

# PHYSICAL SCIENCES P.2

## MEMO-2024



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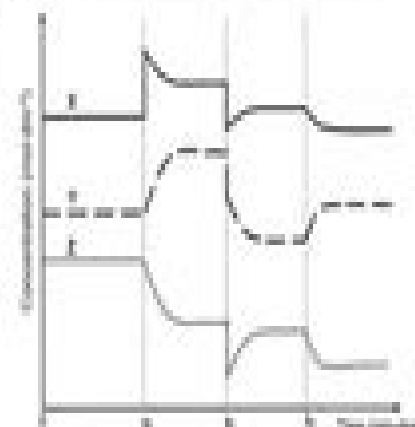
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SENIOR CERTIFICATE

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 <sub>2</sub> | H <sub>2</sub> SO <sub>4</sub> (conc.) | NaOH(aq.) | HBr | H <sub>2</sub> |
|-----------------|----------------------------------------|-----------|-----|----------------|

# Physical Science Paper 2 November 2013 Memorandum

**Tong Lee, Sabrina Speich, Laura  
Lorenzoni, Sanae Chiba, Frank E.  
Muller-Karger, Minhan Dai, Amos T.  
Kabo-Bah, John Siddorn, Justin  
Manley, Maria Snoussi, Fei Chai**

## Physical Science Paper 2 November 2013 Memorandum:

**Bulk Collection of Signals Intelligence** National Research Council, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Committee on Responding to Section 5(d) of Presidential Policy Directive 28: The Feasibility of Software to Provide Alternatives to Bulk Signals Intelligence Collection, 2015-03-24 The Bulk Collection of Signals Intelligence Technical Options study is a result of an activity called for in Presidential Policy Directive 28 PPD 28 issued by President Obama in January 2014 to evaluate U S signals intelligence practices The directive instructed the Office of the Director of National Intelligence ODNI to produce a report within one year assessing the feasibility of creating software that would allow the intelligence community more easily to conduct targeted information acquisition rather than bulk collection ODNI asked the National Research Council NRC the operating arm of the National Academy of Sciences and National Academy of Engineering to conduct a study which began in June 2014 to assist in preparing a response to the President Over the ensuing months a committee of experts appointed by the Research Council produced the report **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 by 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 *Vibrio ecology, pathogenesis and evolution* Rita R Colwell, Daniela Ceccarelli, 2014-10-24 Vibrios are Gram negative bacilli that occur naturally in marine estuarine and freshwater systems Some species include human and animal pathogens capable of causing gastroenteritis wound infections cholera and fatal septicemia Over the past decades cutting edge research on Vibrio genomics has promoted a tremendous advance in our knowledge of these pathogens Significant developments include the discovery of emerging epidemic clones tracking the spread of new strain variants and an intensified appreciation of the role of mobile genetic elements in antibiotic resistance spread as well as pathogenesis Furthermore improved understanding of the interaction of Vibrios with a variety of living organisms in the aquatic environment has documented the significant role of environmental reservoirs in their seasonal cycle favoring persistence of the pathogen during inter epidemic periods and enhancing disease transmission This Research Topic is dedicated to our current understanding in these areas and will bring together leading experts in the field to provide a deep overview of Vibrios ecology and evolution and will suggest the pathway of future research in this field Overcoming

Barriers to Deployment of Plug-in Electric Vehicles National Research Council, Transportation Research Board, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on Overcoming Barriers to Electric-Vehicle Deployment, 2015-06-26 In the past few years interest in plug in electric vehicles PEVs has grown Advances in battery and other technologies new federal standards for carbon dioxide emissions and fuel economy state zero emission vehicle requirements and the current administration's goal of putting millions of alternative fuel vehicles on the road have all highlighted PEVs as a transportation alternative Consumers are also beginning to recognize the advantages of PEVs over conventional vehicles such as lower operating costs smoother operation and better acceleration the ability to fuel up at home and zero tailpipe emissions when the vehicle operates solely on its battery There are however barriers to PEV deployment including the vehicle cost the short all electric driving range the long battery charging time uncertainties about battery life the few choices of vehicle models and the need for a charging infrastructure to support PEVs What should industry do to improve the performance of PEVs and make them more attractive to consumers At the request of Congress Overcoming Barriers to Deployment of Plug in Electric Vehicles identifies barriers to the introduction of electric vehicles and recommends ways to mitigate these barriers This report examines the characteristics and capabilities of electric vehicle technologies such as cost performance range safety and durability and assesses how these factors might create barriers to widespread deployment Overcoming Barriers to Deployment of Plug in Electric Vehicles provides an overview of the current status of PEVs and makes recommendations to spur the industry and increase the attractiveness of this promising technology for consumers Through consideration of consumer behaviors tax incentives business models incentive programs and infrastructure needs this book studies the state of the industry and makes recommendations to further its development and acceptance

Tunnel Visions Michael Riordan, Lilian Hoddeson, Arienne W. Kolb, 2015-11-20 A detailed and engaging account of the development of the superconducting supercollider one of the largest scientific undertakings in the United States Journal of American History Starting in the 1950s US physicists dominated the search for elementary particles aided by the association of this research with national security they held this position for decades In an effort to maintain their hegemony and track down the elusive Higgs boson they convinced President Reagan and Congress to support construction of the multibillion dollar Superconducting Super Collider project in Texas the largest basic science project ever attempted But after the Cold War ended and the estimated SSC cost surpassed ten billion dollars Congress terminated the project in October 1993 Drawing on extensive archival research contemporaneous press accounts and over one hundred interviews with scientists engineers government officials and others involved Tunnel Visions tells the riveting story of the aborted SSC project The authors examine the complex interrelated causes for its demise including problems of large project management continuing cost overruns and lack of foreign contributions In doing so they ask whether Big Science has become too large and expensive including whether academic scientists and their government overseers can effectively manage such an

enormous undertaking Focusing on the scientific technical and political conflicts that led to delays ever rising costs and eventually the SSC s cancelation by Congress Tunnel Visions is a true techno thriller Burton Richter winner of the Nobel Prize in Physics Most good science stories are tales of discovery and success but failure can be just as riveting Here two historians and an archivist describe the greatest particle physics experiment that never was Scientific American

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 Food Processing Stephanie Clark, Stephanie Jung, Buddhi Lamsal, 2014-06-03 FOOD PROCESSING Food Processing Principles and Applications Second Edition is the fully revised new edition of this best selling food technology title Advances in food processing continue to take place as food scientists and food engineers adapt to the challenges imposed by emerging pathogens environmental concerns shelf life quality and safety as well as the dietary needs and demands of humans In addition to covering food processing principles that have long been essential to food quality and safety this edition of Food Processing Principles and Applications unlike the former edition covers microbial enzyme inactivation kinetics alternative food processing technologies as well as environmental and sustainability issues currently facing the food processing industry The book is divided into two sections the first focusing on principles of food processing and handling and the second on processing technologies and applications As a hands on guide to the essential processing principles and their applications covering the theoretical and applied aspects of food processing in one accessible volume this book is a valuable tool for food industry professionals across all manufacturing sectors and serves as a relevant primary or supplemental text for students of food science

**Oceanobs'19: An Ocean of Opportunity. Volume II** Tong Lee, Sabrina Speich, Laura Lorenzoni, Sanae Chiba, Frank E. Muller-Karger, Minhan Dai, Amos T. Kabo-Bah, John Siddorn, Justin Manley, Maria Snoussi, Fei Chai, 2020-12-31 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org/about/contact Road Vehicle Automation 4 Gereon Meyer, Sven Beiker, 2017-06-28 This book is the fourth volume of the sub series of the Lecture Notes in Mobility dedicated to Road Vehicle Automation Its chapters have been written by researchers engineers and analysts from all around the globe Topics covered include public sector activities human factors and challenges ethical legal energy and technology perspectives vehicle systems development as well as transportation infrastructure and planning The

book is based on the Automated Vehicles Symposium which took place in San Francisco California USA in July 2016

Formality of the Little  $\mathbb{N}$ -disks Operad Pascal Lambrechts, Ismar Volić, 2014-06-05 The little disks operad along with its variants is an important tool in homotopy theory It is defined in terms of configurations of disjoint dimensional disks inside the standard unit disk in  $\mathbb{R}^n$  and it was initially conceived for detecting and understanding fold loop spaces Its many uses now stretch across a variety of disciplines including topology algebra and mathematical physics In this paper the authors develop the details of Kontsevich's proof of the formality of little disks operad over the field of real numbers More precisely one can consider the singular chains on as well as the singular homology of These two objects are operads in the category of chain complexes The formality then states that there is a zig zag of quasi isomorphisms connecting these two operads The formality also in some sense holds in the category of commutative differential graded algebras The authors additionally prove a relative version of the formality for the inclusion of the little disks operad in the little disks operad when  $n \geq 2$

*Arctic Systems* P. Amaria, 2013-03-09 For the purpose of publication of these Proceedings the original conference programme has been rearranged to provide a more logical sequence of presentation The beginning sections give the inaugural speech and the six keynote addresses which were delivered at the opening plenary session Following these are the working papers published more or less in the same sequence in which they were presented in the original programme The order of presentation does not necessarily emphasise the importance of any one aspect of the Arctic Systems over others The final reports of the six working groups and their conclusions and recommendations are edited in such a manner as to present them in a standardised format for easy comprehension The editors accept responsibility for any distortion inadvertently introduced in the summarising and editing processes Later sections of the Proceedings give a background to the Conference organization and deliberations and an independent critique of the meeting The directors and those who attended the Conference were conscious of the debt of gratitude owed by them to the Conference chairmen rapporteurs authors of working papers and many individuals for their contributions to the success of the meeting We wish to thank them and it is a pleasure to record their names in these Proceedings Inaugural Speaker Dr J Rennie Whitehead Canada Banquet Guest Speaker Honourable Mr T Alex Hickman Canada Keynote Addresses Mr C Bornemann Denmark Dr A E Collin Canada Dr R E Francois U S A

Coercive Care Bernadette Mcsherry, Ian Freckelton, 2013-06-26 There has been much debate about mental health law reform and mental capacity legislation in recent years with the UN Convention on the Rights of Persons with Disabilities also having a major impact on thinking about the issue This edited volume explores the concept of coercive care in relation to individuals such as those with severe mental illnesses those with intellectual and cognitive disabilities and those with substance use problems With a focus on choice and capacity the book explores the impact of and challenges posed by the provision of care in an involuntary environment The contributors to the book look at mental health capacity and vulnerable adult's care as well as the law related to those areas The book is split into four parts which cover human rights and coercive

care legal capacity and coercive care the legal coordination of coercive care and coercive care and individuals with cognitive impairments The book covers new ground by exploring issues arising from the coercion of persons with various disabilities and vulnerabilities helping to illustrate how the capacity to provide consent to treatment and care is impaired by reason of their condition

*Understanding and Reducing Landslide Disaster Risk* Binod Tiwari, Kyoji Sassa, Peter T. Bobrowsky, Kaoru Takara, 2020-12-22 This book is a part of ICL new book series ICL Contribution to Landslide Disaster Risk Reduction founded in 2019 Peer reviewed papers submitted to the Fifth World Landslide Forum were published in six volumes of this book series This book contains the followings Five keynote lectures Recent development in physical modeling of landslides Recent development in numerical modeling of landslides Recent development in soil and rock testing techniques application and analysis methods Recent advancements in the methods of slope stability and deformation analyses Recent development in disaster risk assessment Prof Binod Tiwari is a Vice President of the International Consortium on Landslides ICL He is the Associate Vice President for research and sponsored project and Professor of civil and environmental engineering at the California State University Fullerton California USA Prof Kyoji Sassa is the Founding President and the Secretary General of the International Consortium on Landslides ICL He has been the Editor in Chief of International Journal Landslides since its foundation in 2004 Prof Peter Bobrowsky is the President of the International Consortium on Landslides He is a Senior Scientist of Geological Survey of Canada Ottawa Canada Prof Kaoru Takara is the Executive Director of the International Consortium on Landslides He is a Professor and Dean of Graduate School of Advanced Integrated Studies GSAIS in Human Survivability Shishu Kan Kyoto University

**Literature 1988, Part 2** Astronomisches Rechen-Institut, 2013-06-29 From the reviews Astronomy and Astrophysics Abstracts has appeared in semi annual volumes since 1969 and it has already become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring sciences It is the most important English language abstracting journal in the mentioned branches The abstracts are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world Space Science Reviews 1 Dividing the whole field plus related subjects into 108 categories each work is numbered and most are accompanied by brief abstracts Fairly comprehensive cross referencing links relevant papers to more than one category and exhaustive author and subject indices are to be found at the back making the catalogues easy to use The series appears to be so complete in its coverage and always less than a year out of date that I shall certainly have to make a little more space on those shelves for future volumes The Observatory Magazine 2

Federal Register , 2013-09 **A History of Habit** Tom Sparrow, Adam Hutchinson, 2013-06-10 From bookshelves overflowing with self help books to scholarly treatises on neurobiology to late night infomercials that promise to make you happier healthier and smarter with the acquisition of just a few simple practices

the discourse of habit is a staple of contemporary culture high and low Discussion of habit however tends to neglect the most fundamental questions What is habit Habits we say are hard to break But what does it mean to break a habit Where and how do habits take root in us Do only humans acquire habits What accounts for the strength or weakness of a habit Are habits something possessed or something that possesses We spend a lot of time thinking about our habits but rarely do we think deeply about the nature of habit itself Aristotle and the ancient Greeks recognized the importance of habit for the constitution of character while readers of David Hume or American pragmatists like C S Peirce William James and John Dewey know that habit is a central component in the conceptual framework of many key figures in the history of philosophy Less familiar are the disparate discussions of habit found in the Roman Stoics Thomas Aquinas Michel de Montaigne Ren Descartes Gilles Deleuze French phenomenology and contemporary Anglo American philosophies of embodiment race and gender among many others The essays gathered in this book demonstrate that the philosophy of habit is not confined to the work of just a handful of thinkers but traverses the entire history of Western philosophy and continues to thrive in contemporary theory A History of Habit From Aristotle to Bourdieu is the first of its kind to document the richness and diversity of this history It demonstrates the breadth flexibility and explanatory power of the concept of habit as well as its enduring significance It makes the case for habit s perennial attraction for philosophers psychologists and sociologists

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 [Integer Programming and Related Areas](#) C.

Kastning,2013-11-11 Integer Programming is one of the most fascinating and difficult areas in the field of Mathematical Optimization Due to this fact notable research contributions to Integer Programming have been made in very different branches of mathematics and its applications Since these publications are scattered over many journals proceedings volumes monographs and working papers a comprehensive bibliography of all these sources is a helpful tool even for specialists in this field I initiated this compilation of literature in 1970 at the Institut für Konometrie und Operations Research University of Bonn Since then many collaborators have contributed to and worked on it Among them Dipl Math Claus Kastning has done the bulk of the work With great perseverance and diligence he has gathered all the material and checked it with the original sources The main aim was to incorporate rare and not easily accessible sources like Russian journals preprints or unpublished papers Without the invaluable and dedicated engagement of Claus Kastning the bibliography would never have reached this final version For this reason he must be considered its responsible editor As with any other collection this literature list has a subjective viewpoint and may be in some sense incomplete We have however tried to be as complete as possible The bibliography contains 4704 different publications by 6767 authors which were classified by 11839 descriptor entries **The SAGE Handbook of Child Research** Gary B Melton,Asher Ben-Arieh,Judith Cashmore,Gail S.

Goodman,Natalie K. Worley,2013-12-18 It is refreshing to see a book such as this which is both broad in its conceptualization of the field of child research and deep in its focus The volume's editors are paragons of awareness when it comes to the need for interdisciplinary research and theory to illuminate the lives and experience of children James Garbarino Loyola University Chicago Covers a satisfying and unprecedentedly wide range of research relating to childhood The contributors include many eminent international scholars of childhood making the book a valuable resource for child researchers Child advocates will also find the book to be invaluable in their efforts to improve children's well being and to change policies and practices for the better Anne Smith University of Otago A really scintillating collection that will provide a lasting perspective on child studies stimulating and comprehensive Jonathan Bradshaw University of York In keeping with global changes in children's social and legal status this Handbook includes examination of children as family members friends learners consumers people of faith and participants in law and politics The contributors also discuss the methodological and ethical requirements for research that occurs in natural settings and that enables children themselves to describe their perspective The book is

divided into three parts Part I Setting Specific Issues in Child Research Part II Population Specific Issues in Child Research Part III Methods in Research on Children and Childhood      Environmental Testing Techniques for Electronics and Materials  
Geoffrey W. A. Dummer, Norman B. Griffin, 2013-10-22 Environmental Testing Techniques for Electronics and Materials  
reviews environmental testing techniques for evaluating the performance of electronic equipment components and materials  
Environmental test planning test methods and instrumentation are described along with the general environmental  
conditions under which equipment must operate This book is comprised of 15 chapters and begins by explaining why  
environmental testing is necessary and describing the environment in which electronics must operate The next chapter  
considers how an environmental test plan is designed the methods for the environmental testing of components and  
materials instrumentation and control of test chambers shock and vibration test instrumentation and requirements for  
specification writing The reader is then introduced to factors that might affect the reliability of equipment including high  
humidity environment galvanic corrosion problems high and low temperature environments mechanical and associated  
hazards transport hazards and long term storage Problems posed by high altitude and space environments nuclear radiation  
and acoustic noise are also discussed The final chapter is devoted to environmental protection techniques and looks at the  
effects of climatic environments on radio interference as well as the effects of the environment on the human operator This  
monograph will be of value to materials scientists and electronics engineers as well as those engaged in the design  
development and production of professional and military equipment

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