

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 terms. (4 marks)



- 1.1 (4 marks)
State the meaning implied by each of the components shown above. Give 2 marks for each of the 4 terms. (4 marks)
- 1.2 (4 marks)
Calculate the value of the force F required to keep the beam in equilibrium.



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Physical Sciences Paper 1 June 2014 Memorandum

Thomas L., Saaty ,Joseph, Bram



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

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

This Changes Everything Naomi Klein, 2014-09-16 With strong first hand reporting and an original provocative thesis Naomi Klein returns with this book on how the climate crisis must spur transformational political change

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 Traviglia, 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

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

Language, Life, Limits Arnold Beckmann, Ersébet Csuhaj-Varjú, Klaus Meer, 2014-06-05 This book constitutes the refereed proceedings of the 10th Conference on Computability in Europe CiE 2014 held in Budapest Hungary in June 2014 The 42 revised papers presented were carefully reviewed and selected from 78 submissions and included together with 15 invited papers in this proceedings The conference had six special sessions computational linguistics bio inspired computation history and philosophy of computing computability theory online algorithms and complexity in automata theory

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

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. Physics at perhaps its most powerful when it created the bomb.

Indigenous Peoples' Governance of Land and Protected Territories in the Arctic Thora Martina Herrmann, Thibault Martin, 2015-12-22 This book addresses critical questions and analyses key issues regarding Indigenous Aboriginal Peoples and governance of land and protected areas in the Arctic. It brings together contributions from scientists, indigenous and non-indigenous researchers, local leaders and members of the policy community that document Indigenous Aboriginal approaches to governance of land and protected areas at the local, regional and international level. It explores new territorial governance models that are emerging as part of the Indigenous Aboriginal governance within Arctic States, provinces, territories and regions, analyses the recognition or lack thereof concerning indigenous rights to self-determination in the Arctic and examines how traditional decision-making arrangements and practices can be linked with governments in the process of good governance. The book highlights essential lessons learned, success stories and remaining issues, all of which are useful to address issues of Arctic governance of land and protected areas today and which could also be relevant for future governance arrangements.

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 **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 **Assembling Bus Rapid Transit in the Global South** Malve Jacobsen, 2020-12-13 This book explores the

mobile ethnography of Dar es Salaam where consultants and politicians have planned and implemented a bus rapid transit BRT system for two decades It analyses the dual processes of assembling BRT in the Tanzanian metropolis and establishing BRT as a policy model of and for the Global South The book elucidates how policy models are constructed and circulated around the globe and depicts the processes by which they are translated between and materialise within specific contexts It presents the case of BRT to demonstrate how technocrats shape these processes through persuasive work aimed at disseminating and stabilising this transport model and how local actors influence its adaptation in Dar es Salaam The book adopts a double mobility approach to show how this ethnography follows travelling consultants circulating policies and moving buses to explore the fluidity of the BRT model Linking key debates in policy mobility studies and Science and Technology Studies enriched with postcolonial perspectives and geographies of transport and infrastructure it offers new insights into the technopolitics of planning and implementing infrastructure systems This book will appeal to academics and students of human geography transport studies science and technology studies and African and development studies interested in the technopolitics of transport planning *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

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

Spacecraft Dynamics and Control Enrico Canuto, Carlo Novara, Donato Carlucci, Carlos Perez-Montenegro, Luca Massotti, 2018-03-08 Spacecraft Dynamics and Control The Embedded Model Control Approach provides a uniform and systematic way of approaching space engineering control problems from the standpoint of model-based control using state-space equations as the key paradigm for simulation design and implementation The book introduces the Embedded Model Control methodology for the design and implementation of attitude and orbit control systems The logic architecture is organized around the embedded model of the spacecraft and its surrounding environment The model is compelled to include disturbance dynamics as a repository of the uncertainty that the control law must reject to meet attitude and orbit requirements within the uncertainty class The source of the real-time uncertainty estimation prediction is the model error signal as it encodes the residual discrepancies between spacecraft measurements and model output The embedded model and the uncertainty estimation feedback noise estimator in the book constitute the state predictor feeding the control law Asymptotic pole placement exploiting the asymptotes of closed-loop transfer functions is the way to design and tune feedback loops around the embedded model state predictor control law reference generator The

design versus the uncertainty class is driven by analytic stability and performance inequalities The method is applied to several attitude and orbit control problems The book begins with an extensive introduction to attitude geometry and algebra and ends with the core themes state space dynamics and Embedded Model Control Fundamentals of orbit attitude and environment dynamics are treated giving emphasis to state space formulation disturbance dynamics state feedback and prediction closed loop stability Sensors and actuators are treated giving emphasis to their dynamics and modelling of measurement errors Numerical tables are included and their data employed for numerical simulations Orbit and attitude control problems of the European GOCE mission are the inspiration of numerical exercises and simulations The suite of the attitude control modes of a GOCE like mission is designed and simulated around the so called mission state predictor Solved and unsolved exercises are included within the text and not separated at the end of chapters for better understanding training and application Simulated results and their graphical plots are developed through MATLAB Simulink code

Intersection Cohomology, Simplicial Blow-Up and Rational Homotopy David Chataur, Martintxo

Saralegi-Aranguren, Daniel Tanré, 2018-08-09 Let X be a pseudomanifold In this text the authors use a simplicial blow up to define a cochain complex whose cohomology with coefficients in a field is isomorphic to the intersection cohomology of X introduced by M Goresky and R MacPherson The authors do it simplicially in the setting of a filtered version of face sets also called simplicial sets without degeneracies in the sense of C P Rourke and B J Sanderson They define perverse local systems over filtered face sets and intersection cohomology with coefficients in a perverse local system In particular as announced above when X is a pseudomanifold the authors get a perverse local system of cochains quasi isomorphic to the intersection cochains of Goresky and MacPherson over a field We show also that these two complexes of cochains are quasi isomorphic to a filtered version of Sullivan's differential forms over the field $\mathbb{Q}$ In a second step they use these forms to extend Sullivan's presentation of rational homotopy type to intersection cohomology

Non Linear Mathematics Vol. I Thomas L., Saaty, Joseph, Bram, 2014-12-22 We are surrounded and deeply involved in the natural world with non linear events which are not necessarily mathematical the authors write For example the nonlinear problem of pedalling a bicycle up and down a hillside On a grand scale the struggle for existence between two species one of which preys exclusively on the other This book is for mathematicians and researchers who believe that nonlinear mathematics is the mathematics of today it is also for economists engineers operations analysts the reader who has been thus bemused into an artificially linear conception of the universe Nonlinear Mathematics is the first attempt to consider the widest range of nonlinear topics found in the scattered literature Accessible to non mathematics professionals as well as college seniors and graduates it offers a discussion both particular and broad enough to stimulate research towards a unifying theory of nonlinear mathematics Ideas are presented according to existence and uniqueness theorems characterization e.g stability and asymptotic behavior construction of solutions convergence approximation and errors

Lie Theory and Its Applications in Physics Vladimir Dobrev, 2023-01-29 This

volume presents modern trends in the area of symmetries and their applications based on contributions to the Workshop Lie Theory and Its Applications in Physics held in Sofia Bulgaria on line in June 2021 Traditionally Lie theory is a tool to build mathematical models for physical systems Recently the trend is towards geometrization of the mathematical description of physical systems and objects A geometric approach to a system yields in general some notion of symmetry which is very helpful in understanding its structure Geometrization and symmetries are meant in their widest sense i e representation theory algebraic geometry number theory infinite dimensional Lie algebras and groups superalgebras and supergroups groups and quantum groups noncommutative geometry symmetries of linear and nonlinear partial differential operators special functions and others Furthermore the necessary tools from functional analysis are included This is a big interdisciplinary and interrelated field The topics covered in this Volume are the most modern trends in the field of the Workshop Representation Theory Symmetries in String Theories Symmetries in Gravity Theories Supergravity Conformal Field Theory Integrable Systems Quantum Computing and Deep Learning Entanglement Applications to Quantum Theory Exceptional quantum algebra for the standard model of particle physics Gauge Theories and Applications Structures on Lie Groups and Lie Algebras This book is suitable for a broad audience of mathematicians mathematical physicists and theoretical physicists including researchers and graduate students interested in Lie Theory Heretic's Guide To Management Paul Culmsee, 2016-07-07 Management techniques such as strategic planning project management or operational budgeting aim to reduce ambiguity and provide clarity So it is one of the great ironies of modern corporate life that these techniques often end up doing the opposite increasing ambiguity rather than reducing it It is easy enough to understand why organizations are complex entities and it is unreasonable to expect management models such as those that fit neatly into a 2 2 matrix or a predetermined checklist to work in the real world Indeed expecting them to work as advertised is akin to colouring a paint by numbers Mona Lisa with the expectation of recreating Da Vinci's masterpiece Ambiguity has not been tamed reality will still impose itself no matter how alluring the model is Unfortunately most of us have a deep aversion to situations that involve even a hint of ambiguity Recent research in neuroscience has revealed the reason for this ambiguity is processed in the parts of the brain which regulate our emotional responses As a result many people associate ambiguity with feelings of anxiety When kids feel anxious they turn to transitional objects such as teddy bears or security blankets providing them with a sense of stability when situations or events seem overwhelming We contend that as grown ups we don't actually stop using teddy bears they take a different form Backed by research we illustrate that management models fads and frameworks are akin to teddy bears They provide the same sense of comfort and certainty to corporate managers and minions as real teddies do to distressed kids This is not a problem in many cases Children usually outgrow their need for a teddy unless if development is disrupted or arrested in some way If this happens the transitional object can become a fetish an object that is held on to with a pathological intensity simply for the comfort that it offers in the

face of ambiguity The corporate reliance on simplistic solutions for the complex challenges faced is akin to little Johnny believing that everything will be OK provided he clings on to Teddy Ambiguity is a primal force that drives much of our behaviour It is typically viewed negatively something to be avoided or to be controlled The truth however is that it is a force that can be used in positive ways too The Force that gave the Dark Side their power in the Star Wars movies was harnessed by the Jedi in positive ways Similarly this new management book shows how ambiguous situations so common in the corporate world are processed by the brain and the behaviours that often arise as a consequence More importantly though it shows you how to harness that ambiguity to achieve outstanding results

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