



basic education

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Basic Education  
REPUBLIC OF SOUTH AFRICA

NATIONAL  
SENIOR CERTIFICATE

GRADE 11

PHYSICAL SCIENCES: PHYSICS (P1)

NOVEMBER 2018

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**FULL MEMORANDUM**  
**GRADE 11 PHYSICS**  
**FINAL EXAM**

Physical Sciences/P1

Grade 11

November 2018

**QUESTION 1: MULTIPLE-CHOICE QUESTIONS**

Various options are provided as possible answers to the following questions. Indicate the correct option by writing (A), (B), (C) or (D) in the answer book, e.g. 1.1 (A).

1.1. The velocity of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.2. The acceleration of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.3. The displacement of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.4. The distance of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.5. The speed of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.6. The magnitude of the velocity of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.7. The direction of the velocity of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.8. The direction of the acceleration of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.9. The direction of the displacement of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.10. The direction of the distance of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.11. The direction of the speed of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.12. The direction of the magnitude of the velocity of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.13. The direction of the direction of the velocity of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.14. The direction of the direction of the acceleration of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.15. The direction of the direction of the displacement of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.16. The direction of the direction of the distance of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

# Engineering Science 2 November 2014 Memorandum

**JL Elias**



## **Engineering Science 2 November 2014 Memorandum:**

Sustainable Development Samuel O. Idowu, Henk J. de Vries, Ivana Mijatovic, Donggeun Choi, 2019-09-27 This book examines education about standardization in the context of sustainable management. It shows the role of standardization education in the global economy and in markets, industries and businesses. The book presents knowledge on standardization for sustainable management, describes measures that can be taken to stimulate it and highlights strategies for teaching and disseminating the concept. Subsequently presenting a number of best practices and case studies, the book seeks to align theory and practice. For researchers, this is the first academic publication that interconnects the concepts of sustainability, standardization and education. For professionals in the area of sustainability, it shows that standardization is an essential instrument for enhancing sustainability for which proper education is needed. For standardization professionals, the book reveals the links to sustainability and it shows not only the importance of education about standardization but also how this can be organized and finally for universities, the book shows that standardization deserves to be included in the curriculum and it provides guidance and best practice examples about how this can be done.

**Care and Repair of Advanced Composites** Keith B. Armstrong, William Cole, Eric Chesmar, Francois Museux, 2020-12-31 The new edition of the well known *Care and Repair of Advanced Composites* 3rd Edition improves on the usefulness of this practical guide geared towards the aerospace industry. Keith B. Armstrong, the original lead author of the first edition, was still in charge of this project, counting on the expert support of Eric Chesmar, senior composites specialist at United Airlines. Mr. Chesmar is also an active member of SAE International's CACRC Commercial Aircraft Composite Repair Committee, an elite group of industry experts dedicated to the standardization, safety, security and efficiency of composite repairs in the airline industry. Mr. Francois Museux, Airbus, and Mr. William F. Cole II also contributed. *Care and Repair of Advanced Composites* 3rd Edition presents a fully updated approach to the training syllabus recommended for repair design engineers and composite repair mechanics. Metal bonding has been included partly because the definition of composite can be interpreted to include metal skinned honeycomb panels and partly because some composite parts have metal fittings or reinforcements that must be treated before bonding. This third edition also covers a number of the problems experienced in service, some of which may be applicable to metallic sandwich panels. It offers suggestions for design improvements, including repair design as a particular topic and regulatory changes. *Care and Repair of Advanced Composites* 3rd Edition provides solid technical information and training for a wide range of airline staff.

*United States Code* United States, 2018

**The History of the Study of Landforms or the Development of Geomorphology, Volume 5** T.P. Burt, A.S. Goudie, H.A. Viles, 2022-10-20 Co-published with British Society for Geomorphology. This volume is the fifth in the definitive series *The History of the Study of Landforms or the Development of Geomorphology*. Volume 1 (1964) dealt with contributions to the field up to 1890. Volume 2 (1973) with the concepts and contributions of William Morris Davis. Volume 3 (1991) covered historical and regional themes during the classic period of

geomorphology 1890 1950 Volume 4 2008 concentrated on studies of geomorphological processes and Quaternary geomorphology between 1890 and 1965 by the end of this period process based studies had become dominant Volume 5 builds on this platform covering in detail the revolutionary changes in approach that characterized the study of geomorphology in the second half of the twentieth century It is divided into three sections the first deals with changes in approach and method the second with changes in ideas and the broader scientific context within which geomorphology is studied and the final section details advances in research on processes and landforms The volume s objective is to describe and analyse many of the developments that provide a foundation for the rich and varied subject matter of twenty first century geomorphology

*The Military Revolution and Revolutions in Military Affairs* Mark Fissel, 2022-12-05 The Military Revolution and Revolutions in Military Affairs updates two central debates in military history the one surrounding the concept of military revolution and the one on military affairs whilst advancing original research in both fields Only a handful of publications consider the military revolution and the RMA in tandem This book breaks new ground conceptually and appeals to an exceptionally large and diverse readership Comparative revisionist studies of the military revolution and RMA better enable us to comprehend the historical continuum and reveal the new RMA for what it is And for what it is shortly to become This book presents original contributions within the epicentre of the military revolution debate the 1500s with an emphasis on gunpowder revolution offensively and defensively The connections with the Revolution in Military Affairs are then made explicit by scholars a practitioner and an analyst with an emphasis on airborne lethal autonomous weapons systems This is a chronologically broad and unique methodological approach to a historical debate that begs for clarification as we enter an era where killer robots will almost certainly take from humans their monopoly on violence

**China as a Twenty-First Century Naval Power** Michael A McDevitt, 2020-10-15 Xi Jinping has made his ambitions for the People s Liberation Army PLA perfectly clear there is no mystery what he wants first that China should become a great maritime power and secondly that the PLA become a world class armed force by 2050 He wants this latter objective to be largely completed by 2035 China as a Twenty First Century Naval Power focuses on China s navy and how it is being transformed to satisfy the world class goal Beginning with an exploration of why China is seeking to become such a major maritime power author Michael McDevitt first explores the strategic rationale behind Xi s two objectives China s reliance on foreign trade and overseas interests such as China s Belt and Road strategy In turn this has created concerns within the senior levels of China s military about the vulnerability of its overseas interests and maritime life lines is a major theme McDevitt dubs this China s sea lane anxiety and traces how this has required the PLA Navy to evolve from a near seas focused navy to one that has global reach a blue water navy He details how quickly this transformation has taken place thanks to a patient step by step approach and abundant funding The more than 10 years of anti piracy patrols in the far reaches of the Indian Ocean has acted as a learning curve accelerator to blue water status McDevitt then explores the PLA Navy s role in the South China Sea

and the Indian Ocean He provides a detailed assessment of what the PLAN will be expected to do if Beijing chooses to attack Taiwan potentially triggering combat with America's first responders in East Asia especially the U S Seventh Fleet and U S Fifth Air Force He conducts a close exploration of how the PLA Navy fits into China's campaign plan aimed at keeping reinforcing U S forces at arm's length what the Pentagon calls anti access and area denial A2 AD if war has broken out over Taiwan or because of attacks on U S allies and friends that live in the shadow of China McDevitt does not know how Xi defines world class but the evidence from the past 15 years of building a blue water force has already made the PLA Navy the second largest globally capable navy in the world This book concludes with a forecast of what Xi's vision of a world class navy might look like in the next fifteen years when the 2035 deadline is reached *Your Computer Is on Fire* Thomas S.

Mullaney,Benjamin Peters,Mar Hicks,Kavita Philip,2021-03-09 Technology scholars declare an emergency attention must be paid to the inequality marginalization and biases woven into our technological systems This book sounds an alarm we can no longer afford to be lulled into complacency by narratives of techno utopianism or even techno neutrality We should not be reassured by such soothing generalities as human error virtual reality or the cloud We need to realize that nothing is virtual everything that happens online virtually or autonomously happens offline first and often involves human beings whose labor is deliberately kept invisible Everything is IRL In *Your Computer Is on Fire* technology scholars train a spotlight on the inequality marginalization and biases woven into our technological systems **The Oxford Handbook of Non-Synoptic**

**Wind Storms** Horia Hangan,Ahsan Kareem,2021 Worldwide much of the damage due to wind is caused by non synoptic local wind storm events such as tornadoes and downbursts The need is clear to better understand non synoptic local winds properly simulate them assess the difference in loading between these events and synoptic large scale winds determine their statistics and associated risks and apply this through guidelines codes risk mitigation and adaptation responses to socioeconomic impact This Handbook features a cohesive collection of 25 articles contributed by leading scientists scholars and engineers Together they provide clear definitions of the problems to be tackled identify the best suited tools and methodologies to address them suggest ways to maximize collaborative planning and offer a strategic framework for forward looking research Knowledge Discovery in Big Data from Astronomy and Earth Observation Petr Skoda,Fathalrahman

Adam,2020-04-09 Knowledge Discovery in Big Data from Astronomy and Earth Observation Astrogeoinformatics bridges the gap between astronomy and geoscience in the context of applications techniques and key principles of big data Machine learning and parallel computing are increasingly becoming cross disciplinary as the phenomena of Big Data is becoming common place This book provides insight into the common workflows and data science tools used for big data in astronomy and geoscience After establishing similarity in data gathering pre processing and handling the data science aspects are illustrated in the context of both fields Software hardware and algorithms of big data are addressed Finally the book offers insight into the emerging science which combines data and expertise from both fields in studying the effect of cosmos on the

earth and its inhabitants

**Technological Innovation in Legacy Sectors** William B. Bonvillian, Charles Weiss, 2015-08-18

The American economy faces two deep problems expanding innovation and raising the rate of quality job creation Both have roots in a neglected problem the resistance of Legacy economic sectors to innovation While the U S has focused its policies on breakthrough innovations to create new economic frontiers like information technology and biotechnology most of its economy is locked into Legacy sectors defended by technological economic political social paradigms that block competition from disruptive innovations that could challenge their models Americans like to build technology covered wagons and take them out west to open new innovation frontiers we don't head our wagons back east to bring innovation to our Legacy sectors By failing to do so the economy misses a major opportunity for innovation which is the bedrock of U S competitiveness and its standard of living

**Technological Innovation in Legacy Sectors** uses a new unifying conceptual framework to identify the shared features underlying structural obstacles to innovation in major Legacy sectors energy air and auto transport the electric power grid buildings manufacturing agriculture health care delivery and higher education and develops approaches to understand and transform them It finds both strengths and obstacles to innovation in the national innovation environments a new concept that combines the innovation system and the broader innovation context for a group of Asian and European economies Manufacturing is a major Legacy sector that presents a particular challenge because it is a critical stage in the innovation process By increasingly offshoring production the U S is losing important parts of its innovation capacity Innovate here produce here where the U S took all the gains of its strong innovation system at every stage is being replaced by innovate here produce there which threatens to lead to produce there innovate there To bring innovation to Legacy sectors authors William Bonvillian and Charles Weiss recommend that policymakers focus on all stages of innovation from research through implementation They should fill institutional gaps in the innovation system and take measures to address structural obstacles to needed disruptive innovations In the specific case of advanced manufacturing the production ecosystem can be recreated to reverse jobless innovation and add manufacturing led innovation to the U S's still strong research oriented innovation system

**The Promise of Evidence-based Policymaking** United States. Commission on Evidence-Based Policymaking, 2017

**The Promise of Evidence-based Policymaking** United States. Commission on Evidence-Based Policymaking, 2017

*Social and Behavioral Sciences for National Security* National Academies of Sciences, Engineering, and Medicine, Division of Behavioral and Social Sciences and Education, Board on Behavioral, Cognitive, and Sensory Sciences, 2017-06-12

In the coming years complex domestic and international environments and challenges to national security will continue Intelligence analysts and the intelligence community will need access to the appropriate tools and developing knowledge about threats to national security in order to provide the best information to policy makers Research and knowledge from the social and behavioral sciences SBS can help inform the work of intelligence analysis however in the past bringing important findings from research to bear on the day to day work of intelligence analysis has

been difficult In order to understand how knowledge from science can be directed and applied to help the intelligence community fulfill its critical responsibilities the National Academies of Sciences Engineering and Medicine will undertake a 2 year survey of the social and behavioral sciences To launch this discussion a summit designed to highlight cutting edge research and identify future directions for research in a few areas of the social and behavioral sciences was held in October 2016 This publication summarizes the presentations and discussions from the summit

**Treaties In Force: A List Of Treaties and Other International Agreements of the United States in Force on January 1, 2016** State Dept., Office of the Legal Adviser, Treaty Affairs Staff, 2017-02-02 Treaties in Force is prepared by the Department of State for the purpose of providing information on treaties and other international agreements to which the United States has become a party and which are carried on the records of the Department of State as being in force as of its stated publication date January 1 2016 Treaties in Force is arranged in two sections Section 1 includes bilateral treaties and other international agreements listed by country or other international entity with subject headings under each entry Arrangements with territorial possessions of a country appear at the end of the entry for that country In some cases treaties and international agreements applicable to a territory prior to its independence are included in the entry for that country on the basis of its assumption of treaty obligations upon becoming independent as noted at the beginning of the entry for that country For convenience some treaties and agreements concluded with countries whose name or statehood status has changed continue to be listed under the name in use at the time the agreement was concluded if the title of the treaty or agreement has not been formally amended Section 2 lists multilateral treaties and other international agreements to which the United States is a party arranged by subject The depositary is the authoritative source for a current list of parties and information on other matters concerning the status of the agreement and status information often changes Information is provided on the depositary for the agreement in question and contact information including an Internet site is provided for the depositary where available Related products International Foreign Affairs resources collection can be found here <https://bookstore.gpo.gov/catalog/international-foreign-affairs>

[Simulation-Based Usability Evaluation of Spoken and Multimodal Dialogue Systems](#) Stefan Hillmann, 2017-11-23 This book describes an extension of the user behaviour simulation UBS of an existing tool for automatic usability evaluation AUE This extension is based upon a user study with a smart home system It uses technical sociological methods for the execution of the study and the analysis of the collected data A comparison of the resulting UBS with former UBSs as well as the empirical data shows that the new simulation approach outperforms the former simulation The improvement affects the prediction of dialogue metrics that are related to dialogue efficiency and dialogue effectiveness Furthermore the book describes a parameter based data model as well as a related framework Both are used to uniformly describe multimodal human computer interactions and to provide such descriptions for usability evaluations Finally the book proposes a new two stage method for the evaluation of UBSs The method is based on the computation of a distance measures

between two dialogue corpora and the pair wise comparison of distances among several dialogue corpora      *Building Drexel*  
Richardson Dilworth, Scott Gabriel Knowles, 2016-12-12 Published in conjunction with Drexel University's 125th anniversary  
*Building Drexel* chronicles the founding of the university by Anthony J Drexel through to the present day The editors and contributors create a prismatic discussion of the university and its evolution Richly illustrated chapters cover the architectural history of notable Drexel buildings the role of Drexel in Philadelphia's modern history its Greek life sports particularly Drexel's history in the Big 5 and each of the university's schools and colleges There is a history of the medical college and law school plus the creation of new schools such as those of biomedical engineering science and health systems *Building Drexel* also documents the civil rights history of Drexel and its urban planning history in relation to the racially diverse Powelton Village and Mantua neighborhoods it borders This commemorative volume shows the development of the university both in the city and in the world Contributors include Lloyd Ackert Cordelia Frances Biddle Paula Marantz Cohen Donna Marie De Carolis Roger Dennis Gloria Donnelly Kevin D Egan Alissa Falcone David Fenske John A Fry Stephen F Gambescia Marla J Gold Charles Haas Kathy Harvatt Daniel Johnson Jeannine Keefer Larry Keiser Michael Kelley Jason Ludwig Jonson Miller Julie Mostov Danuta A Nitecki Anthony M Noce Steven J Peitzman David Raizman Tiago Saraiva Amy E Slaton Nathaniel Stanton Virginia Theerman Laura Valenti James Wolfinger Eric A Zillmer and the editors      *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      **Time in Variance** Arkadiusz Misztal, Paul A. Harris, Jo Alyson Parker, 2021-09-20 This interdisciplinary volume of essays explores how the notion of time varies across disciplines by examining variance as a defining feature of temporalities in cultural creative and scholarly contexts Featuring a President's Address by philosopher David Wood it begins with critical reassessments of J T Fraser's hierarchical theory of time through the lens of Anthropocene studies philosophy ecological theory and ecological literature proceeds to variant narratives in fiction video games film and graphic novels and concludes by measuring time's variance with tools as different as incense clocks and computers and by marking variance in music film and performance art      *Treaties in Force*, 2016      *Geotechnics Fundamentals and Applications in Construction* Rashid Mangushev, Askar Zhussupbekov, Yoshinori Iwasaki, Igor Sakharov, 2019-04-29 *Geotechnical Fundamentals and Applications in Construction* New Materials Structures Technologies and Calculations contains the papers presented at the International Conference on Geotechnical Fundamentals and Applications in Construction New Materials Structures Technologies and Calculations GFAC 2019 Saint Petersburg Russia 6-8 February 2019 The contributions present the latest research findings developments and applications in the areas of geotechnics soil mechanics foundations geological engineering and share experiences in the design of complex geotechnical objects and are grouped in 8 sections Analytical decisions and numerical modeling for foundations Design and construction in geologically hazardous conditions Methods for surveying the features of dispersed

rocky soils and structurally unstable soils Exploration territory improvement and reconstruction in conditions of compact urban planning and enterprises etc Construction reconstruction and exploitation of infrastructure facilities in different soil conditions R Condition survey and accident evolution analysis in construction Up to date monitoring techniques in building construction and exploitation Geotechnical Fundamentals and Applications in Construction New Materials Structures Technologies and Calculations collects the state of the art in geotechnology and construction and will be of interest to academia and professionals in geotechnics soil mechanics foundation engineering and geological engineering

## The Enigmatic Realm of **Engineering Science 2 November 2014 Memorandum**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Engineering Science 2 November 2014 Memorandum** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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