

PHYSICAL SCIENCES

PAPER 1

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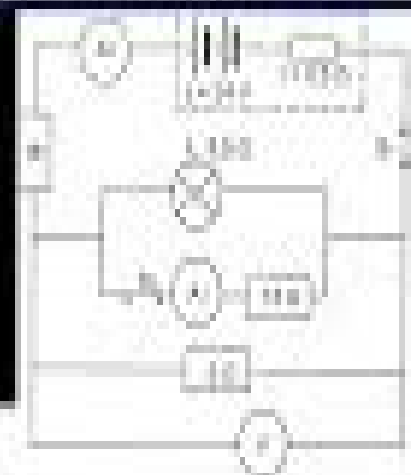
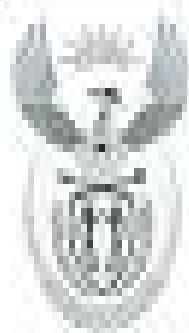
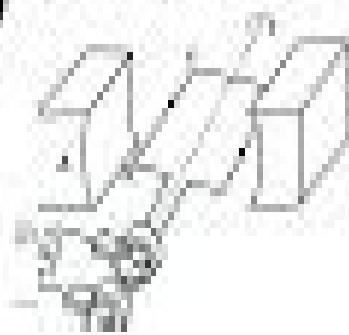


Figure 1: A circuit with two parallel branches. The battery has an EMF of 12 V and an internal resistance of 1 Ω. A switch S is in series with the battery. A voltmeter V is connected in parallel across the battery terminals. The first parallel branch contains a 4 Ω resistor and an ammeter A₁ in series. The second parallel branch contains an ammeter A₂ in series with a 12 Ω resistor. After the parallel branches, there is a 12 Ω resistor in series with a voltmeter V₂ connected in parallel across it.

- 1.1 (4 marks)
- 1.1.1 Calculate the potential difference across the voltmeter V.
- 1.1.2 Calculate the current through the 12 Ω resistor in the second parallel branch.



- 2.1 (2 marks) Calculate the moment of the 2 kg mass about the pivot.
- 2.2 (2 marks) Calculate the magnitude of the force F required to keep the beam in equilibrium.



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Physical Science June 2013 Memo Paper

**Michael Riordan, Lilian
Hoddeson, Arienne W. Kolb**



Physical Science June 2013 Memo Paper :

Where Have All the Democrats Gone? Ruy Teixeira, John B. Judis, 2023-11-07 A Wall Street Journal Best Political Book of 2023 A much needed wake up call for the Democrats which reveals how the party has lost sight of its core principles and endangered its political future from the authors of one of the most influential political books of the 21st century The New York Times For decades American politics has been plagued by a breakdown between the Democratic and Republican parties in which victory has inevitably led to defeat and vice versa Both parties have lost sight of the people at the center of the American electorate leading to polarization and paralysis In *Where Have All the Democrats Gone* John B Judis and Ruy Teixeira reveal the tectonic changes shaping the country's current political landscape that both pundits and political scientists have missed The Democratic Party once the preserve of small towns as well as big cities and of the industrial working class and the newly immigrated has abandoned and even actively alienated many of these voters In this clarion call and essential argument for common sense and common ground Judis and Teixeira reveal the transformation of American politics and provide a razor sharp critique of where the Democrats have gone awry and how they can avoid political disaster in the days ahead

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

Tunnel Visions Michael Riordan,Lilian Hoddeson,Arienne W. Kolb,2015-11-20 A detailed and engaging account of the development of the superconducting supercollider one of the largest scientific undertakings in the United States Journal of American History Starting in the 1950s US physicists dominated the search for elementary particles aided by the association of this research with national security they held this position for decades In an effort to maintain their hegemony and track down the elusive Higgs boson they convinced President Reagan and Congress to support construction of the multibillion dollar Superconducting Super Collider project in Texas the largest basic science project ever attempted But after the Cold War ended and the estimated SSC cost surpassed ten billion dollars Congress terminated the project in October 1993 Drawing on extensive archival research contemporaneous press accounts and over one hundred interviews with scientists engineers government officials and others involved Tunnel Visions tells the riveting story of the aborted SSC project The authors examine the complex interrelated causes for its demise including problems of large project management continuing cost overruns and lack of foreign contributions In doing so they ask whether Big Science has become too large and expensive including whether academic scientists and their government overseers can effectively manage such an enormous undertaking Focusing on the scientific technical and political conflicts that led to delays ever rising costs and eventually the SSC s cancelation by Congress Tunnel Visions is a true techno thriller Burton Richter winner of the Nobel Prize in Physics Most good science stories are tales of discovery and success but failure can be just as riveting Here two historians and an archivist describe the greatest particle physics experiment that never was Scientific American [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 [Nuclear Science Abstracts](#) ,1955 **Law, Death, and Robots** Keri Grieman,2024-10-17 Can the law keep up with AI This book examines liability and regulation for artificial intelligence causing serious physical harm both now and in the future While AI moves quickly regulation follows more slowly an increasing problem for an evolutionary fast paced emerging technology AI has the potential to save lives but in doing so will have the potential to take them as well How do we future proof law and regulation to incentivise life saving innovation as safely as possible This book details how to regulate AI in high risk civil applications for example automated vehicles and medicine addressing both liability and regulatory structure It highlights crucial liability themes for technology governance provides tools to bridge the gap between regulators and technologists examines jurisdictional approaches to AI regulation in the EU UK USA and Singapore and ultimately suggests a jurisdiction agnostic blueprint for regulation

[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

Range David Epstein, 2021-04-27 The 1 New York Times bestseller that has all America talking with a new afterword on expanding your range as seen on CNN's Fareed Zakaria GPS Morning Joe CBS This Morning and more The most important business and parenting book of the year Forbes Urgent and important an essential read for bosses parents coaches and anyone who cares about improving performance Daniel H Pink Shortlisted for the Financial Times McKinsey Business Book of the Year Award Plenty of experts argue that anyone who wants to develop a skill play an instrument or lead their field should start early focus intensely and rack up as many hours of deliberate practice as possible If you dabble or delay you'll never catch up to the people who got a head start But a closer look at research on the world's top performers from professional athletes to Nobel laureates shows that early specialization is the exception not the rule David Epstein examined the world's most successful athletes artists musicians inventors forecasters and scientists He discovered that in most fields especially those that are complex and unpredictable generalists not specialists are primed to excel Generalists often find their path late and they juggle many interests rather than focusing on one They're also more creative more agile and able to make connections their more specialized peers can't see Provocative rigorous and engrossing Range makes a compelling case for actively cultivating inefficiency Failing a test is the best way to learn Frequent quitters end up with the most fulfilling careers The most impactful inventors cross domains rather than deepening their knowledge in a single area As experts silo themselves further while computers master more of the skills once reserved for highly focused humans people who think broadly and embrace diverse experiences and perspectives will increasingly thrive

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

Computational Propaganda Samuel C. Woolley, Philip N. Howard, 2019 Social media platforms do not just circulate political ideas they support manipulative disinformation campaigns While some of these disinformation campaigns are carried out directly by individuals most are waged by software commonly known as bots programmed to perform simple repetitive robotic tasks Some social media bots collect and distribute legitimate information while others communicate with and harass people manipulate trending algorithms and inundate systems with spam Campaigns made up of bots fake accounts and trolls can be coordinated by one person or a small group of people to give the illusion of large scale consensus Some political regimes use political bots to silence opponents and to push official state messaging to sway the vote during elections and to defame critics human rights defenders civil society groups and journalists This book argues that such automation and platform manipulation amounts to a new political communications mechanism that Samuel Woolley and Philip N Howard call computational propaganda This differs from older styles of propaganda in that it uses algorithms automation and human curation to purposefully distribute misleading information over social media networks while it actively learns from and mimicks real people so as to manipulate public opinion across a diverse range of platforms and device networks This book includes cases of computational propaganda from nine countries both democratic and authoritarian and four continents North and South America Europe and Asia covering propaganda efforts over a wide array of social media platforms and usage in different types of political processes elections referenda and during political crises

On Mars Edward Clinton Ezell, Linda Neuman Ezell, 2013-02-19 Although it was only designed for a ninety day surface mission the Viking 1 lander ultimately transmitted science messages to Earth for seven years This authoritative history chronicles the remarkable achievements of the Viking program during its first three decades Commissioned by NASA it recounts the events surrounding the first planetary landing on Earth's closest neighbor and the first on site search for evidence of extraterrestrial life It also portrays a human drama in which thousands of professionals from government industry and academia joined together to accomplish the seemingly impossible This history begins with a survey of the qualities that make the surface and atmosphere of Mars prime targets for scientific investigation A retrospective of NASA's Mariner program follows detailing the series of robotic interplanetary probes that led to the initiation of the Viking program in 1968 The authors trace the ensuing technological developments including the first lander vehicles and orbiter They also profile the cooperation of managerial technical and scientific teams during the mission's data gathering and analysis phases The final chapters outline the scientific results of the Viking investigations examine some of

the unresolved questions and consider possible future explorations Dozens of photos taken by Viking cameras illuminate the text

Precision Cosmology Bernard J. T. Jones, 2017-04-20 Cosmology seeks to characterise our Universe in terms of models based on well understood and tested physics Today we know our Universe with a precision that once would have been unthinkable This book develops the entire mathematical physical and statistical framework within which this has been achieved It tells the story of how we arrive at our profound conclusions starting from the early twentieth century and following developments up to the latest data analysis of big astronomical datasets It provides an enlightening description of the mathematical physical and statistical basis for understanding and interpreting the results of key space and ground based data Subjects covered include general relativity cosmological models the inhomogeneous Universe physics of the cosmic background radiation and methods and results of data analysis Extensive online supplementary notes exercises teaching materials and exercises in Python make this the perfect companion for researchers teachers and students in physics mathematics and astrophysics

Shaky Foundations Mark Solovey, 2013-02-08 Numerous popular and scholarly accounts have exposed the deep impact of patrons on the production of scientific knowledge and its applications Shaky Foundations provides the first extensive examination of a new patronage system for the social sciences that emerged in the early Cold War years and took more definite shape during the 1950s and early 1960s a period of enormous expansion in American social science By focusing on the military the Ford Foundation and the National Science Foundation Mark Solovey shows how this patronage system presented social scientists and other interested parties including natural scientists and politicians with new opportunities to work out the scientific identity social implications and public policy uses of academic social research Solovey also examines significant criticisms of the new patronage system which contributed to widespread efforts to rethink and reshape the politics patronage social science nexus starting in the mid 1960s Based on extensive archival research Shaky Foundations addresses fundamental questions about the intellectual foundations of the social sciences their relationships with the natural sciences and the humanities and the political and ideological import of academic social inquiry

Fatigue and Corrosion in Metals Pietro Paolo Milella, 2024-03-19 With its combination of readability love for details and rigor Fatigue and Corrosion in Metals has become an authoritative reference work that has quickly established itself as the most comprehensive guide for fatigue and corrosion design available to date It has been adopted by several universities as reference textbook and consulted by professional engineers and scholars worldwide This must have Second Edition completely revisited to account for advances in the decade since the previous edition was published includes A new Chapter on damage nucleation A new Chapter on Very High Cycle Fatigue A new Chapter on fatigue testing and fatigue S N curve determination Expanded analysis of surface treatments and inclusions effect on fatigue Expanded treatment of volume process effect on fatigue Expanded treatments of corrosion and hydrogen embrittlement In addition to these enhancements it includes a detailed treatment of Phenomenology and morphological aspects of fatigue Surface treatments conditions and

nonmetallic inclusions effects on fatigue Stress and strain based fatigue analysis Mean stress and notch effect on fatigue Cumulative damage and multiaxial fatigue Probabilistic analysis application to fatigue design Fatigue in welds Stress corrosion and hydrogen embrittlement Fracture mechanics application to fatigue and corrosion It serves as a valuable and needful information source on the desktop of anyone involved with fatigue and corrosion in metals *Plasma Physics* James E. Drummond, 2013-01-01 A historic snapshot of the field of plasma physics this fifty year old volume offers an edited collection of papers by pioneering experts in the field In addition to assisting students in their understanding of the foundations of classical plasma physics it provides a source of historic context for modern physicists Highly successful upon its initial publication this book was the standard text on plasma physics throughout the 1960s and 70s Hailed by Science magazine as a well executed venture the three part treatment ranges from basic plasma theory to magnetohydrodynamics and microwave plasma physics Highlights include Klimontovich s article on quantum plasmas Buneman s writings on how to distinguish between attenuating and amplifying waves and Yoler s clear and cogent review of magnetohydrodynamics Professional atomic and plasma physicists and all students of plasma physics will appreciate this historic resource **The Warming Papers** David Archer, Raymond Pierrehumbert, 2013-04-29 Chosen for the 2011 ASLI Choice Honorable Mention History Category for a compendium of the key scientific papers that undergird the global warming forecast Global warming is arguably the defining scientific issue of modern times but it is not widely appreciated that the foundations of our understanding were laid almost two centuries ago with the postulation of a greenhouse effect by Fourier in 1827 The sensitivity of climate to changes in atmospheric CO₂ was first estimated about one century ago and the rise in atmospheric CO₂ concentration was discovered half a century ago The fundamentals of the science underlying the forecast for human induced climate change were being published and debated long before the issue rose to public prominence in the last few decades The Warming Papers is a compendium of the classic scientific papers that constitute the foundation of the global warming forecast The paper trail ranges from Fourier and Arrhenius in the 19th Century to Manabe and Hansen in modern times Archer and Pierrehumbert provide introductions and commentary which places the papers in their context and provide students with tools to develop and extend their understanding of the subject The book captures the excitement and the uncertainty that always exist at the cutting edge of research and is invaluable reading for students of climate science scientists historians of science and others interested in climate change Tectonic Evolution, Collision, and Seismicity of Southwest Asia Rasoul Sorkhabi, 2017-12-21 Southwest Asia is one of the most remarkable regions on Earth in terms of active faulting and folding large magnitude earthquakes volcanic landscapes petroliferous foreland basins historical civilizations as well as geologic outcrops that display the protracted and complex 540 m y stratigraphic record of Earth s Phanerozoic Era Emerged from the birth and demise of the Paleo Tethys and Neo Tethys oceans southwest Asia is currently the locus of ongoing tectonic collision between the Eurasia Arabia continental plates The region is characterized by the high plateaus of

Iran and Anatolia fringed by the lofty ranges of Zagros Alborz Caucasus Taurus and Pontic mountains the region also includes the strategic marine domains of the Persian Gulf Gulf of Oman Caspian and Mediterranean This 19 chapter volume published in honor of Manuel Berberian a preeminent geologist from the region brings together a wealth of new data analyses and frontier research on the geologic evolution collisional tectonics active deformation and historical and modern seismicity of key areas in southwest Asia

Energy and Combustion Science N. A. Chigier, 2013-10-22 *Energy and Combustion Science* is a collection of papers that covers advancement in the field of energy and combustion science The materials presented in the book are organized thematically into parts The text first covers the issues concerns problems of the contemporary combustion technology The subsequent parts of the book cover various areas in combustions science namely pollution gas oil coal and engines Most of the articles in the book are concerned with the byproduct of fuel combustion The text will be of great use to students researchers and practitioners of disciplines that deal with the energy and combustion technology

Oceanographical Engineering Robert L. Wiegel, 2013-09-03 As is the case with many modern fields of study oceanographical engineering cuts across the boundaries of several disciplines Like other scientific endeavors it aims to understand the nature of the ocean and to make use of this understanding for the benefit of humanity through better ports safer and more economical operations at sea and greater use of the oceans natural resources food raw materials and recreation This graduate level text requires a knowledge of fluid mechanics a background in the motions of sediments in fluids is advisable as is a concurrent course in structural dynamics Topics include the theory of periodic waves tsunamis storm surges and harbor oscillations the effect of structures on waves waves in shoaling water tides and sea level changes currents shores and shore processes some characteristics of the oceans waters moorings and other related subjects Certain portions of the book pertaining to the distribution of temperatures and salinities in the ocean are largely descriptive other portions such as the sections on waves are mathematical Numerous drawings and photographs supplement the text

Pacific International Conference on Aerospace Science and Technology ,1994

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