



# **basic education**

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**REPUBLIC OF SOUTH AFRICA**

## **SENIOR CERTIFICATE EXAMINATIONS SENIORSERTIFIKAAT-EKSAMEN**

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# June 2015 Physical Sciences Memorandum

**Dianne V. Jewell**



## **June 2015 Physical Sciences Memorandum:**

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.

**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.

*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 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](http://www.explorviz.net). Additionally, we provide extensive experimental packages of our evaluations to facilitate the verifiability and reproducibility of our results.

**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

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](http://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

**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 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

**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

*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

Guide to Evidence-Based Physical Therapist Practice with Navigate Advantage Access Dianne V. Jewell, 2022-09-13 Guide to Evidence Based Physical Therapist Practice teaches the knowledge and skills to evaluate medical evidence and apply it to the practice of physical therapy It explains the fundamentals of medical research and how to determine which studies are useful in practice Topics including understanding what constitutes evidence searching efficiently for applicable evidence in the literature evaluating the findings in the literature and integrating the evidence with clinical judgment and individual patient preferences and values

**The Chicago Guide to Communicating Science** Scott L. Montgomery, 2017-02-21 Enhanced with approximately 100 additional pages this second edition is a testament to the success of the first one Choice For more than a decade The Chicago Guide to Communicating Science has been the go to reference for anyone who needs to

write or speak about their research Whether it s a student writing a thesis a faculty member composing a grant proposal or a public information officer crafting a press release Scott Montgomery s advice is perfectly adaptable to any scientific writer s needs This new edition has been thoroughly revised to address crucial issues in the changing landscape of scientific communication with an increased focus on those writers working in corporate settings government and nonprofit organizations as well as academia Half a dozen new chapters tackle the evolving needs and paths of scientific writers These sections address plagiarism and fraud writing graduate theses translating scientific material communicating science to the public and the increasing globalization of research Through solid examples and concrete advice Montgomery helps scientists develop their own voice and become stronger communicators He also addresses the roles of media and the public in scientific attitudes and offers advice for those whose research concerns controversial issues such as climate change or emerging viruses Today communicators must move seamlessly among platforms and styles The Chicago Guide to Communicating Science helps scientists and researchers expertly connect with their audiences no matter the medium

*Physical Principles of Astronomical Instrumentation* Peter A. R. Ade, Matthew J. Griffin, Carole E. Tucker, 2021-11-15 Offering practical advice on a range of wavelengths this highly accessible and self contained book presents a broad overview of astronomical instrumentation techniques and tools Drawing on the notes and lessons of the authors established graduate course the text reviews basic concepts in astrophysics spectroscopy and signal analysis It includes illustrative problems and case studies and aims to provide readers with a toolbox for observational capabilities across the electromagnetic spectrum and the knowledge to understand which tools are best suited to different observations It is an ideal guide for undergraduates and graduates studying astronomy Features Presents a self contained account of a highly complex subject Offers practical advice and instruction on a wide range of wavelengths and tools Includes case studies and problems for further learning opportunities Solutions Manual available upon qualifying course adoption

*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

**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 **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 *Quick Current Affairs on Events & Issues 2018* Disha Experts, The Events and Issues 2018 captures all the most important events and all the critical and burning issues of 2017 This ebook has been designed to cater to aspirants of various competitive exams like Civil services Banks Railways UPSC and PSC exams and Quiz Competition across the country The ebook will also be useful for GD Interviews etc Table of Contents Events 2017 Issues 2017 Articles on hot issues **Extreme Weather Events and Human Health** Rais Akhtar, 2019-11-15 This edited book assesses the impacts of various extreme weather events on human health and development from a global perspective and includes several case studies in various geographical regions around the globe Covering all continents it describes the impact of extreme weather conditions such as flash floods heatwaves cold waves



droughts forest fires strong winds and storms in both developing and developed countries The contributing authors also investigate the spread of diseases and the risk to food security caused by drought and flooding Further the book discusses the economic damage resulting from natural disasters including hurricanes It has been estimated that in 2017 natural disasters and climate change resulted in economic losses of 309 billion US dollars Scientists also predict that if nothing is done to curb the effects of climate change in Europe the death toll due to weather disasters could rise 50 fold by the end of the 21st century with extreme heat alone causing more than 150 000 deaths a year as the report on global warming of 1.5 C warns that China Russia and Canada's current climate policies would steer the world above a catastrophic 5 C of warming by the end of 2100 As such the book highlights how the wellbeing of different populations is threatened by extreme events now and in the foreseeable future

#### **Commerce, Justice, Science, and Related Agencies Appropriations for 2017:**

**Justification of the budget estimates** United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies, 2016

**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

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