

PHYSICAL SCIENCES

PAPER 1

MAY-JUNE

MEMO

2025



Figure 1 is a circuit diagram used for Question 1. The voltmeter is connected in parallel with the battery.

1.1 (4 marks)
State the meaning of potential difference across a component.
Answer: The difference in potential energy per unit charge between two points in the circuit.



- 2.1 (2 marks)
2.2 (2 marks)



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Physical Science Paper 1 Memo 2015 June Examination

Brendan Thomas-Noone



Physical Science Paper 1 Memo 2015 June Examination:

The Chile-2015 (Illapel) Earthquake and Tsunami Carla Braitenberg, Alexander B. Rabinovich, 2017-05-20 This volume presents a collection of contributions that were published in Pure and Applied Geophysics pageoph and which deals with the major earthquake that hit Illapel Chile on September 16 2015 with magnitude 8.3 and associated trans oceanic tsunami The subducting Nazca plate beneath the Andes caused this major earthquake generating strong shaking permanent deformation free oscillations of the Earth and tsunamis This event occurred in the flat angle subducting segment of the plate The generated tsunami spread throughout the entire Pacific Ocean and was recorded by numerous coastal tide gauges and open ocean DART stations All articles give an up to date account of research in one of the most active seismic zones worldwide An introductory article by Kenji Satake rounds this collection off

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

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 *Subject Index to Unclassified ASTIA Documents* Defense Documentation Center (U.S.),1960 *Collision of Power* Martin Baron,2023-10-03 A closely observed gripping chronicle of politics and journalism during a decade of turmoil The New York Times Book Review Politics Money Media Tech It s all here in *Collision of Power* All the President s Men for a new generation Town Country Marty Baron took charge of The Washington Postnewsroom in 2013 after nearly a dozen years leading The Boston Globe Just seven months into his new job Baron received explosive news Jeff Bezos the founder of Amazon would buy the Post marking a sudden end to control by the venerated family that had presided over the paper for 80 years Just over two years later Donald Trump won the presidency Now the capital s newspaper owned by one of the world s richest men was tasked with reporting on a president who had campaigned against the press as the lowest form of humanity Pressures on Baron and his colleagues were immense and unrelenting having to meet the demands of their new owner while contending with a president who waged a war of unprecedented vitriol and vengeance against the media In the face of Trump s unceasing attacks Baron steadfastly managed the Post s newsroom Their groundbreaking and award winning coverage included stories about Trump s purported charitable giving misconduct by the Secret Service and Roy Moore s troubling sexual history At the same time Baron managed a restive staff during a period of rapidly changing societal dynamics around gender and race In *Collision of Power* Baron recounts this with the tenacity of a reporter and the sure hand of an experienced editor The result is elegant and revelatory an urgent exploration of the nature of power in the 21st century [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 *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

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 **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 Current Catalog National Library of Medicine (U.S.),1970 First multi year cumulation covers six years 1965 70 *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 Trinity test and the bombings of Hiroshima and Nagasaki all 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 **The 2015 Regional Forecast and Urban Development Patterns** Sonny Conder,1964 Atomic Bill Vincent Kiernan,2022-11-15 In Atomic Bill Vincent Kiernan examines the fraught career of New York Times science journalist William L Laurence and shows his professional and personal lives to be a cautionary tale of dangerous proximity to power Laurence was fascinated with atomic science and its militarization When the Manhattan Project drew near to perfecting the atomic bomb he was recruited to write much of the government's press materials that were distributed on the day that Hiroshima was obliterated That instantly crowned Laurence as one of the leading journalistic experts on the atomic bomb As the Cold War dawned some assessed Laurence as a propagandist defending the militarization of atomic energy For others he was a skilled science communicator who provided the public with a deep understanding of the atomic bomb Laurence leveraged his perch at the Times to engage in paid speechmaking book writing filmmaking and radio broadcasting His work for the Times declined in quality even as his relationships with people in power grew closer and more lucrative Atomic Bill reveals

extraordinary ethical lapses by Laurence such as a cheating scandal at Harvard University and plagiarizing from press releases about atomic bomb tests in the Pacific In 1963 a conflict of interest related to the 1964 World's Fair in New York City led to his forced retirement from the Times Kiernan shows Laurence to have set the trend common among today's journalists of science and technology to prioritize gee whizz coverage of discoveries That approach in which Laurence served the interests of governmental official and scientists recommends a full revision of our understanding of the dawn of the atomic era

Greedy Science Michael D. Gordin, W. Patrick McCray, 2025-02-18 The authors in this edited collection of essays explore this particular attribute greed by looking how it informed intersected and interlaced with science and technology and scientists and technologists during the 1980s During this decade greed although undeniably present in earlier eras became an extensive expansive and at times explicit characteristic of science both in the United States and around the world 3 The global scientific community was reshaped in a multitude of ways large and small by money fame and the pursuit of celebrity

Radar in Meteorology David Atlas, 2015-03-30 This fully illustrated volume covers the history of radar meteorology deals with the issues in the field from both the operational and the scientific viewpoint and looks ahead to future issues and how they will affect the current atmosphere With over 200 contributors the volume is a product of the entire community and represents an unprecedented compendium of knowledge in the field

National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1968

Mapping the Third Offset: Australia, the United States and Future War in the Indo-Pacific Brendan Thomas-Noone, 2017-12-05 The United States is facing multiple challenges to sustaining its military technological edge in the Indo Pacific The proliferation of advanced missiles submarines satellites and other technology has raised the costs and risks for the United States in a regional conflict Access to advanced technology and innovation has spread raising the importance of the private sector in maintaining military superiority but also generating new centres of technological progress The United States current defence strategy and capabilities are increasingly economically unsustainable and its defence budget is stagnating due to political polarisation in Congress The Third Offset is a set of strategies that aims to bolster US conventional military power by mobilising innovation new technologies and institutional reform The United States is placing bets on a series of new technologies from artificial intelligence to hypersonic weapons that will allow its military to project force in contested environments Some of these technologies will in theory allow for more economically sustainable military operations and capabilities Reforming US defence institutions to prioritise innovation and seeking ways to take advantage of new technologies in the private sector are attempts to embed and sustain US military advantage The direction of the Third Offset and its success or failure should inform Australia's strategic outlook Canberra should seek to expand engagement with the Third Offset particularly through the following institutional aspects A United States Australia Defence Technology Workshop should be established to generate new ideas around Indo Pacific technological trends investment and new military concepts Canberra should explore the possibility of hosting or jointly

funding an international Defence Innovation Unit Experimental Office providing strategic coordination on technological developments resourcing and opportunities for Australian defence firms Australia needs to expand its engagement with the United States on the testing exercises and simulations that will form new Third Offset military concepts Air Show Performers Manolis Karachalios, Daniel Kwasi Adjekum, 2023-12-07 Air shows are high risk activities that must be conducted with careful thought towards the general public spectators and flying and nonflying participants to ensure that the activity is as safe as reasonably possible The impromptu ad hoc unrehearsed or unplanned must never be attempted This book offers a holistic overview of the state of safety including safety cultural variables safety risk parameters and human performance factors in the international air show community This book aims to close the knowledge gap on safety management in air shows It imparts to the aviation sector and other high risk and high performance industries the experience and knowledge that airshow performers have gained regarding risk assessment psychological aspects and mindfulness techniques used for safe and effective performances The book highlights how resilient safety culture can change the air show community's mentality to deliver safer and more spectacular air show events and promotes the culture of excellence that the air show community is wedded to The reader will obtain a thorough understanding of safety issues in air shows Air Show Performers Safety Risk Management and Psychological Factors is a critical read for professionals within the international air show community including nonflying participants Its appeal extends to practitioners in aviation health and safety and events management For sure this book will become a reference and a source of inspiration for future generations of Display Pilots Jacques Bothelin French Aerobatic Jet Team Leader Honorary Board Member European Airshow Council Manolis Karachalios was the Hellenic Air Force's F 16 Demo Team ZEUS Display Pilot for the 2010 2012 display seasons Dr Karachalios holds a Master of Business Administration MBA in Aviation Management from Coventry University and a Doctor of Philosophy PhD in Aerospace Sciences from the University of North Dakota focusing on air show safety and development Daniel Kwasi Adjekum has over 25 years of experience in aviation as a former Ghana Air Force squadron commander command pilot and air display safety director He was also an airline pilot and is currently an aviation safety consultant and professor of aviation He is an Internationally recognized aviation safety subject matter expert and an International Air Transport Association IATA certified Safety Management Systems SMS implementation and control expert **Oswaal CDS Question Bank | Previous Years Solved Question Papers Chapter-Wise & Topic-Wise General Knowledge (2014-2023) For 2024 Exam** Oswaal Editorial Board, 2024-01-19 Description of the product 100% updated with Fully Solved April September 2023 Papers Concept Clarity with detailed explanations of 2014 to 2023 Papers Extensive Practice with 1200 Questions and 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 **CRREL Technical Publications, 1950-1975** Cold Regions Research and Engineering

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