

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 (4 marks)
State the meaning of parallel and series components.
Answer these from 1.1.1 to 1.1.2 in the unit where the unit is correct.
Show your reasoning.



- 2.1 (4 marks)
2.2 (4 marks)
2.3 (4 marks)



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Physical Science June 2013 Memo Paper

SJ Ball



Physical Science June 2013 Memo Paper :

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

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

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

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

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

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 *Nuclear Science Abstracts* ,1955 **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 x 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.

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. 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

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Table of Contents Physical Science June 2013 Memo Paper

1. Understanding the eBook Physical Science June 2013 Memo Paper
 - The Rise of Digital Reading Physical Science June 2013 Memo Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science June 2013 Memo Paper
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Physical Science June 2013 Memo Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science June 2013 Memo Paper
 - Personalized Recommendations

- Physical Science June 2013 Memo Paper User Reviews and Ratings
- Physical Science June 2013 Memo Paper and Bestseller Lists
- 5. Accessing Physical Science June 2013 Memo Paper Free and Paid eBooks
 - Physical Science June 2013 Memo Paper Public Domain eBooks
 - Physical Science June 2013 Memo Paper eBook Subscription Services
 - Physical Science June 2013 Memo Paper Budget-Friendly Options
- 6. Navigating Physical Science June 2013 Memo Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science June 2013 Memo Paper Compatibility with Devices
 - Physical Science June 2013 Memo Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science June 2013 Memo Paper
 - Highlighting and Note-Taking Physical Science June 2013 Memo Paper
 - Interactive Elements Physical Science June 2013 Memo Paper
- 8. Staying Engaged with Physical Science June 2013 Memo Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science June 2013 Memo Paper
- 9. Balancing eBooks and Physical Books Physical Science June 2013 Memo Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science June 2013 Memo Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science June 2013 Memo Paper
 - Setting Reading Goals Physical Science June 2013 Memo Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science June 2013 Memo Paper
 - Fact-Checking eBook Content of Physical Science June 2013 Memo Paper

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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web the objective of this project is to design an automatic water level control system it indicates the level of water in the tank and automatically controls it by using pic microcontroller ic 16f887a and water level sensor seven segment displays show the current water level in the overhead tank

water level indicator with alarms using pic microcontroller ajer - Jan 08 2023

web these switches indicate water level of both tanks pic microcontrollers also controls the motor which pumps the water in the tank from the reservoir in the auto mode motor is automatically turned on when water level reaches 20 in the tank and it is turned off when water level reaches 100 choose pic microcontroller for

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web this wireless level indicator and controller can automatically switch on and off the domestic water pump set depending on the tank water level and also display the level of water using lcd as well as using led s and buzzer

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web microcontroller based automated water level sensing and controlling design and implementation issue s m khaled reza shah ahsanuzzaman md tariq s m mohsin reza abstract in this paper we introduce the notion of water level monitoring and management within the context of electrical conductivity of the water

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web may 30 2017 here is a simple versatile project which indicates the level of water and automatically controls it by using pic microcontroller the water level sensing section senses the level of water in the tank and sends it wireless to the receiver section

using a water level sensor with microcontrollers - Feb 09 2023

web apr 1 2018 a water level sensor is a simple device that is used to measure the level and the volume of water inside a container this tutorial shows you how to use a water level sensor with microcontrollers like an arduino or pic

pdf microcontroller based automatic control for water - Sep 04 2022

web jul 1 2016 this research has successfully provided an improvement on existing water level controllers by its use of calibrated circuit to indicate the water level and use of dc instead of ac

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web circuit diagram the soul of the controlling section is pic16f877a it process the data given by the receiver section lcd display led indications and motor status are updated according to the data you can download the hex file and mikroc source code at the bottom of this article mikroc code

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web jun 20 2018 it indicates the level of water in the tank and automatically controls it by using pic microcontroller and water level sensors water sensor water level sensor is an easy to use cost effective high level drop recognition sensor which is obtained by having a series of parallel wires exposed traces measured droplets water volume in

contactless liquid level controller system using pic microcontroller - Aug 03 2022

web pic microcontroller in this contactless liquid level controller system the pic 18f452 microcontroller have been used for the intelligent control of this system it 40 pins integrated circuit ic powered up with 5v dc and interfaced with ultrasonic module lcd display and load transistor

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web controlling section circuit diagram water level indicator controller using pic microcontroller the soul of the controlling section is pic16f877a it process the data given by the receiver section lcd display led indications and motor status are updated according to the data