deep relations between politics finance cities and citizens this book argues for a rejuvenated account of urban theory The book emphasises the need to understand the importance of the 2008 global financial crisis and how the crisis affects cities nested in a variety of political economies Situating urban theory in the current economic climate it powerfully illuminates the dynamic between history theory and practice Stressing how catastrophic social and economic calamities under the crisis lead

to reorganised city structures city life and city policies and hence new urban experience it calls for theoretical perspectives that can speak to these challenging changes This groundbreaking title is a must for anyone interested in urban life and its rapid movements It will be especially useful for students and researchers in urban sociology planning geography urban and regional development and urban studies

How the Hippies Saved Physics: Science, Counterculture, and the Quantum Revival David Kaiser, 2011-06-27 How the Hippies Saved Physics gives us an unconventional view of some unconventional people engaged early in the fundamentals of quantum theory Great fun to read Anton Zeilinger Nobel laureate in physics The surprising story of eccentric young scientists among them Nobel laureates John Clauser and Alain Aspect who stood up to convention and changed the face of modern physics Today quantum information theory is among the most exciting scientific frontiers attracting billions of dollars in funding and thousands of talented researchers But as MIT physicist and historian David Kaiser reveals this cutting edge field has a surprisingly psychedelic past How the Hippies Saved Physics introduces us to a band of freewheeling physicists who defied the imperative to shut up and calculate and helped to rejuvenate modern physics For physicists the 1970s were a time of stagnation Jobs became scarce and conformity was encouraged sometimes stifling exploration of the mysteries of the physical world Dissatisfied underemployed and eternally curious an eccentric group of physicists in Berkeley California banded together to throw off the constraints of the physics mainstream and explore the wilder side of science Dubbing themselves the Fundamental Fysiks Group they pursued an audacious speculative approach to physics They studied quantum entanglement and Bell's Theorem through the lens of Eastern mysticism and psychic mind reading discussing the latest research while lounging in hot tubs Some even dabbled with LSD to enhance their creativity Unlikely as it may seem these iconoclasts spun modern physics in a new direction forcing mainstream physicists to pay attention to the strange but exciting underpinnings of quantum theory A lively entertaining story that illuminates the relationship between creativity and scientific progress How the Hippies Saved Physics takes us to a time when only the unlikely heroes could break the science world out of its rut

Trinity Frank Close, 2019-08-01 Everything about this story is astounding Bryan Appleyard Sunday Times Trinity was the codename for the test explosion of the atomic bomb in New Mexico on 16 July 1945 Trinity is now also the extraordinary story of the bomb's metaphorical father Rudolf Peierls his intellectual son the atomic spy Klaus Fuchs and the ghosts of the security services in Britain the USA and USSR Against the background of pre war Nazi Germany the Second World War and the following Cold War the book traces how Peierls brought Fuchs into his family and his laboratory only to be betrayed It describes in unprecedented detail how Fuchs became a spy his motivations and the information he passed to his Soviet contacts both in the UK and after he went with Peierls to join the Manhattan Project at Los Alamos in 1944 Frank Close is himself a distinguished nuclear physicist uniquely the book explains the science as well as the spying Fuchs returned to Britain in August 1946 still undetected and became central to the UK's independent effort to develop nuclear weapons Close describes

the febrile atmosphere at Harwell the nuclear physics laboratory near Oxford where many of the key players were quartered and the charged relationships which developed there He uncovers fresh evidence about the role of the crucial VENONA signals decryptions and shows how despite mistakes made by both MI5 and the FBI the net gradually closed around Fuchs building an intolerable pressure which finally cracked him The Soviet Union exploded its first nuclear device in August 1949 far earlier than the US or UK expected In 1951 the US Congressional Committee on Atomic Espionage concluded Fuchs alone has influenced the safety of more people and accomplished greater damage than any other spy not only in the history of the United States but in the history of nations This book is the most comprehensive account yet published of these events and of the tragic figure at their centre Across Space and Time Arianna Traviglia,2025-10-01 This volume presents a selection of the best papers presented at the forty first annual Conference on Computer Applications and Quantitative Methods in Archaeology The theme for the conference was Across Space and Time and the papers explore a multitude of topics related to that concept including databases the semantic Web geographical information systems data collection and management and more

Safety Design for Space Systems Tommaso Sgobba,Gary Eugene Musgrave,Gary Johnson,Michael T. Kezirian,2023-07-25 The lack of widespread education in space safety engineering and management has profound effects on project team effectiveness in integrating safety during design On one side it slows down the professional development of junior safety engineers while on the other side it creates a sectarian attitude that isolates safety engineers from the rest of the project team To speed up professional development bridge the gap within the team and prevent hampered communication and missed feedback the entire project team needs to acquire and develop a shared culture of space safety principles and techniques The second edition of Safety Design for Space Systems continues to address these issues with substantial updates to chapters such as battery safety life support systems robotic systems safety and fire safety This book also features new chapters on crew survivability design and nuclear space systems safety Finally the discussion of human rating concepts safety by design principles and safety management practices have also been revised and improved With contributions from leading experts worldwide this second edition represents an essential educational resource and reference tool for engineers and managers working on space projects Provides basic multidisciplinary knowledge on space systems safety design Addresses how space safety engineering and management can be implemented in practice Includes new chapters on crew survivability design and nuclear space systems safety Fully revised and updated to reflect the latest developments in the field

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