

PHYSICAL SCIENCES

PAPER 1

MAY-JUNE

MEMO

2025



Figure 1: A circuit is shown with a battery of EMF 12V and internal resistance 1Ω. The circuit is connected to a parallel combination of a 4Ω resistor and a branch containing a 2Ω resistor in series with an ammeter A. A 6Ω resistor is connected in parallel with the entire circuit. A voltmeter V is connected in parallel across the 6Ω resistor.

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



- 1.1 Name the forces acting on the ball.
- 1.2 Draw a free-body diagram for the ball at the top of the ramp.



basic education

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REPUBLIC OF SOUTH AFRICA

Physical Science June 2013 Memo Paper 2

Kevin Sene



Physical Science June 2013 Memo Paper 2:

The Contemporary Guitar John Schneider, 2015-08-20 The Contemporary Guitar traces the extraordinary rise of the instrument in concert music over the past century. Though recognized worldwide as a popular music icon, the guitar's all too recent time when the guitar was looked down upon as a second class citizen in the world of serious music is finally past and it can now be found in the scores of the most important composers. The guitar's rightful place in chamber music, orchestral music or as a solo instrument is now without question, whether in the classic acoustic form or the more recent electric version. While the guitar has stood in the vanguard of musical experimentation, its many new techniques and notations remain a mystery for many composers and players. In *The Contemporary Guitar*, musician and scholar John Schneider explains each class of technique and illustrates them with examples. Moreover, because the guitar is easily fretted, it has also become a leading instrument in the exploration of the relatively new musical language of microtonality. In this revised and enlarged edition from the original work of three decades ago, Schneider adds a broad ranging, entirely new chapter on the instrument's notation and repertoire with insights into the interpretation of historical works through the application of accurate contemporary tunings and temperaments. The guitar's unique timbre, its tone color, is one of the most versatile among modern instruments, both acoustic and electric. Most players who intuitively explore the subtleties of tone color will find outlined in *The Contemporary Guitar* the specific principles of physics that determine these subtleties, which once mastered permit guitarists to control more completely the expressive palette of their instrument. Designated the Rational Method of Tone Production by its author, Schneider defines in great detail the timbral characteristics of acoustic and electric instruments from theoretical, physical and musical viewpoints. Players in search of new repertoire will find an historical survey of the literature, an exhaustive list of new music, and a multitude of techniques for bringing such music to life. *The Contemporary Guitar* provides audio examples online for those seeking to discover new sounds and includes the notation to perform them.

Lie Theory and Its Applications in Physics Vladimir Dobrev, 2015-01-26 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, infinite dimensional Lie algebras and groups, superalgebras and supergroups, groups and quantum groups, noncommutative geometry, symmetries of linear and nonlinear PDE, special functions and others. Furthermore the necessary tools from functional analysis and number theory are included. This is a big interdisciplinary and interrelated field. Samples of these fresh trends are presented in this volume based on contributions from the Workshop Lie Theory and Its Applications in Physics held near Varna, Bulgaria in June 2013. This book is suitable for a broad audience of mathematicians, mathematical physicists and theoretical physicists and researchers in the field of Lie Theory. Hydrometeorology Kevin

Sene,2015-12-09 This second edition explores some of the latest techniques used to provide forecasts for a wide range of water related applications in areas such as floods droughts water resources and environmental impacts The practical uses can range from decisions on whether to issue a flood warning through to providing longer term advice such as on when to plant and harvest crops or how to operate reservoirs for water supply and hydropower schemes It provides an introduction to the topic for practitioners and researchers and useful background for courses in areas such as civil engineering water resources meteorology and hydrology As in the first edition the first section considers topics such as monitoring and forecasting techniques demand forecasting and how forecasts are interpreted when issuing warnings or advice Separate chapters are now included for meteorological and catchment monitoring techniques allowing a more in depth discussion of topics such as weather radar and water quality observations The chapters on meteorological and hydrological forecasting now include a greater emphasis on rainfall forecasting and ensemble and probabilistic techniques Regarding the interpretation of forecasts an updated chapter discusses topics such as approaches to issuing warnings and the use of decision support systems and risk based techniques Given the rapid pace of development in flash flood forecasting techniques flash floods and slower responding riverine floods are now considered in separate chapters This includes more detail on forecasting floods in large river basins and on methods for providing early warnings of debris flows surface water flooding and ice jam and dam break floods Later chapters now include more information on developing areas such as environmental modelling and seasonal flow forecasting As before examples of operational systems are provided throughout and the extensive sets of references which were a feature of the first edition have been revised and updated Key themes floods droughts meteorological observations catchment monitoring meteorological forecasts hydrological forecasts demand forecasts reservoirs water resources water quality decision support data assimilation probabilistic forecasts Kevin Sene is a civil engineer and researcher with wide experience in flood risk management water resources and hydrometeorology He has previously published books on flood warning forecasting and emergency response and flash floods Springer 2008 2013

Chemical News and Journal of Physical Science ,1895 *The Business of Bees* Jill Atkins,Barry Atkins,2017-09-08 Our bee populations are under threat Over the past 60 years they have lost much of their natural habitat and are under assault from pesticides and intensive farming We rely on bees and other insects to pollinate our fruit and vegetables and without them our environment and economy will be in crisis The Business of Bees provides the first integrated account of diminishing bee populations as well as other pollinators from an interdisciplinary perspective It explores the role of corporate responsibility and governance as they relate to this critical issue and examines what the impact will be on consumers companies stock markets and ultimately on global society if bee populations continue to decline at a dangerous rate The book considers the issue of global bee population decline from a variety of disciplines combining the perspectives of academics in accounting science and humanities with those of practitioners in the finance industry The chapters explore the impact of the

rapid decline in pollinator populations on the natural world on corporations on the stock market and on accounting The Business of Bees will be essential reading for those in academia business and finance sectors and anyone invested in the future of our planet

Globalization Development and Social Justice Ann El Khoury, 2015-03-27 Are there existing alternatives to corporate globalization What are the prospects for and commonalities between communities and movements such as Occupy the World Social Forum and alternative economies Globalization Development and Social Justice advances the proposition that another globalization is not only possible but already exists It demonstrates that there are multiple pathways towards development with social justice and argues that enabling propositional agency rather than oppositional agency such as resistance is a more effective alternative to neoliberal globalization El Khoury develops a theory of infraglobalization that emphasizes creative constitution not just contestation of global and local processes The book features case studies and examples of diverse economic practice and innovative emergent political forms from the Global South and North These case studies are located in the informal social economy and community development as well as everyday practices from prefigurative politics to community cooperatives and participatory planning This book makes an important contribution to debates about the prospects for and practices of a transformative grassroots globalization and to critical debates about globalization and development strategies It will be of interest to students and scholars of international relations globalization social movement studies political and economic geography sociology anthropology and development studies

The Chemical News and Journal of Physical Science, 1895 *New Trends in Networking, Computing, E-learning, Systems Sciences, and Engineering* Khaled Elleithy, Tarek Sobh, 2014-11-27 This book includes a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of Computer Science Informatics and Systems Sciences and Engineering It includes selected papers from the conference proceedings of the Ninth International Joint Conferences on Computer Information and Systems Sciences and Engineering CISSE 2013 Coverage includes topics in Industrial Electronics Technology Includes chapters in the most advanced areas of Computing Informatics Systems Sciences and Engineering Accessible to a wide range of readership including professors researchers practitioners and students

Adaptation To Climate Change: Asean And Comparative Experiences Kheng Lian Koh, Robert Kibugi, Ilan Kelman, Rose-liza Eisma Osorio, 2015-08-05 Adaptation to Climate Change ASEAN and Comparative Experiences presents a dynamic and comprehensive collection of works from legal scholars around the world that delves into a relatively new frontier on legal aspects of climate change adaptation with focus on the ASEAN region both at the regional level as well as at the national level in some ASEAN countries such as Malaysia Philippines and Thailand Other countries not within ASEAN are also represented such as Bangladesh People's Republic of China Sri Lanka and the Republic of Taiwan In doing so it surveys one of the most important issues confronting developing countries today and the challenges to building resilient societies It is an essential source of reference for policy makers administrators the private sector officials scientists academic scholars

climatologists NGOs and CSOs in ASEAN and the world *Geometrical Theory of Satellite Orbits and Gravity Field* Drazen Svehla, 2018-07-02 This book on space geodesy presents pioneering geometrical approaches in the modelling of satellite orbits and gravity field of the Earth based on the gravity field missions CHAMP GRACE and GOCE in the LEO orbit Geometrical approach is also extended to precise positioning in space using multi GNSS constellations and space geodesy techniques in the realization of the terrestrial and celestial reference frame of the Earth This book addresses major new developments that were taking place in space geodesy in the last decade namely the availability of GPS receivers onboard LEO satellites the multitude of the new GNSS satellite navigation systems the huge improvement in the accuracy of satellite clocks and the revolution in the determination of the Earth's gravity field with dedicated satellite missions Advanced

Introduction to U.S. Environmental Law Elliott, E. D., Esty, Daniel C., 2021-10-22 Providing a comprehensive overview of the current and developing state of environmental governance in the United States this Advanced Introduction lays out the foundations of U S environmental law E Donald Elliott and Daniel C Esty explore how federal environmental law is made and how it interacts with state law highlighting the important role that administrative agencies play in the creation implementation and enforcement of U S environmental law **Occupational Therapies Without Borders E-Book** Dikaios

Sakellariou, Nick Pollard, 2016-09-23 The new edition of this landmark international work builds on the previous two volumes offering a window onto occupational therapy practice theory and ideas in different cultures and geographies It emphasizes the importance of critically deconstructing and engaging with the broader context of occupation particularly around how occupational injustices are shaped through political economic and historical factors Centering on the wider social and political aspects of occupation and occupation based practices this textbook aims to inspire occupational therapy students and practitioners to include transformational elements into their practice It also illustrates how occupational therapists from all over the world can affect positive changes by engaging with political and historical contexts Divided into six sections the new edition begins by analyzing the key concepts outlined throughout along with an overview on the importance and practicalities of monitoring and evaluation in community projects Section Two explores occupation and justice emphasizing that issues of occupational injustice are present everywhere in different forms from clinical settings to community based rehabilitation Section Three covers the enactment of different Occupational Therapies with a focus on the multiplicity of occupational therapy from the intimately personal to the broadly political Section Four engages with the broader context of occupational therapy from the political to the financial The chapters in this section highlight the recent financial crisis and the impact it has had on people's everyday life Section Five collects a range of different approaches to working to enable a notion of occupational justice Featuring chapters from across the globe Section Six concludes by highlighting the importance and diversity of educational practices Comprehensively covers occupational therapy theory methodology and practice examples related to working with underserved and neglected populations Gives a truly global overview with contributions

from over 100 international leading experts in the field and across a range of geographical political and linguistic contexts Demonstrates how occupational injustices are shaped through political economic and historical factors Advocates participatory approaches which work for those who experience inequalities Includes a complete set of new chapters Explores neoliberalism and financial contexts and their impact on occupation Examines the concept of disability Discusses theoretical and practical approaches to occupational justice

Proof Adam Kucharski,2025-05-06 An award winning mathematician he made me smile and made me feel clever Peter Frankopan shows how we prove what s true and what to do when we can t How do we establish what we believe And how can we be certain that what we believe is true And how do we convince other people that it is true For thousands of years from the ancient Greeks to the Arabic golden age to the modern world science has used different methods logical empirical intuitive and more to separate fact from fiction But it all had the same goal find perfect evidence and be rewarded with universal truth As mathematician Adam Kucharski shows however there is far more to proof than axioms theories and laws when demonstrating that a new medical treatment works persuading a jury of someone s guilt or deciding whether you trust a self driving car the weighing up of evidence is far from simple To discover proof we must reach into a thicket of errors and biases and embrace uncertainty and never more so than when existing methods fail Spanning mathematics science politics philosophy and economics this book offers the ultimate exploration of how we can find our way to proof and just as importantly of how to go forward when supposed facts falter Natural Hazards: Earth's Processes as Hazards, Disasters, and Catastrophes (4th Edition) Edward Keller,Duane DeVecchio,2015-05-20

Science Fictions Stuart Ritchie,2020-07-21 An insider s view of science reveals why many scientific results cannot be relied upon and how the system can be reformed Science is how we understand the world Yet failures in peer review and mistakes in statistics have rendered a shocking number of scientific studies useless or worse badly misleading Such errors have distorted our knowledge in fields as wide ranging as medicine physics nutrition education genetics economics and the search for extraterrestrial life As *Science Fictions* makes clear the current system of research funding and publication not only fails to safeguard us from blunders but actively encourages bad science with sometimes deadly consequences Stuart Ritchie s own work challenging an infamous psychology experiment helped spark what is now widely known as the replication crisis the realization that supposed scientific truths are often just plain wrong Now he reveals the very human biases misunderstandings and deceptions that undermine the scientific endeavor from contamination in science labs to the secret vaults of failed studies that nobody gets to see from outright cheating with fake data to the more common but still ruinous temptation to exaggerate mediocre results for a shot at scientific fame Yet *Science Fictions* is far from a counsel of despair Rather it s a defense of the scientific method against the pressures and perverse incentives that lead scientists to bend the rules By illustrating the many ways that scientists go wrong Ritchie gives us the knowledge we need to spot dubious research and points the way to reforms that could make science trustworthy once again **United**

States Code United States,2006 **Future Spacecraft Propulsion Systems and Integration** Paul A. Czysz,Claudio Bruno,Bernd Chudoba,2017-08-30 The updated and expanded third edition of this book focuses on the multi disciplinary coupling between flight vehicle hardware alternatives and enabling propulsion systems It discusses how to match near term and far term aerospace vehicles to missions and provides a comprehensive overview of the subject directly contributing to the next generation space infrastructure from space tourism to space exploration This holistic treatment defines a mission portfolio addressing near term to long term space transportation needs covering sub orbital orbital and escape flight profiles In this context a vehicle configuration classification is introduced covering alternatives starting from the dawn of space access A best practice parametric sizing approach is introduced to correctly design the flight vehicle for the mission This technique balances required mission with the available vehicle solution space and is an essential capability sought after by technology forecasters and strategic planners alike **Bad Therapy** Abigail Shrier,2024-02-27 NEW YORK TIMES BESTSELLER From the author of Irreversible Damage an investigation into a mental health industry that is harming not healing American children In virtually every way that can be measured Gen Z s mental health is worse than that of previous generations Youth suicide rates are climbing antidepressant prescriptions for children are common and the proliferation of mental health diagnoses has not helped the staggering number of kids who are lonely lost sad and fearful of growing up What s gone wrong with America s youth In Bad Therapy bestselling investigative journalist Abigail Shrier argues that the problem isn t the kids it s the mental health experts Drawing on hundreds of interviews with child psychologists parents teachers and young people Shrier explores the ways the mental health industry has transformed the way we teach treat discipline and even talk to our kids She reveals that most of the therapeutic approaches have serious side effects and few proven benefits Among her unsettling findings Talk therapy can induce rumination trapping children in cycles of anxiety and depression Social Emotional Learning handicaps our most vulnerable children in both public schools and private Gentle parenting can encourage emotional turbulence even violence in children as they lash out desperate for an adult in charge Mental health care can be lifesaving when properly applied to children with severe needs but for the typical child the cure can be worse than the disease Bad Therapy is a must read for anyone questioning why our efforts to bolster America s kids have backfired and what it will take for parents to lead a turnaround Natural Hazards Edward A. Keller,Duane E. DeVecchio,2016-07-07 Natural Hazards Earth Processes as Hazards Disasters and Catastrophes Fourth Edition is an introductory level survey intended for university and college courses that are concerned with earth processes that have direct and often sudden and violent impacts on human society The text integrates principles of geology hydrology meteorology climatology oceanography soil science ecology and solar system astronomy The book is designed for a course in natural hazards for non science majors and a primary goal of the text is to assist instructors in guiding students who may have little background in science to understand physical earth processes as natural hazards and their consequences to society Natural Hazards uses historical to

recent examples of hazards and disasters to explore how and why they happen and what we can do to limit their effects The text s up to date coverage of recent disasters brings a fresh perspective to the material The Fourth Edition continues our new active learning approach that includes reinforcement of learning objective with a fully updated visual program and pedagogical tools that highlight fundamental concepts of the text This program will provide an interactive and engaging learning experience for your students Here s how Provide a balanced approach to the study of natural hazards Focus on the basic earth science of hazards as well as roles of human processes and effects on our planet in a broader more balanced approach to the study of natural hazards Enhance understanding and comprehension of natural hazards Newly revised stories and case studies give students a behind the scenes glimpse into how hazards are evaluated from a scientific and human perspective the stories of real people who survive natural hazards and the lives and research of professionals who have contributed significantly to the research of hazardous events Strong pedagogical tools reinforce the text s core features Chapter structure and design organizes the material into three major sections to help students learn digest and review learning objectives

Not So Fast Doug Hill, 2016 There s a well known story about an older fish who swims by two younger fish and asks How s the water The younger fish are puzzled What s water they ask Many of us today might ask a similar question What s technology Technology defines the world we live in yet we re so immersed in it so encompassed by it that we mostly take it for granted Seldom if ever do we stop to ask what technology is Failing to ask that question we fail to perceive all the ways it might be shaping us Usually when we hear the word technology we automatically think of digital devices and their myriad applications As revolutionary as smartphones online shop ping and social networks may seem however they t into long standing deeply entrenched patterns of technological thought as well as practice Generations of skeptics have questioned how well served we are by those patterns of thought and practice even as generations of enthusiasts have promised that the latest innovations will deliver us soon to Paradise We re not there yet but the cyber utopians of Silicon Valley keep telling us it s right around the corner What is technology and how is it shaping us In search of answers to those crucial questions Not So Fast draws on the insights of dozens of scholars and artists who have thought deeply about the meanings of machines The book explores such dynamics as technological drift technological momentum technological disequilibrium and technological autonomy to help us understand the interconnected inter woven and interdependent phenomena of our technological world In the course of that exploration Doug Hill poses penetrating questions of his own among them Do we have as much control over our machines as we think And who can we rely on to guide the technological forces that will determine the future of the planet

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