

Grade 11

Physical Science

**June Exam and
MEMO**

Physical Science Memorandum June 2015

Alastair J. Litterick



Physical Science Memorandum June 2015:

A History of Scientific Journals Aileen Fyfe, Noah Moxham, Julie McDougall-Waters, Camilla Mørk Røstvik, 2022-10-03
Modern scientific research has changed so much since Isaac Newton's day it is more professional collaborative and international with more complicated equipment and a more diverse community of researchers Yet the use of scientific journals to report share and store results is a thread that runs through the history of science from Newton's day to ours Scientific journals are now central to academic research and careers Their editorial and peer review processes act as a check on new claims and findings and researchers build their careers on the list of journal articles they have published The journal that reported Newton's optical experiments still exists First published in 1665 and now fully digital the Philosophical Transactions has carried papers by Charles Darwin Dorothy Hodgkin and Stephen Hawking It is now one of eleven journals published by the Royal Society of London Unrivalled insights from the Royal Society's comprehensive archives have enabled the authors to investigate more than 350 years of scientific journal publishing The editorial management business practices and financial difficulties of the Philosophical Transactions and its sibling Proceedings reveal the meaning and purpose of journals in a changing scientific community At a time when we are surrounded by calls to reform the academic publishing system it has never been more urgent that we understand its history

Live Trace Visualization for System and Program Comprehension in Large Software Landscapes Florian Fittkau, 2015-12-03 In many enterprises the number of deployed applications is constantly increasing Those applications often several hundreds form large software landscapes The comprehension of such landscapes is frequently impeded due to for instance architectural erosion personnel turnover or changing requirements Furthermore events such as performance anomalies can often only be understood in correlation with the states of the applications Therefore an efficient and effective way to comprehend such software landscapes in combination with the details of each application is required In this thesis we introduce a live trace visualization approach to support system and program comprehension in large software landscapes It features two perspectives a landscape level perspective using UML elements and an application level perspective following the 3D software city metaphor Our main contributions are 1 an approach named ExplorViz for enabling live trace visualization of large software landscapes 2 a monitoring and analysis approach capable of logging and processing the huge amount of conducted method calls in large software landscapes and 3 display and interaction concepts for the software city metaphor beyond classical 2D displays and 2D pointing devices Extensive lab experiments show that our monitoring and analysis approach elastically scales to large software landscapes while imposing only a low overhead on the productive systems Furthermore several controlled experiments demonstrate an increased efficiency and effectiveness for solving comprehension tasks when using our visualization ExplorViz is available as open source software on www.explorviz.net Additionally we provide extensive experimental packages of our evaluations to facilitate the verifiability and reproducibility of our results

ICEL2015-10th

International Conference on e-Learning Dr Carlton Watson, 2015-06-12 These proceedings represent the work of researchers participating in the 10th International Conference on e Learning ICEL 2015 which is being hosted this year by the College of the Bahamas Nassau on the 25 26 June 2015 ICEL is a recognised event on the International research conferences calendar and provides a valuable platform for individuals to present their research findings display their work in progress and discuss conceptual advances in the area of e Learning It provides an important opportunity for researchers and managers to come together with peers to share their experiences of using the varied and expanding range of e Learning available to them With an initial submission of 91 abstracts after the double blind peer review process there are 41 academic Research papers and 2 PhD papers Research papers published in these Conference Proceedings These papers come from some many different countries including Australia Belgium Brazil Canada China Germany Greece Hong Kong Malaysia Portugal Republic of Macedonia Romania Slovakia South Africa Sweden United Arab Emirates UK and the USA A selection of the best papers those agreed by a panel of reviewers and the editor will be published in a conference edition of EJEL the Electronic Journal of e Learning www.ejel.com These will be chosen for their quality of writing and relevance to the Journal s objective of publishing papers that offer new insights or practical help into the application e Learning

Evaluating Police Uses of Force Seth W. Stoughton, Jeffrey J. Noble, Geoffrey P. Alpert, 2021-02-01 Provides a critical understanding and evaluation of police tactics and the use of force Police violence has historically played an important role in shaping public attitudes toward the government Community trust and confidence in policing have been undermined by the perception that officers are using force unnecessarily too frequently or in problematic ways The use of force or harm suffered by a community as a result of such force can also serve as a flashpoint a spark that ignites long simmering community hostility In Evaluating Police Uses of Force legal scholar Seth W Stoughton former deputy chief of police Jeffrey J Noble and distinguished criminologist Geoffrey P Alpert explore a critical but largely overlooked facet of the difficult and controversial issues of police violence and accountability how does society evaluate use of force incidents By leading readers through answers to this question from four different perspectives constitutional law state law administrative regulation and community expectations and by providing critical information about police tactics and force options that are implicated within those frameworks Evaluating Police Uses of Force helps situate readers within broader conversations about governmental accountability the role that police play in modern society and how officers should go about fulfilling their duties

Physical Chemistry Kenneth S Schmitz, 2018-06-14 The advancements in society are intertwined with the advancements in science To understand how changes in society occurred and will continue to change one has to have a basic understanding of the laws of physics and chemistry Physical Chemistry Multidisciplinary Applications in Society examines how the laws of physics and chemistry physical chemistry explain the dynamic nature of the Universe and events on Earth and how these events affect the evolution of society multidisciplinary applications The ordering of the chapters reflects the

natural flow of events in an evolving Universe
Philosophy of Science the basis of the view that natural events have natural causes
Cosmology the origin of everything from the Big Bang to the current state of the Universe
Geoscience the physics and chemistry behind the evolution of the planet Earth from its birth to the present
Life Science the molecules and mechanisms of life on Earth
Ecology the interdependence of all components within the Ecosphere and the Universe
Information Content emphasis on how words and phrases and framing of issues affect opinions
reliability of sources and the limitations of knowledge
Addresses the four Ws of science
Why scientists believe Nature works the way it does
Who helped develop the fields of science
What theories of natural processes tell us about the nature of Nature and
Where our scientific knowledge is taking us into the future
Gives a historical review of the evolution of science and the accompanying changes in the philosophy of how science views the nature of the Universe
Explores the physics and chemistry of Nature with minimal reliance on mathematics
Examines the structure and dynamics of the Universe and our Home Planet Earth
Provides a detailed analysis of how humans as members of the Ecosphere have influenced and are continuing to influence the dynamics of events on the paludarium called Earth
Presents underlying science of current political issues that shape the future of humankind
Emphasizes how words and phrases and framing of issues can influence the opinions of members of society
Makes extensive use of metaphors and everyday experiences to illustrate principles in science and social interactions

Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions
National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Mathematical Sciences and Their Applications, Committee on Applied and Theoretical Statistics, Committee on Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions, 2017-02-06
The Office of the Under Secretary of Defense Personnel Readiness referred to throughout this report as P R is responsible for the total force management of all Department of Defense DoD components including the recruitment readiness and retention of personnel
Its work and policies are supported by a number of organizations both within DoD including the Defense Manpower Data Center DMDC and externally including the federally funded research and development centers FFRDCs that work for DoD
P R must be able to answer questions for the Secretary of Defense such as how to recruit people with an aptitude for and interest in various specialties and along particular career tracks and how to assess on an ongoing basis service members career satisfaction and their ability to meet new challenges
P R must also address larger scale questions such as how the current realignment of forces to the Asia Pacific area and other regions will affect recruitment readiness and retention
While DoD makes use of large scale data and mathematical analysis in intelligence surveillance reconnaissance and elsewhere exploiting techniques such as complex network analysis machine learning streaming social media analysis and anomaly detection these skills and capabilities have not been applied as well to the personnel and readiness enterprise
Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions offers a roadmap and implementation plan for the integration of

data analysis in support of decisions within the purview of P R

Understanding Homeland Security Gus Martin, 2016-07-15 Dr Gus Martin's *Understanding Homeland Security* Second Edition is a thoroughly updated textbook offering much needed insight into the complex nature of issues addressed by the homeland security enterprise This comprehensive textbook addresses such subject areas as emergency management terrorism criminal justice administration intelligence armed conflict and social environments Martin's pedagogical approach is designed to stimulate critical thinking in readers allowing them to not only comprehend the fundamentals but also evolve with the very dynamic nature of homeland security The Second Edition introduces readers to homeland security in the modern era focusing particularly on the post September 11 2001 world Reviewing theories agency missions laws and regulations governing the homeland security enterprise this book keeps readers on the forefront of homeland security

Obesity Management in Primary Care, An Issue of Primary Care: Clinics in Office Practice Mark B. Stephens, 2016-02-18 This issue of *Primary Care Clinics in Office Practice* devoted to Obesity Management is guest edited by Dr Mark Stephens of the Uniformed Services University of the Health Sciences in Bethesda Maryland Articles in this important issue include Obesity What Do the Statistics Say Economic Impact of Obesity The Future of Pediatric Obesity Obesity Prevention and Screening Behavior Modification in Obesity Management Nutritional Therapy Physical Activity Cornerstone or Roadblock Pharmacologic Therapy for Obesity Surgical Approaches to Obesity Multidisciplinary Teams and Obesity Role of the Modern Patient Centered Medical Home PCMH Healthcare Systems and National Policy Role of Leadership in the Obesity Crisis and Special Populations in Obesity Management

On Non-Generic Finite Subgroups of Exceptional Algebraic Groups Alastair J. Litterick, 2018-05-29 The study of finite subgroups of a simple algebraic group G reduces in a sense to those which are almost simple If an almost simple subgroup of G has a socle which is not isomorphic to a group of Lie type in the underlying characteristic of G then the subgroup is called non generic This paper considers non generic subgroups of simple algebraic groups of exceptional type in arbitrary characteristic

Open Rajiv S. Jhangiani, Robert Biswas-Diener, 2017-03-27 Affordable education Transparent science Accessible scholarship These ideals are slowly becoming a reality thanks to the open education open science and open access movements Running separate if parallel courses they all share a philosophy of equity progress and justice This book shares the stories motives insights and practical tips from global leaders in the open movement

Subject Index to Unclassified ASTIA Documents Defense Documentation Center (U.S.), 1960

The Oxford Handbook of International Climate Change Law Cinnamon P. Carlarne, Kevin R. Gray, Richard Tarasofsky, 2016-03-24 Climate change presents one of the greatest challenges of our time and has become one of the defining issues of the twenty first century The radical changes which both developed and developing countries will need to make in economic and in legal terms to respond to climate change are unprecedented International law including treaty regimes institutions and customary international law needs to address the myriad challenges and consequences of climate change including variations in the weather patterns sea level rise

and the resulting migration of peoples The Oxford Handbook of International Climate Change Law provides an unprecedented and authoritative overview of all aspects of international climate change law as it currently stands with guidance for how it should develop in the future Over forty leading scholars and practitioners set out a comprehensive understanding of the legal issues that surround this vitally important but still emerging area of international law This book addresses the major legal dimensions of the problems caused by climate change not only in the content and nature of the international legal frameworks which need implementation at the national level but also the development of carbon trading systems as a means of reducing the costs of meeting emission reduction targets After an introduction to the field the Handbook assesses the relevant institutions the key applicable principles of international law the international mitigation regime and its consequences and climate change litigation before providing perspectives focused upon specific countries or regions The Handbook will be an invaluable resource for scholars students and practitioners of international climate change law It provides readers with diverse perspectives bringing together interpretations from different disciplines countries and cultures

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

Geomechanics and Geology J.P. Turner, D. Healy, R.R. Hillis, M. Welch, 2017-09-19 Geomechanics investigates the origin magnitude and deformational consequences of stresses in the crust In recent years awareness of geomechanical processes has been heightened by societal debates on fracking human induced seismicity natural geohazards and safety issues with respect to petroleum exploration drilling carbon sequestration and radioactive waste disposal This volume explores the common ground linking geomechanics with inter alia economic and petroleum geology structural geology petrophysics seismology geotechnics reservoir engineering and production technology

Geomechanics is a rapidly developing field that brings together a broad range of subsurface professionals seeking to use their expertise to solve current challenges in applied and fundamental geoscience. A rich diversity of case studies herein showcase applications of geomechanics to hydrocarbon exploration and field development, natural and artificial geohazards, reservoir stimulation, contemporary tectonics, and subsurface fluid flow. These papers provide a representative snapshot of the exciting state of geomechanics and establish it firmly as a flourishing subdiscipline of geology that merits broadest exposure across the academic and corporate geosciences.

Solar Surveyors Peter Bond, 2022-07-29 This is the story of humankind's quest over centuries to learn the true nature of the most dominant object in our Solar System, the Sun. Award-winning science writer Peter Bond describes in detail how our ideas about the Sun have changed over the millennia, starting with the simple observations of classical astronomy and continuing through telescopic observations to the age of nuclear physics. He shows how we discovered the Sun's basic characteristics: its distance, size, temperature, and composition, and then describes how, with evermore sophisticated instruments, we have learned about the Sun's enormous energy output, its atmosphere, and the explosive eruptions that blast clouds of magnetized gas and high-energy particles toward our world. Most of this book focuses on the Space Age, when suborbital rockets and satellites have probed every aspect of our nearby star. Each of these missions is described in detail, with summaries of their objectives, spacecraft designs, scientific payloads, and results. The book also looks forward, describing forthcoming missions that will shed new light on remaining solar mysteries, notably the source of the energy that heats the outer corona to millions of degrees. Richly illustrated with mission photos, design diagrams, and infocharts, this book is a fascinating read for anybody interested in the Sun and our attempts to unravel its secrets. **The**

Growing Threat to Air Force Mission-Critical Electronics National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Intelligence Community Studies Board, Air Force Studies Board, Committee on a Strategy for Acquiring Secure and Reliable Electronic Components for Air Force Weapon Systems, 2019-07-09 High performance electronics are key to the U.S. Air Force's USAF's ability to deliver lethal effects at the time and location of their choosing. Additionally, these electronic systems must be able to withstand not only the rigors of the battlefield but be able to perform the needed mission while under cyber and electronic warfare (EW) attack. This requires a high degree of assurance that they are both physically reliable and resistant to adversary actions throughout their life cycle, from design to sustainment. In 2016, the National Academies of Sciences, Engineering, and Medicine convened a workshop titled "Optimizing the Air Force Acquisition Strategy of Secure and Reliable Electronic Components" and released a summary of the workshop. This publication serves as a follow-on to provide recommendations to the USAF acquisition community.

Living in a Nuclear World Bernadette Bensaude-Vincent, Soraya Boudia, Kyoko Sato, 2022-03-10 The Fukushima disaster invites us to look back and probe how nuclear technology has shaped the world we live in and how we have come to live with it. Since the first nuclear detonation, the Trinity test, and the bombings of Hiroshima and Nagasaki in 1945, nuclear technology

has profoundly affected world history and geopolitics as well as our daily life and natural world It has always been an instrument for national security a marker of national sovereignty a site of technological innovation and a promise of energy abundance It has also introduced permanent pollution and the age of the Anthropocene This volume presents a new perspective on nuclear history and politics by focusing on four interconnected themes violence and survival control and containment normalizing through denial and presumptions memories and futures and exploring their relationships and consequences It proposes an original reflection on nuclear technology from a long term comparative and transnational perspective It brings together contributions from researchers from different disciplines anthropology history STS and countries US France Japan on a variety of local national and transnational subjects Finally this book offers an important and valuable insight into other global and Anthropocene challenges such as climate change

Yearbook of International Organizations 2014-2015, Volumes 1a & 1b (Set) Union of International Associations, 2014-06-16 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events

Responding to Extreme Weather Events Daniel Sempere-Torres, Anastasios Karakostas, Claudio Rossi, Philippe Quevauviller, 2024-01-31 An up to date discussion of the latest in weather related event forecasting and management In Responding to Extreme Weather Events a team of distinguished researchers delivers a timely and authoritative exploration of three international extreme weather projects ANYWHERE I REACT and BeAWARE The key contributions from policymaking science and industry in each project are discussed as are the resulting improved measures and technologies for forecasting and managing weather related extreme events The authors cover the entire crisis management cycle from awareness and early warning to effective responses to extreme weather events Readers will also find A thorough introduction to the science and policy background of managing extreme weather events Comprehensive explorations of impact forecasting for extreme weather events including discussion of the ANYWHERE project Practical discussions of how to improve resilience to weather related emergencies with advanced cyber technologies including discussion of the I REACT project A novel framework for crisis management during extreme weather events including discussion of the BeAWARE project Essential for disaster management professionals Responding to Extreme Weather Events will also benefit academic staff and researchers with an interest in extreme weather events and their consequences

Achieving High-Performance Federal Facilities National Research Council, Division on Engineering and Physical Sciences, Board on Infrastructure and the Constructed Environment, Committee on High-Performance Green Federal Buildings: Strategies and Approaches for Meeting Federal Objectives, 2011-12-07 The design construction operation and retrofit of buildings is evolving in response to ever increasing knowledge about the impact of indoor environments on people and the impact of buildings on the environment Research has shown that the quality of indoor environments can affect the health safety and productivity of the people who occupy them Buildings are also resource intensive accounting for 40 percent of primary energy use in the United States 12 percent of water consumption and 60

percent of all non industrial waste The processes for producing electricity at power plants and delivering it for use in buildings account for 40 percent of U S greenhouse gas emissions The U S federal government manages approximately 429 000 buildings of many types with a total square footage of 3 34 billion worldwide of which about 80 percent is owned space More than 30 individual departments and agencies are responsible for managing these buildings The characteristics of each agency s portfolio of facilities are determined by its mission and its programs In 2010 GSA s Office of Federal High Performance Green Buildings asked the National Academies to appoint an ad hoc committee of experts to conduct a public workshop and prepare a report that identified strategies and approaches for achieving a range of objectives associated with high performance green federal buildings Achieving High Performance Federal Facilities identifies examples of important initiatives taking place and available resources The report explores how these examples could be used to help make sustainability the preferred choice at all levels of decision making Achieving High Performance Federal Facilities can serve as a valuable guide federal agencies with differing missions types of facilities and operating procedures

Decoding **Physical Science Memorandum June 2015**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Physical Science Memorandum June 2015**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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