

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 purpose of the voltmeter in the circuit diagram.

Answer: To measure the EMF of the cell when the switch is open.



- 2.1 (1 mark)
Calculate the magnitude of the force F.
- 2.2 (1 mark)
Calculate the magnitude of the torque of the force F about the pivot.



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Physical Science Paper 1 2013 Memo

Albert A Gayle



Physical Science Paper 1 2013 Memo:

The Secure and the Dispossessed Nick Buxton, Ben Hayes, 2015-11-20 While the world's scientists and many of its inhabitants despair at the impact of climate change corporate and military leaders see nothing but opportunities For them melting ice caps mean newly accessible fossil fuels borders to be secured from climate refugees social conflicts to be managed and more failed states in which to intervene They are securing their assets at the expense of the planet and its inhabitants The Secure and the Dispossessed looks at these deadly approaches with a critical eye It also considers the flip side that the legitimacy of the elite is under unprecedented pressure from resistance by communities to resource grabs to those creating new ecological and socially just models for managing our energy food and water Topics covered include geoengineering militarism refugee protection greenwashing and the agricultural crisis among others Adaptation and resilience to a climate changed world is desperately needed but the form it will take will affect all of our futures

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 is 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 re-imagine 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

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 explore new territorial governance models that are emerging as part of the Indigenous Aboriginal governance within Arctic States provinces territories and regions analyse the recognition or lack thereof concerning indigenous rights to self determination in the Arctic and examine 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

Biofuels for Aviation Christopher Chuck,2016-06-02 Biofuels for Aviation Feedstocks Technology and Implementation presents the issues surrounding the research and use of biofuels for aviation such as policy markets certification and performance requirements life cycle assessment and the economic and technical barriers to their full implementation Readers involved in bioenergy and aviation sectors research planning or policy making activities will benefit from this thorough overview The aviation industry s commitment to reducing GHG emissions along with increasing oil prices have sparked the need for renewable and affordable energy sources tailored to this sector s very specific needs As jet engines cannot be readily electrified turning to biofuels is the most viable option However aviation is a type of transportation for which traditional biofuels such as bioethanol and biodiesel do not fulfill key fuel requirements Therefore different solutions to this situation are being researched and tested around the globe which makes navigating this scenario particularly challenging This book guides readers through this intricate subject bringing them up to speed with its current status and future prospects both from the academic and the industry point of view Science and technology chapters delve into the technical aspects of the currently tested and the most promising technology in development as well as their respective feedstocks and the use of additives as a way of adapting them to meet certain specifications Conversion processes such as hydrotreatment synthetic biology pyrolysis hydrothermal liquefaction and Fisher Tropsch are explored and their results are assessed for current and future viability Presents the current status of biofuels for the aviation sector including technologies that are currently in use and the most promising future technologies their production processes and viability Explains the requirements for certification and performance of aviation fuels and how that can be achieved by biofuels Explores the economic and policy issues as well as life cycle assessment a comparative techno economic analysis of promising technologies and a roadmap to the future Explores conversion processes such as hydrotreatment synthetic biology pyrolysis hydrothermal liquefaction and Fisher Tropsch

Corporate Social Responsibility James Weber,David Wasieleski,2018-05-14 Volume Two of Business and Society 360 focuses on research drawn from work grounded in corporate social responsibility and corporate citizenship

Twort's Water Supply Malcolm J. Brandt,K. Michael Johnson,Andrew J. Elphinston,Don D. Ratnayaka,2016-09-03 Twort s Water Supply Seventh Edition has been expanded to provide the latest

tools and techniques to meet engineering challenges over dwindling natural resources Approximately 1.1 billion people in rural and peri urban communities of developing countries do not have access to safe drinking water The mortality from diarrhea related diseases amounts to 2.2 million people each year from the consumption of unsafe water This update reflects the latest WHO European UK and US standards including the European Water Framework Directive The book also includes an expansion of waste and sludge disposal including energy and sustainability and new chapters on intakes chemical storage handling and sampling Written for both professionals and students this book is essential reading for anyone working in water engineering Features expanded coverage of waste and sludge disposal to include energy use and sustainability Includes a new chapter on intakes Includes a new chapter on chemical storage and handling

Life-Cycle of Engineering Systems: Emphasis on Sustainable Civil Infrastructure Jaap Bakker, Dan M. Frangopol, Klaas Breugel, 2016-11-18 This volume contains the papers presented at IALCCE2016 the fifth International Symposium on Life Cycle Civil Engineering IALCCE2016 to be held in Delft The Netherlands October 16-19 2016 It consists of a book of extended abstracts and a DVD with full papers including the Fazlur R Khan lecture keynote lectures and technical papers from all over the world All major aspects of life cycle engineering are addressed with special focus on structural damage processes life cycle design inspection monitoring assessment maintenance and rehabilitation life cycle cost of structures and infrastructures life cycle performance of special structures and life cycle oriented computational tools The aim of the editors is to provide a valuable source for anyone interested in life cycle of civil infrastructure systems including students researchers and practitioners from all areas of engineering and industry

Managing Medical Devices within a Regulatory Framework Beth Ann Fiedler, 2016-09-10 Managing Medical Devices within a Regulatory Framework helps administrators designers manufacturers clinical engineers and biomedical support staff to navigate worldwide regulation carefully consider the parameters for medical equipment patient safety anticipate problems with equipment and efficiently manage medical device acquisition budgets throughout the total product life cycle This contributed book contains perspectives from industry professionals and academics providing a comprehensive look at health technology management HTM best practices for medical records management interoperability between and among devices outside of healthcare and the dynamics of implementation of new devices Various chapters advise on how to achieve patient confidentiality compliance for medical devices and their software discuss legal issues surrounding device use in the hospital environment of care the impact of device failures on patient safety methods to advance skillsets for HTM professionals and resources to assess digital technology The authors bring forth relevant challenges and demonstrate how management can foster increased clinical and non clinical collaboration to enhance patient outcomes and the bottom line by translating the regulatory impact on operational requirements Covers compliance with FDA and CE regulations plus EU directives for service and maintenance of medical devices Provides operational and clinical practice recommendations in regard to regulatory changes for risk management Discusses best practices for equipment

procurement and maintenance Provides guidance on dealing with the challenge of medical records management and compliance with patient confidentiality using information from medical devices 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 Redefining Geek Cassidy Puckett, 2022-04-20 A surprising and deeply researched look at how everyone can develop tech fluency by focusing on five easily developed learning habits Picture a typical computer geek Likely white male and someone you d say has a natural instinct for technology Yet after six years teaching technology classes to first generation low income middle school students in Oakland California Cassidy Puckett has seen firsthand that being good with technology is not something people are born with it s something they learn In Redefining Geek she overturns the stereotypes around the digitally savvy and identifies the habits that can help everyone cultivate their inner geek Drawing on observations and interviews with a diverse group of students around the country Puckett zeroes in on five technology learning habits that enable tech savvy teens to learn new technologies a willingness to try and fail management of frustration and boredom use of models and the abilities to use design logic and identify efficiencies In Redefining Geek she shows how to measure and build these habits and she demonstrates how many teens historically marginalized in STEM are already using these habits and would benefit from recognition for their talent access to further learning opportunities and support in career pathways She argues that if we can develop recognize and reward these technological learning habits in all kids especially girls and historically marginalized racial and ethnic groups we can address many educational inequities and disparities in STEM Revealing how being good with technology is not about natural ability but habit and persistence Redefining Geek speaks to the ongoing conversation on equity in technology education and argues for a more inclusive technology learning experience for all students

Transnational Perspectives on Curriculum History Gary McCulloch, Ivor Goodson, Mariano González-Delgado, 2019-11-22 This book offers a remarkable range of research that emphasises the need to analyse the shaping of curricula under historical social and political variables Teachers life stories the Cold War as a contextual element that framed curricular

transformations in the US and Europe and the study of trends in education policy at transnational level are issues addressed throughout The book presents new lines of work offering multidisciplinary perspectives and provides an overview of how to move forwards The book brings together the work of international specialists on Curriculum History and presents research that offers new perspectives and methodologies from which to approach the study of the History of Education and Educational Policy It offers new debates which rethink the historical study of the curriculum and offers a strong interdisciplinary approach with contributions across Education History and the Social Sciences This book will be of great interest for academics and researchers in the fields of education and curriculum studies It will also appeal to educational professionals teachers and policy makers

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

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

Robust Methods for the Analysis of Images and Videos for Fisheries Stock Assessment National Research Council, Division on Engineering and Physical Sciences, Board on Mathematical Sciences and Their Applications, Committee on Applied and Theoretical Statistics, 2015-02-24 The National Marine Fisheries Service NMFS is responsible for the stewardship of the nation s living marine resources and their habitat As part of this charge NMFS conducts stock assessments of the abundance and composition of fish stocks in several bodies of water At present stock assessments rely heavily on human data gathering and analysis Automatic means of fish stock assessments are appealing because they offer the potential to improve efficiency and reduce human workload and perhaps develop higher fidelity measurements The use of images and video when accompanied by appropriate statistical analyses of the inferred data is of increasing importance for estimating the abundance of species and their age distributions Robust Methods for the Analysis of Images and Videos for Fisheries Stock Assessment is the summary of a workshop convened by the National Research Council Committee on Applied and Theoretical Statistics to discuss analysis techniques for images and videos for fisheries stock assessment Experts from diverse communities shared perspective about the most efficient path toward improved automation of visual information and discussed both near term and long term goals that can be achieved through research and development efforts This report is a record of the presentations and discussions of this event

Overcoming Barriers to Deployment of Plug-in Electric Vehicles National Research Council, Transportation Research Board, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on Overcoming Barriers to Electric-Vehicle Deployment, 2015-06-26 In the past few years

interest in plug in electric vehicles PEVs has grown Advances in battery and other technologies new federal standards for carbon dioxide emissions and fuel economy state zero emission vehicle requirements and the current administration's goal of putting millions of alternative fuel vehicles on the road have all highlighted PEVs as a transportation alternative Consumers are also beginning to recognize the advantages of PEVs over conventional vehicles such as lower operating costs smoother operation and better acceleration the ability to fuel up at home and zero tailpipe emissions when the vehicle operates solely on its battery There are however barriers to PEV deployment including the vehicle cost the short all electric driving range the long battery charging time uncertainties about battery life the few choices of vehicle models and the need for a charging infrastructure to support PEVs What should industry do to improve the performance of PEVs and make them more attractive to consumers At the request of Congress *Overcoming Barriers to Deployment of Plug in Electric Vehicles* identifies barriers to the introduction of electric vehicles and recommends ways to mitigate these barriers This report examines the characteristics and capabilities of electric vehicle technologies such as cost performance range safety and durability and assesses how these factors might create barriers to widespread deployment *Overcoming Barriers to Deployment of Plug in Electric Vehicles* provides an overview of the current status of PEVs and makes recommendations to spur the industry and increase the attractiveness of this promising technology for consumers Through consideration of consumer behaviors tax incentives business models incentive programs and infrastructure needs this book studies the state of the industry and makes recommendations to further its development and acceptance

Engineering Vulnerability Sarah E. Vaughn, 2022-02-07 In *Engineering Vulnerability* Sarah E Vaughn examines climate adaptation against the backdrop of ongoing processes of settler colonialism and the global climate change initiatives that seek to intervene in the lives of the world's most vulnerable Her case study is Guyana in the aftermath of the 2005 catastrophic flooding that ravaged the country's Atlantic coastal plain The country's ensuing engineering projects reveal the contingencies of climate adaptation and the capacity of flooding to shape Guyanese expectations about racial inequality Analyzing the coproduction of race and vulnerability Vaughn details why climate adaptation has implications for how we understand the past and the continued human settlement of a place Such understandings become particularly apparent not only through experts and ordinary citizens' disputes over resources but in their attention to the ethical practice of technoscience over time Approaching climate adaptation this way Vaughn exposes the generative openings as well as gaps in racial thinking for theorizing climate action environmental justice and more broadly future life on a warming planet Duke University Press Scholars of Color First Book Award recipient

Native Games Chris Hallinan, Barry Judd, 2013-07-19 Research on Indigenous participation in sport offers many opportunities to better understand the political issues of equality empowerment self-determination and protection of culture and identity This volume compares and conceptualises the sociological significance of Indigenous sports in different international contexts

Data Action Sarah Williams, 2022-09-20 How to use data as a tool for empowerment rather than oppression Big data can

be used for good from tracking disease to exposing human rights violations and for bad implementing surveillance and control Data inevitably represents the ideologies of those who control its use data analytics and algorithms too often exclude women the poor and ethnic groups In Data Action Sarah Williams provides a guide for working with data in more ethical and responsible ways Williams outlines a method that emphasizes collaboration among data scientists policy experts data designers and the public The approach generates policy debates influences civic decisions and informs design to help ensure that the voices of people represented in the data are neither marginalized nor left unheard

Complexity, Security and Civil Society in East Asia Peter Hayes, Kiho Yi, 2015-06-22 Complexity Security and Civil Society in East Asia offers the latest understanding of complex global problems in the region including nuclear weapons urban insecurity energy and climate change Detailed case studies of China North and South Korea and Japan demonstrate the importance of civil society and civic diplomacy in reaching shared solutions to these problems in East Asia and beyond Each chapter describes regional civil society initiatives that tackle complex challenges to East Asia's security In doing so the book identifies key pressure points at which civil society can push for constructive changes especially ones that reduce the North Korean threat to its neighbors Unusually this book is both theoretical and practical Complexity Security and Civil Society in East Asia presents strategies that can be led by civil society and negotiated by its diplomats to realize peace security and sustainability worldwide It shows that networked civic diplomacy offers solutions to these urgent issues that official complex diplomacy cannot By providing a new theoretical framework based on empirical observation this volume is a must read for diplomats scholars students journalists activists and individual readers seeking insight into how to solve the crucial issues of our time

Vol.1 A.I.D.A.A. Proceedings of the XXV AIDAA International Congress of Aeronautics and Astronautics M. Costanzi ,G. Carducci,C. Casale,P. Russo,F. Marulo,M. Maccarrone,N. Battista,A. Gambacurta,M. Fava,S. Piccirillo ,R. Palumbo,E. Filippone,A. Vitale,G. Duca,A. Salmeri,C. Colaianni,G. Lassourd,E. Cosson,A. Casaburo,G. Petrone,V. Meruane,F. Franco,S. de Rosa,G. Lentini,E. Afelli,E. Carrubba,A. Piras,R. Sapone,M. Crisconio,E. Martelli,S. D'Alessandro,F. Nasuti,M. de Rosa,Michele Balsamo,Liyana I. Popova,Wioleta Pawlak,Luca Pieroni,Valfredo Zolesi ,Alessandro Donati,E. Villa,F. Villa,A. Nespoli,F. Passaretti ,C. Orlando,F. Santoro,C. Romanelli,M. Deffacis ,L. Bramante ,C. Picco,D. Bussi ,M. Barrera ,P. Franceschetti,G. Mattei ,F. Scibona,M. Lucchesini,D. Tonelli,F. Rea,F. Amoroso ,R. Pecora,F. Fontanot,C. Bettanini,Fecia di Cossato,J. V. Covioli,G. Coppotelli,Rachna Dandwani,Sanmukh Khadtare,Nayana Mitti,Hrithik Patil,B. Xiong ,M. Ferlao,X. Q. Fan,F. Dell'Olio,G. Brunetti,C. Galeone,D. Filippetto ,N. Sasanelli ,V. Stanzione ,M. N. Armenise,C. Ciminelli,Giovanna Aronne,Luigi Gennaro Izzo,Leone Ermes Romano,Sara DeFrancesco ,Veronica De Micco,Stefania De Pascale ,Germana Galoforo,Giovanni Valentini,Gabriele Mascetti ,M. Grasso ,A. Renga ,M.D. Graziano ,A. Moccia ,M. Ciallella ,M. Ricchiuto,R. Paciorri ,A. Bonfiglioli,S. Paolillo ,A.M. Grande ,A.E. Vinci,M.M. Saravia ,L. Bernazzani ,A. Ceccarini,F. Paganucci,2021 The 2019 AIDAA Congress is the biennial Congress of the Italian Association of Aeronautics and Astronautics the Italian no profit

cultural association dedicated to the aerospace community AIDAA was formed in 1969 through a merging of the former Societies AIDA Associazione Italiana di Aerotecnica formed in 1920 and AIR Associazione Italiana Razzi In 1951 AIDA was among the founders of the International Astronautical Federation IAF and in 1957 of the International Council of Aeronautical Sciences ICAS In 1992 AIDAA joined the Confederation of European Aerospace Societies CEAS The Congress is jointly hosted by AIDAA Rome Section the Departments of Astronautic Electric and Energetic Engineering DIAEE and of Mechanical and Aerospace Engineering DIMA of Civil and Industrial Engineering Faculty and the School of Aerospace Engineering SIA of Sapienza University of Rome The degree courses in Aerospace Engineering are attended by almost 1500 students

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