

# PHYSICAL SCIENCES

## PAPER 1

## MAY-JUNE

## MEMO

# 2025



Figure 1: A circuit is shown in which  $E$ , the EMF (12 V) is equal to the voltage across the battery.

1.1 (4 marks)  
State the meaning implied by each of the components shown above. Give 2 marks for each of the 4 items. (4 marks)



- 2.1 (2 marks) Calculate the weight  $F$ .  
2.2 (2 marks) Calculate the magnitude of  $F$  if the beam is horizontal.



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REPUBLIC OF SOUTH AFRICA

# Physical Science Paper Memo 2015 June Examination

**Padhraic Smyth**



## **Physical Science Paper Memo 2015 June Examination:**

*Rcra Regulations & Keyword Index 2015* John F. Buckley, IV, 2015-01-01      **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

Shiphandling Simulation National Research Council, Division on Engineering and Physical Sciences, Commission on Engineering and Technical Systems, Marine Board, Committee on Assessment of Shiphandling Simulation, 1992-02-01 As a result of major shipping disasters on all coasts the safety of vessel operations in U S ports and waterways and the effectiveness of waterway designs are under increased scrutiny But are traditional waterway design practices that rely heavily on rules of thumb and conservatism providing adequate margins of safety while keeping the overall costs of waterway projects within the funding capabilities of local project sponsors Shiphandling Simulation addresses how computer based simulation can be used to improve the cost effectiveness of waterway design while satisfying safety objectives The book examines the role of computer simulation in improving waterway design evaluates the adequacy of data input explores the validity of hydrodynamic and mathematical models assesses required and achievable accuracy of simulation results and identifies research needed to establish shiphandling simulation as a standard design aid Case studies of waterway design efforts employing shiphandling simulation are analyzed and lessons learned are identified      Physical Test Methods for Elastomers Roger Brown, 2017-10-18 This book provides comprehensive coverage of all aspects of physical testing of elastomers rubbers and thermoplastic elastomers including mechanical electrical thermal and all aspects of durability Elastomers are an important class of materials used in such products as tyres seals and hose which have markedly different properties to other materials The importance of testing of elastomers means that a comprehensive text on the subject is

essential The advantage over general materials testing books is being more specific while the advantage over general rubber technology books is that testing is dealt with in depth **Subject Index to Unclassified ASTIA Documents** Defense Documentation Center (U.S.),1960 The Terrorism Trap Harrison Akins,2023-06-20 After two decades and trillions of dollars the United States fight against terrorism has achieved mixed results Despite the vast resources and attention expended since 9 11 terrorism has increased in many societies that have been caught up in the war on terror Why have U S policies been unable to stem the tide of violence Harrison Akins reveals how the war on terror has had the unintended consequence of increasing domestic terrorism in U S partner states He examines the results of U S backed counterterrorism operations that targeted al Qaeda in peripheral regions of partner states over which their central governments held little control These operations often provoked a violent backlash from local terrorist groups leading to a spike in retaliatory attacks against partner states Senior U S officials frequently failed to grasp the implications of the historical conflict between central governments and the targeted peripheries Instead they exerted greater pressure on partner states to expand their counterterrorism efforts This exacerbated the underlying conditions that drove the escalating attacks trapping these governments in a deadly cycle of tit for tat violence with local terrorist groups This process Akins demonstrates accounts for the lion s share of the al Qaeda network s global terrorist activity since 2001 Drawing on extensive primary sources including newly declassified documents dozens of in depth interviews with leading government officials in the United States and abroad and statistical analysis The Terrorism Trap is a groundbreaking analysis of why counterterrorism has backfired

*The First Atomic Bomb* Janet Farrell Brodie,2023-06 2024 Southwest Book of the Year On July 16 1945 just weeks before the atomic bombing of Hiroshima and Nagasaki that brought about the surrender of Japan and the end of World War II the United States unleashed the world s first atomic bomb at the Trinity testing site located in the remote Tularosa Valley in south central New Mexico Immensely more powerful than any weapon the world had seen the bomb s effects on the surrounding and downwind communities of plants animals birds and humans have lasted decades In *The First Atomic Bomb* Janet Farrell Brodie explores the history of the Trinity test and those whose contributions have rarely if ever been discussed the men and women who constructed served and witnessed the first test as well as the downwinders who suffered the consequences of the radiation Concentrating on these ordinary people laborers ranchers and Indigenous peoples who lived in the region and participated in the testing Brodie corrects the lack of coverage in existing scholarship on the essential details and everyday experiences of this globally significant event *The First Atomic Bomb* also covers the environmental preservation of the Trinity test site and compares it with the wide range of atomic sites now preserved independently or as part of the new Manhattan Project National Historical Park Although the Trinity site became a significant node for testing the new weapons of the postwar United States it is known today as an officially designated National Historic Landmark Brodie presents a timely important and innovative study of an explosion that carries special historical weight in American memory **The**

**2015 Regional Forecast and Urban Development Patterns** Sonny Conder, 1964      Petroleum and Public Safety James B. McSwain, 2018-07-06 Throughout the twentieth century cities such as Houston Galveston New Orleans and Mobile grappled with the safety hazards created by oil and gas industries as well as the role municipal governments should play in protecting the public from these threats James B McSwain s Petroleum and Public Safety reveals how officials in these cities created standards based on technical scientific and engineering knowledge to devise politically workable ordinances related to the storage and handling of fuel Each of the cities studied in this volume struggled through protracted debates regarding the regulation of crude petroleum and fuel oil sparked by the famous Spindletop strike of 1901 and the regional oil boom in the decades that followed Municipal governments sought to ensure the safety of their citizens while still reaping lucrative economic benefits from local petroleum industry activities Drawing on historical antecedents such as fire protection engineering the cities of the Gulf South came to adopt voluntary consensual fire codes issued by insurance associations and standards organizations such as the National Board of Fire Underwriters the National Fire Protection Association and the Southern Standard Building Code Conference The culmination of such efforts was the creation of the International Fire Code an overarching fire protection guide that is widely used in the United States Mexico the Caribbean and Central America In devising ordinances Gulf South officials pursued the politics of risk management as they hammered out strategies to eliminate or mitigate the dangers associated with petroleum industries and to reduce the possible consequences of catastrophic oil explosions and fires Using an array of original sources including newspapers municipal records fire insurance documents and risk management literature McSwain demonstrates that Gulf South cities played a vital role in twentieth century modernization      *Current Catalog* National Library of Medicine (U.S.), 1970 First multi year cumulation covers six years 1965 70      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      *Principles of Object-Oriented Modeling and Simulation with Modelica 3.3* Peter

Fritzson,2015-01-06 Fritzson covers the Modelica language in impressive depth from the basic concepts such as cyber physical equation base object oriented system model and simulation while also incorporating over a hundred exercises and their solutions for a tutorial easy to read experience The only book with complete Modelica 3.3 coverage Over one hundred exercises and solutions Examines basic concepts such as cyber physical equation based object oriented system model and simulation

**Lightning Strikes** John F Wasik,2018-02-28 Seventy years after his death Nikola Tesla has become a rock star Lightning Strikes examines his complete life and legacy including Tesla's profound influence on everything from systems integration to drone warfare Engineers entrepreneurs and academics will find it invaluable not only for the never before published interviews and archives but also for the creative principles that visionaries like Larry Page and Elon Musk have used to build iconic brands and groundbreaking inventions The book also reveals why the government and business leaders wanted to shut down Tesla's bold experiments and how hundreds of his ideas are now being implemented globally including clean power robotics alternating current motors and wireless transmission of power and information As a bonus a free augmented reality app from Yetzer Studio allows you to scan beautiful full color illustrations in the book unlocking an interactive 3D animation as well as videos honoring Tesla's life and legacy

**Computer Arithmetic** Earl E Swartzlander,2015-03-17 This is the new edition of the classic book Computer Arithmetic in three volumes published originally in 1990 by IEEE Computer Society Press As in the original the book contains many classic papers treating advanced concepts in computer arithmetic which is very suitable as stand alone textbooks or complementary materials to textbooks on computer arithmetic for graduate students and research professionals interested in the field Told in the words of the initial developers this book conveys the excitement of the creators and the implementations provide insight into the details necessary to realize real chips This second volume presents topics on error tolerant arithmetic digit on line arithmetic number systems and now in this new edition a topic on implementations of arithmetic operations all wrapped with an updated overview and a new introduction for each chapter This volume is part of a 3 volume set Computer Arithmetic Volume I Computer Arithmetic Volume II Computer Arithmetic Volume III The full set is available for sale in a print only version

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Two Sample Question Papers Crisp Revision with Concept Based Revision Notes Mind Maps Mnemonics Expert Tips helps you get expert knowledge master crack CDS in first attempt Exam insights with 5 Year wise 2019 2023 Trend Analysis empowering students to be 100% exam ready      **National Library of Medicine Current Catalog** National Library of Medicine (U.S.),1968      **Books in Series** ,1985 Vols for 1980 issued in three parts Series Authors and Titles      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

*Handbook of Systems Engineering and Risk Management in Control Systems, Communication, Space Technology, Missile, Security and Defense Operations* Anna M. Doro-on,2022-09-27 This book provides multifaceted components and full practical perspectives of systems engineering and risk management in security and defense operations with a focus on infrastructure and manpower control systems missile design space technology satellites intercontinental ballistic missiles and space security While there are many existing selections of systems engineering and risk management textbooks there is no existing work that connects systems engineering and risk management concepts to solidify its usability in the entire security and defense actions With this book Dr Anna M Doro on rectifies the current imbalance She provides a comprehensive overview of systems engineering and risk management before moving to deeper practical engineering principles integrated with newly developed concepts and examples based on industry and government methodologies The chapters also cover related points including design principles for defeating and deactivating improvised explosive devices and land mines and security measures against kinds of threats The book is designed for systems engineers in practice political risk professionals managers policy makers engineers in other engineering fields scientists decision makers in industry and government and to serve as a reference work in systems engineering and risk management courses with focus on security and defense operations      **The State of Conservation** Joshua Nygren,2025-01-06 In the twentieth century natural resource conservation emerged as a vital force in US politics laying the groundwork for present day sustainability Merging environmental agricultural and political history Joshua Nygren examines the political economy and ecology of agricultural

conservation through the lens of the conservation industrial complex This evolving public private network which united the US Department of Agriculture Congress local and national organizations and the agricultural industry guided soil and water conservation in rural America for much of the century Contrary to the classic tales of US environmental politics and the rise and fall of the New Deal Order this book emphasizes continuity Nygren demonstrates how the conservation policies programs and partnerships of the 1930s and 1940s persisted through the age of environmentalism and how their defining traits anticipated those typically associated with late twentieth century political culture The conservation industrial complex promoted a development oriented brand of conservation that aided the rise of large scale capital intensive agriculture which continues today It also reshaped the physical and political landscapes of the country leading to impressive conservation victories and spectacular failures by privileging some environments degrading others and intensifying farm depopulation In the name of environmental protection agricultural conservation made rural America less equal



## Reviewing **Physical Science Paper Memo 2015 June Examination**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Physical Science Paper Memo 2015 June Examination**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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1 the serpentine also known as the serpentine river is a 40 acre 16 ha recreational lake in hyde park london england created in 1730 at the behest of queen caroline although it is common to refer to the entire body of water as the serpentine strictly the name refers only to the eastern half of the lake

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jul 28 2023 what is serpentine serpentine is a mass of related minerals that commonly consist of chrysotile and antigorite serpentine is formed as a process called serpentinization where heat and water mixing with low silica igneous rocks such as peridotite and dunite through oxidation and hydrolization

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serpentinite is composed of one or more serpentine group minerals formed by hydration and low temperature metamorphic transformation of ultramafic rocks from platinum nickel chromium deposits 2017

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serpentine subgroup part of the kaolinite serpentine group in the category of phyllosilicates are greenish brownish or spotted minerals commonly found in serpentinite they are used as a source of magnesium and asbestos and as decorative stone

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aug 24 2023 the serpentine mineral chrysotile is common found in many parts of the world is easily mined and can be processed to recover the heat resistant fibers attractive serpentine can be cut into a wide variety of gemstones it is most often cut into cabochons some varieties of serpentine can be carved into beautiful stone sculptures

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serpentine is a large mineral group with hydrous magnesium iron silicate that forms from the serpentinization of rocks like peridotite and olivine as a silicate crystal it forms many varieties of green brown blue red black white pink orange and yellow colors with a greasy silky soapy or flaky texture

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serpentinization is a hydration and metamorphic transformation of ferromagnesian minerals such as olivine and pyroxene in mafic and ultramafic rock to produce serpentinite 1 minerals formed by serpentinization include the serpentine group minerals antigorite lizardite chrysotile brucite talc ni fe alloys and magnetite

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of characteristic of or resembling a serpent as in form or movement having a winding course as a road sinuous shrewd wily or cunning noun a device on a harquebus lock for holding the

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serpentinite is a rock composed predominantly of one or more serpentine group minerals the name originating from the

similarity of the texture of the rock to that of the skin of a snake serpentinite has been called serpentine or serpentine rock particularly in older geological texts and in wider cultural settings

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the serpentine crystal stone protects the heart with its powerful snake medicine a strong force that helps give you an overall energy detox like a refreshing and nutritious green drink for the soul the serpentine crystal is like spring cleaning for the soul

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serpentine any of a group of hydrous magnesium rich silicate minerals the composition of these common rock forming minerals approximates  $\text{Mg}_3\text{Si}_2\text{O}_5(\text{OH})_4$  serpentine generally occurs in three polymorphs chrysotile a fibrous variety used as asbestos antigorite a variety occurring in either

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oct 6 2023 the terminology serpentine is a rock made of the minerals serpentinite and it is a clue that you are looking very clearly at rocks that have been beneath the earth serpentine is found when ultramafic rocks come closer to the surface of

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serpentine is the name given to a subgroup of magnesium asbestos and silicate minerals formed in serpentinite rock it commonly crystallizes in the forms of masses fibrous grains and flat like plates the colors can vary from light and dark greens to brown yellow white and grey

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detailed description properties locality information guide about the serpentine mineral group including antigorite chrysotile asbestos minerals net complete information guide to rocks minerals gemstones

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serpentine is a group of minerals that are usually green in color it is used as gemstone architectural stone carving material and source of asbestos serpentinite is a rock composed mainly of serpentine minerals

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nov 3 2022 three types of serpentine minerals occur naturally antigorite lizardite and chrysotile the latter also known as a form of asbestos

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a snake moves by curving and winding along the ground roads through the pyrenees the mountains that separate spain from france tend to be serpentine curving back and forth on

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ılan gibi kıvrılarak gerçekleştirilen bir grup dansı İngilizce türkçe online sözlük tureng kelime ve terimleri çevir ve farklı aksanlarda sesli dinleme serpentine yılan taşı serpentine belt serpantin kayış serpentine ne demek

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serpentine curve a mathematical curve serpentine a type of riding figure science and nature serpentine subgroup a group of minerals serpentinite a type of rock serpentine soil soil derived from serpentinite serpentine alkaloid a chemical compound serpentine receptor a protein in cellular membranes serpentine powder a type of

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