

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



- 1.1 (1 mark)  
1.2 (2 marks)



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# Physical Science Paper 1 Memo 2015 June Examination

**Jane Johnston, Lindy Nahmad-  
Williams, Ruby Oates, Val Wood**



## **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 *Early Childhood Studies* Jane Johnston,Lindy Nahmad-Williams,Ruby Oates,Val Wood,2018-02-16 This fully updated new edition offers a comprehensive accessible yet rigorous introduction to the study of Early Childhood that will add value to any Early Childhood Studies course at both foundation and degree level Addressing both care and education in the Early Years the book considers a range of multi disciplinary aspects of Early Childhood including health social educational psychological and sociological perspectives Early Childhood Studies engages the reader by providing real world examples that underpin theoretical perspectives and bring examples to life while encouraging practitioners to engage in reflective practice by considering their own similar experiences Key features include Engaging activities and case studies that bring theory to life Cutting edge research Practical tasks and advice with points for further reading End of chapter summaries Reflective Tasks and Study Skills boxes in each chapter Full colour illustrations throughout This core introductory textbook is an indispensable resource for Early Years students and professionals whatever their level of expertise or experience **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 **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 **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

**The 2015 Regional Forecast and Urban Development Patterns** Sonny Conder, 1964

**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



regime     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 whiz 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     Government Reports Announcements & Index ,1989-05     *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

**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



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biaya pekerjaan yang didapat dari volume dikalikan dengan harga satuan pekerjaan tersebut tabel 3 rekapitulasi perhitungan pekerjaan dinding no jenis material total biaya pekerjaan dinding 1 bata merah rp 430 990 824 00

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web cara menghitung kebutuhan semen dan pasir pada pasangan batako dengan campuran 1 pc 6 pp batako yang digunakan adalah yang memiliki ukuran 10 x 20 x 40 cm dalam mengerjakan dinding seluas 1 m<sup>2</sup> yang sesuai dengan kebutuhan lapangan maka material semen pc yang dibutuhkan adalah 1 74 kg serta pasir pp 0 0086 m<sup>3</sup>

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web luas tembok 44 8 2 3 0 96 41 54 m<sup>2</sup> setelah mendapatkan total volume pekerjaannya maka cara menghitung biaya pemasangan batako selanjutnya yaitu mengalikan luas tembok dengan harga per meter persegi di atas biaya pasang batako luas tembok x harga per meter biaya pasang batako 41 54 m<sup>2</sup> x rp 106 497 rp

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web bahwa analisa harga satuan pekerjaan dinding menggunakan bata merah yaitu rp 59 502 00 dengan waktu pemasangan dinding per m<sup>2</sup> 00 28 42 menit plesteran 00 27 40 menit dan pemasangan untuk teras 00 26 25 menit sedangkan untuk batako rp 65 764 00 dengan waktu pemasangan dinding per m<sup>2</sup> pemasangan untuk teras 00 20 23

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web biaya pasang batako 41 54 m<sup>2</sup> x rp 106 497 rp 4 423 885 cara menghitung biaya pemasangan tembok batako arsitur

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web pada saat proses pemasangan dinding dan mempercepat pelaksanaan ukuran batako standar menurut sni 03 0349 1989 adalah sebagai berikut tabel 3 3 tabel 3 3 ukuran batako standar kelebihan dinding batako press dibandingkan dengan batu bata pembuatan mudah dan ukuran dapat dibuat sama ukuran yang besar membuat waktu

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web dec 16 2021 total dari biaya yang dikeluarkan untuk pemasangan batako per meter yaitu jumlah dari total biaya material dan jenis pekerja sebesar rp64 897 rp41 600 rp106 497

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web dec 16 2021 berikut ini merupakan contoh daftar analisa harga satuan memasang 1 m<sup>2</sup> dinding bata merah dengan

ketebalan  $\frac{1}{2}$  bata pasangan ketebalan  $\frac{1}{2}$  bata campuran spesi 1pc 2pp pasangan ketebalan  $\frac{1}{2}$  bata campuran spesi 1pc 3pp pasangan ketebalan  $\frac{1}{2}$  bata campuran spesi 1pc 4pp pasangan ketebalan  $\frac{1}{2}$  bata campuran

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web nov 1 2022 kebutuhan material batako dipasang rebah 1 m<sup>2</sup> 0 0361 m<sup>2</sup> 27 70 buah dibulatkan menjadi 28 buah m<sup>2</sup> pasangan batako secara tegak maka luas penampang untuk 1 batako ditambah tebal adukan spesi adalah 0 17 0 02 x 0 36 0 02 0 0722 m<sup>2</sup> kebutuhan material batako dipasang tegak 1 m<sup>2</sup> 0 0722 m<sup>2</sup> 13 85 buah

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web sep 3 2019 biaya tembok 41 54 m<sup>2</sup> x rp 196 499 60 m<sup>2</sup> biaya tembok 8 162 593 38 atau dibulatkan menjadi rp 8 200 000 00 termasuk biaya air dan lain lain perlu diketahui bahwa biasa pemasangan tembok bata lebih besar daripada batako namun dari segi ketahanan tembok bata lebih kuat dan tahan lama

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web nov 5 2012 dinding batako bisa menjadi alternatif untuk membuat rumah tembok jenis material batu buatan ini banyak digunakan karena kecepatan dalam waktu pemasangan serta dapat lebih menghemat penggunaan adukan jika dibanding pasangan dinding batu bata disini kita akan coba menguraikan cara menghitung jumlah kebutuhan batako

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web jun 6 2021 analisa harga satuan pekerjaan dinding june 06 2021 post a comment no uraian satuan koef harga satuan rp sub jumlah rp jumlah rp pekerjaan dinding 1 1 m<sup>2</sup> pasangan dinding bata merah kelas 1 uk 5x11x22 cm tebal 1 bata campuran spesi 1pc 2pp bahan bata merah kelas 1 pc pp

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web jun 9 2020 biaya tembok luas tembok x harga per meter biaya tembok 41 54 m<sup>2</sup> x rp 117 146 70 m<sup>2</sup> biaya tembok 4 866 273 92 atau dibulatkan menjadi rp 4 900 000 00 termasuk biaya air dan lain lain demikianlah mengenai cara menghitung biaya pasangan tembok batako semoga bermanfaat dan dapat menambah wawasan

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web jun 1 2018 tabel 6 ahsp pemasangan 1m conblock hb 10 campu no uraian satuan koefisien harga satuan biaya a tenaga 1 pekerja oh 0 3 rp 50 00 0 rp 1 4 61 900 2 tukang batu oh 0 1 rp 65 000 rp 633 490 3

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web satuan pasir pasang  $\text{m}^3$  0 520 203 000 00 pekerja org 1 500 tukang batu org 0 750 kepala tukang org 0 075 mandor org 0 075 total harga 8 1  $\text{m}^2$  pasangan dinding batako batu bata bh 25 000 2 500 00 semen pc zak 0 230 85 000 00 pasir pasang  $\text{m}^3$  0 043 203 000 00 pekerja org 0 300 tukang org 0 100 kepala tukang org 0 010