

# PHYSICAL SCIENCES

## PAPER 1

## MAY-JUNE

## MEMO

# 2025

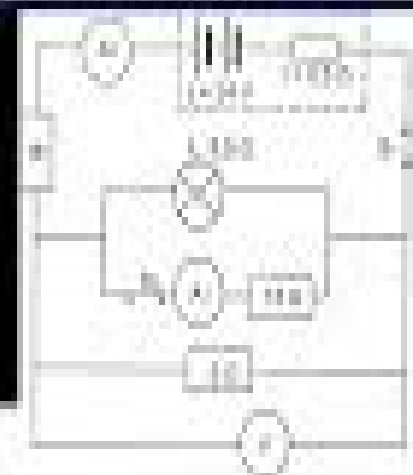
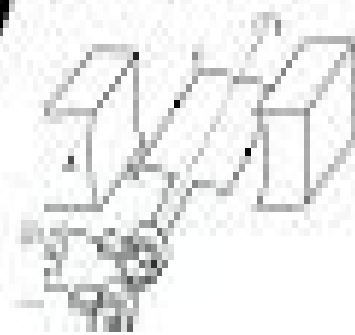


Figure 6 is already drawn and E, the EMF (V) is equal to the voltage of the battery.

1. (1 mark each)  
State the meaning implied by each of the components.  
Answer these from 6.1 to 6.4 in the way that the unit is stated.  
Show your calculations.



- 1.1 Draw a free-body diagram.  
1.2 Give a detailed formulaic representation of the beam in equilibrium.



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# Physical Sciences Paper 1 June 2014 Memorandum

**S Marginson**



## **Physical Sciences Paper 1 June 2014 Memorandum:**

*Freedom's Laboratory* Audra J. Wolfe, 2020-08-04 The Cold War ended long ago but the language of science and freedom continues to shape public debates over the relationship between science and politics in the United States Scientists like to proclaim that science knows no borders Scientific researchers follow the evidence where it leads their conclusions free of prejudice or ideology But is that really the case In *Freedom's Laboratory* Audra J Wolfe shows how these ideas were tested to their limits in the high stakes propaganda battles of the Cold War Wolfe examines the role that scientists in concert with administrators and policymakers played in American cultural diplomacy after World War II During this period the engines of US propaganda promoted a vision of science that highlighted empiricism objectivity a commitment to pure research and internationalism Working both overtly and covertly wittingly and unwittingly with governmental and private organizations scientists attempted to decide what exactly they meant when they referred to scientific freedom or the US ideology More frequently however they defined American science merely as the opposite of Communist science Uncovering many startling episodes of the close relationship between the US government and private scientific groups *Freedom's Laboratory* is the first work to explore science's link to US propaganda and psychological warfare campaigns during the Cold War Closing in the present day with a discussion of the 2017 March for Science and the prospects for science and science diplomacy in the Trump era the book demonstrates the continued hold of Cold War thinking on ideas about science and politics in the United States

**This Changes Everything** Naomi Klein, 2014-09-16 The most important book yet from the author of the international bestseller *The Shock Doctrine* a brilliant explanation of why the climate crisis challenges us to abandon the core free market ideology of our time restructure the global economy and remake our political systems In short either we embrace radical change ourselves or radical changes will be visited upon our physical world The status quo is no longer an option In *This Changes Everything* Naomi Klein argues that climate change isn't just another issue to be neatly filed between taxes and health care It's an alarm that calls us to fix an economic system that is already failing us in many ways Klein meticulously builds the case for how massively reducing our greenhouse emissions is our best chance to simultaneously reduce gaping inequalities reimagine our broken democracies and rebuild our gutted local economies She exposes the ideological desperation of the climate change deniers the messianic delusions of the would-be geoengineers and the tragic defeatism of too many mainstream green initiatives And she demonstrates precisely why the market has not and cannot fix the climate crisis but will instead make things worse with ever more extreme and ecologically damaging extraction methods accompanied by rampant disaster capitalism Klein argues that the changes to our relationship with nature and one another that are required to respond to the climate crisis humanely should not be viewed as grim penance but rather as a kind of gift a catalyst to transform broken economic and cultural priorities and to heal long festering historical wounds And she documents the inspiring movements that have already begun this process communities that are not just refusing to be sites

of further fossil fuel extraction but are building the next regeneration based economies right now Can we pull off these changes in time Nothing is certain Nothing except that climate change changes everything And for a very brief time the nature of that change is still up to us

**Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions** National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Mathematical Sciences and Their Applications, Committee on Applied and Theoretical Statistics, Committee on Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions, 2017-02-06 The Office of the Under Secretary of Defense Personnel Readiness referred to throughout this report as P R is responsible for the total force management of all Department of Defense DoD components including the recruitment readiness and retention of personnel Its work and policies are supported by a number of organizations both within DoD including the Defense Manpower Data Center DMDC and externally including the federally funded research and development centers FFRDCs that work for DoD P R must be able to answer questions for the Secretary of Defense such as how to recruit people with an aptitude for and interest in various specialties and along particular career tracks and how to assess on an ongoing basis service members career satisfaction and their ability to meet new challenges P R must also address larger scale questions such as how the current realignment of forces to the Asia Pacific area and other regions will affect recruitment readiness and retention While DoD makes use of large scale data and mathematical analysis in intelligence surveillance reconnaissance and elsewhere exploiting techniques such as complex network analysis machine learning streaming social media analysis and anomaly detection these skills and capabilities have not been applied as well to the personnel and readiness enterprise

**Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions** offers and roadmap and implementation plan for the integration of data analysis in support of decisions within the purview of P R

**Technological Innovation in Legacy Sectors** William B. Bonvillian, Charles Weiss, 2015-08-18 The American economy misses opportunities for innovation growth and job creation because of a neglected problem the resistance to innovation from Legacy sectors like energy manufacturing and health care which constitute most of our economy The book offers systematic strategies to overcome the structural obstacles to innovation in critically important Legacy sectors

**Across Space and Time** Arianna Triviglia, 2025-10-01 This volume presents a selection of the best papers presented at the forty first annual Conference on Computer Applications and Quantitative Methods in Archaeology The theme for the conference was Across Space and Time and the papers explore a multitude of topics related to that concept including databases the semantic Web geographical information systems data collection and management and more

**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

### **On Non-Generic Finite Subgroups of Exceptional Algebraic Groups**

Alastair J. Litterick,2018-05-29 The study of finite subgroups of a simple algebraic group  $G$  reduces in a sense to those which are almost simple If an almost simple subgroup of  $G$  has a socle which is not isomorphic to a group of Lie type in the underlying characteristic of  $G$  then the subgroup is called non generic This paper considers non generic subgroups of simple algebraic groups of exceptional type in arbitrary characteristic

### **The Complete Book of Colleges, 2017 Edition**

Princeton Review,2016-07 The MEGA GUIDE to 1 355 COLLEGES AND UNIVERSITIES No one knows colleges better than The Princeton Review Inside The Complete Book of Colleges 2017 Edition you ll find meticulously researched information that will help you narrow the search for the best college for you Each of the 1 355 user friendly profiles answers your questions including How much are tuition and other student fees and costs What types of financial aid are available and when are the applications due What do admissions officers most look for in test scores and recommendations Which majors are the most popular and have the highest enrollment What is the housing like and how accessible is technology on campus What are the key campus organizations athletics and student activities How selective is the school Plus Indexes based on cost selectivity and size that will help you narrow your search Get a leg up on your college search with this easy to use comprehensive and savvy guidebook from the experts at The Princeton Review

### ***The Path to 5G in the Developing World***

World Bank,2024-06-25 The global race for implementing 5G mobile technologies has seen countries riding a new wave of wireless technologies 5G the next generation of mobile technologies can enable a significantly higher level of performance over 4G mobile communications providing a new layer of connectivity to support innovative data intensive applications With the estimated impact of 5G on global gross domestic product to be in the trillions of US dollars 5G s deployment will drive innovation job creation worker productivity and competitiveness across various sectors Several use cases are already being tested and deployment is under way in many countries For some countries 5G may seem a distant future prospect given the costs of infrastructure deployment and the need for expensive handsets for other countries 5G is an on ramp to Industry 4 0 and has been folded into national strategy planning 5G trials pilots and commercial deployments have been progressing around the world but most deployments are in higher income countries Significant barriers remain for developing countries many of which pertain to the challenges faced by the broader telecommunications sector and all of which threaten to further

widen the digital divide and limit access to the economic opportunities that 5G connectivity enables What does this reality mean for developing countries and how can national governments prepare The Path to 5G in the Developing World Planning Ahead for a Smooth Transition surveys the technical capabilities of 5G and explores how countries can reach connectivity goals by using 5G as a layer of connectivity along with 4G and other technologies This report also provides a guide for policy makers to better understand the opportunities challenges and risks posed by 5G so that they can plan for a policy and regulatory ecosystem that supports the path to advanced mobile network deployment access and adoption Australia and the Bomb C. Leah,2014-12-03 This book is a historical and strategic analysis of the nuclear dimension of the US alliance with Australia Australia s relationship with nuclear weapons nuclear strategy and US extended nuclear deterrence

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 *Strategies for Natural Language Processing* W. G. Lehnert,M. H. Ringle,2014-04-04 First published in 1982 Simply defined the field of natural language processing is concerned with theories and techniques that address the problem of natural language communication with computers One of the goals of this research is to design computer programs that will allow people to interact with computers in natural conversational dialogues The Oxford Handbook of Nuclear Security ,2024-05-28 The Oxford Handbook of Nuclear Security provides a comprehensive examination of efforts to secure sensitive nuclear assets and mitigate the risk of nuclear terrorism and other non state actor threats It aims to provide the reader with a holistic understanding of nuclear security through exploring its legal political and technical dimensions at the international national and organizational levels Recognizing there is no one size fits all approach to nuclear security the book explores fundamental elements and concepts in practice through a number

of case studies which showcase how and why national and organizational approaches have diverged Although focused on critiquing past and current activities unexplored yet crucial aspects of nuclear security are also considered and how gaps in international efforts might be filled Contributors to the handbook are drawn from a variety of different disciplinary backgrounds and experiences to provide a wide range of perspectives on nuclear security issues and move beyond the Western narratives that have tended to dominate the debate These include scholars from both developed and developing nuclear countries as well as practitioners working in the field of nuclear security in an effort to bridge the gap between theory and practice

Low Temperature Properties of Selected Materials Dorothea M. Johnson, 1977 This report is a bibliography of the work reported in the literature on the effects of low temperature on the properties of structural materials Some of the newer areas of cryogenic technology such as superconducting machinery involve environments which may subject the components to temperature as low as 4 K Exposure of structural materials to such low temperatures affects their properties This bibliography contains 963 references published between 1950 1976 arranged in chronological alphabetical order Combined material property indexes are provided Author

**Environmental Risk Assessment** Ted Simon, 2014-02-05 The purpose of risk assessment is to support science based decisions about how to solve complex societal problems The problems we face in the twenty first century have many social political and technical complexities Environmental risk assessment in particular is of increasing importance as a means of seeking to address the potential effects of

Beyond Control James F. Barnett Jr., 2017-03-16 Beyond Control reveals the Mississippi as a waterway of change unnaturally confined by ever larger levees and control structures During the great flood of 1973 the current scoured a hole beneath the main structure near Baton Rouge and enlarged a pre existing football field size crater That night the Mississippi River nearly changed its course for a shorter and steeper path to the sea Such a map changing reconfiguration of the country s largest river would bear national significance as well as disastrous consequences for New Orleans and towns like Morgan City at the mouth of the Atchafalaya River Since 1973 the US Army Corps of Engineers Control Complex at Old River has kept the Mississippi from jumping out of its historic channel and plunging through the Atchafalaya Basin to the Gulf of Mexico Beyond Control traces the history of this phenomenon beginning with a major channel shift around 3 000 years ago By the time European colonists began to explore the Lower Mississippi Valley a unique confluence of waterways had formed where the Red River joined the Mississippi and the Atchafalaya River flowed out into the Atchafalaya Basin A series of human alterations to this potentially volatile web of rivers starting with a bend cutoff in 1831 by Captain Henry Miller Shreve set the forces in motion for the Mississippi s move into the Atchafalaya Basin Told against the backdrop of the Lower Mississippi River s impending diversion the book s chapters chronicle historic floods rising flood crests a changing strategy for flood protection and competing interests in the management of the Old River outlet Beyond Control is both a history and a close look at an inexorable living process happening now in the twenty first century

*Half-Life* Frank

Close,2015-02-03 It was at the height of the Cold War in the summer of 1950 when Bruno Pontecorvo mysteriously vanished behind the Iron Curtain Who was he and what caused him to disappear Was he simply a physicist or also a spy and communist radical A protege of Enrico Fermi Pontecorvo was one of the most promising nuclear physicists in the world He spent years hunting for the Higgs boson of his day the neutrino a nearly massless particle thought to be essential to the process of particle decay His work on the Manhattan Project helped to usher in the nuclear age and confirmed his reputation as a brilliant physicist Why then would he disappear as he stood on the cusp of true greatness perhaps even the Nobel Prize In *Half Life* physicist and historian Frank Close offers a heretofore untold history of Pontecorvo's life based on unprecedented access to Pontecorvo's friends and family and the Russian scientists with whom he would later work Close takes a microscope to Pontecorvo's life combining a thorough biography of one of the most important scientists of the twentieth century with the drama of Cold War espionage With all the elements of a Cold War thriller classified atomic research an infamous double agent a possible kidnapping by Soviet operatives *Half Life* is a history of nuclear physics at perhaps its most powerful when it created the bomb

*Modeling and Simulation Support for System of Systems Engineering Applications* Larry B. Rainey,Andreas Tolk,2015-01-05 a much needed handbook with contributions from well chosen practitioners A primary accomplishment is to provide guidance for those involved in modeling and simulation in support of Systems of Systems development more particularly guidance that draws on well conceived academic research to define concepts and terms that identifies primary challenges for developers and that suggests fruitful approaches grounded in theory and successful examples Paul Davis The RAND Corporation *Modeling and Simulation Support for System of Systems Engineering Applications* provides a comprehensive overview of the underlying theory methods and solutions in modeling and simulation support for system of systems engineering Highlighting plentiful multidisciplinary applications of modeling and simulation the book uniquely addresses the criteria and challenges found within the field Beginning with a foundation of concepts terms and categories a theoretical and generalized approach to system of systems engineering is introduced and real world applications via case studies and examples are presented A unified approach is maintained in an effort to understand the complexity of a single system as well as the context among other proximate systems In addition the book features Cutting edge coverage of modeling and simulation within the field of system of systems including transportation system health management space mission analysis systems engineering methodology and energy State of the art advances within multiple domains to instantiate theoretic insights applicable methods and lessons learned from real world applications of modeling and simulation The challenges of system of systems engineering using a systematic and holistic approach Key concepts terms and activities to provide a comprehensive unified and concise representation of the field A collection of chapters written by over 40 recognized international experts from academia government and industry A research agenda derived from the contribution of



experts that guides scholars and researchers towards open questions Modeling and Simulation Support for System of Systems Engineering Applications is an ideal reference and resource for academics and practitioners in operations research engineering statistics mathematics modeling and simulation and computer science The book is also an excellent course book for graduate and PhD level courses in modeling and simulation engineering and computer science Unwinnable Theo Farrell,2017-09-07 Afghanistan was an unwinnable war As British and American troops withdraw discover this definitive account that explains why It could have been a very different story British forces could have successfully withdrawn from Afghanistan in 2002 having done the job they set out to do to defeat al Qaeda Instead in the years that followed Britain paid a devastating price for their presence in Helmand province So why did Britain enter and remain in an ill fated war Why did it fail so dramatically and was this expedition doomed from the beginning Drawing on unprecedented access to military reports government documents and senior individuals Professor Theo Farrell provides an extraordinary work of scholarship He explains the origins of the war details the campaigns over the subsequent years and examines the West's failure to understand the dynamics of local conflict and learn the lessons of history that ultimately led to devastating costs and repercussions still relevant today The best book so far on Britain's war in Afghanistan International Affairs Masterful irrefutable Farrell records all these military encounters with the irresistible pace of a novelist Sunday Times

**Information—Consciousness—Reality** James B. Glattfelder,2019-04-10 This open access book chronicles the rise of a new scientific paradigm offering novel insights into the age old enigmas of existence Over 300 years ago the human mind discovered the machine code of reality mathematics By utilizing abstract thought systems humans began to decode the workings of the cosmos From this understanding the current scientific paradigm emerged ultimately discovering the gift of technology Today however our island of knowledge is surrounded by ever longer shores of ignorance Science appears to have hit a dead end when confronted with the nature of reality and consciousness In this fascinating and accessible volume James Glattfelder explores a radical paradigm shift uncovering the ontology of reality It is found to be information theoretic and participatory yielding a computational and programmable universe

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