

# PHYSICAL SCIENCES P.1

## MEMO-2024



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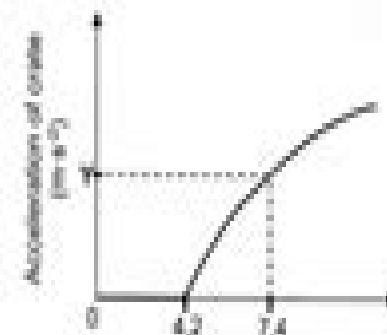
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1 times by adding different masses to increase the hanging mass each time.  
the effects of air friction.



data obtained were used to draw the sketch graph below.



length. The spring then falls to the ground.  
Trolley A moves to the left, while trolley B moves to the right and then up a frictionless inclined plane, rising to a maximum vertical height of 1,5 m, as shown in the diagram below.



Ignore the rotational effects of the wheels.

- 6.1 Write down the principle of conservation of mechanical energy in words. (2)
- 6.2 Calculate the speed of trolley B at the bottom of the inclined plane. (4)
- 6.3 For the trolley that the spring forces it return to its natural length.

1 a new page.)

1 applied at an angle of  $30^\circ$  to the horizontal  
ly at rest, as shown in the diagram below.

on of 10 N acts on the crate as it moves from rest at point A ab  
point B. The distance between point A and point B is 1,5  
at point B is  $2 \text{ m s}^{-1}$ .



is work done by a force.

of free-body diagram showing ALL the forces acting on the crate.

IF PRINCIPLES ONLY, calculate the magnitude of force F.

# November 2013 Physical Sciences Paper 1 Memo

**Robert Davis**



## November 2013 Physical Sciences Paper 1 Memo:

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

The UFO Phenomenon Robert Davis, 2015-02-28 A comprehensive perspective of evidence and future directions associated with the UFO phenomenon Includes review and analysis of studies evidence theories and research needs involving UFO topics Extensive scientific endnotes

**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

**30 Years Of Bes Physics - Proceedings Of The Symposium On 30 Years Of Bes Physics** Minghan Ye, Changzheng Yuan, 2020-06-05 BES the Beijing Spectrometer began its first groundbreaking physics run thirty years ago in 1989 This is the first high energy physics experiment in China and has been unique throughout the world for its thorough and extended coverage of the tau and charm energy region Since then the BES detector has undergone steady improvements upgrading to BESII in 1998 and to BESIII in 2008 Over the same period the collaboration has expanded from 150 members across 10 institutions in China and the United States to about 500 members across 72 institutions and 15 countries The physics program too has extended from light hadron spectroscopy tau and charm physics to the discovery of exotic charmonium like states precision tests of the Standard Model of particle physics and searches for new physics beyond the Standard Model This special volume collects the proceedings of the symposium held at the Institute of High Energy Physics Beijing in celebration of the 30 year span of achievements and progress at the BES BESII and BESIII experiments Written by many leaders of the BES collaborations these proceedings document the early days of the BES experiments important milestones and the future physics program at BESIII

**Proceedings Of The Conference In Honour Of The 90th Birthday Of Freeman Dyson** Kok Khoo Phua, Phil Aik Hui Chan, Ngee-pong Chang, Leong-chuan Kwek, 2014-04-22 Professor Freeman Dyson a great physicist thinker and futurist has been very active in scientific literary and public policy activities throughout his career As a tribute to him on the occasion of his 90th birthday and to celebrate his lifelong contributions in physics mathematics astronomy nuclear engineering and global warming a conference covering a wide range of topics was held in Singapore from 26 to 29 August 2013 Distinguished scientists from around the world including Nobel Laureate Professor David Gross joined Professor Dyson in the celebration with a festival of lectures This memorable volume collects an interesting lecture by Professor Dyson Is a Graviton Detectable contributions by speakers at the conference as well as guest contributions by colleagues who celebrated Dyson s birthday at Rutgers

University and Institute for Advanced Study in Princeton About Freeman Dyson Freeman John Dyson FRS born December 15 1923 is an eminent English born American physicist mathematician and futurist He is famous for his work in quantum electrodynamics solid state physics mathematics astronomy and nuclear engineering as well as a renowned and best selling author He has spent most of his life as a professor of physics at the Institute for Advanced Study in Princeton taking time off to advise the US government and write books for the public He has won numerous notable awards including the Enrico Fermi Award Templeton Prize Wolf Prize Pomeranchuk Prize and Henri Poincar Prize

Decision Making and Knowledge Decision Support Systems Anna Maria Gil-Lafuente, Constantin Zopounidis, 2014-12-01 This book presents recent advancements of

research new methods and techniques applications and projects in decision making and decision support systems It explores expert systems and neural networks knowledge engineering and management fuzzy sets and systems and computational methods for optimization data analysis and decision making It presents applications in Economics Finance Management and Engineering The book undertakes to stimulate scientific exchange ideas and experiences in the field of decision making in Economy and Management Researchers and practitioners alike will benefit from this book when they are dealing with imprecision vagueness and uncertainty in the context of decision making

**Breakout** Newt Gingrich,2013-11-04 It is not between the Left and the Right but between the past and the future America is on the edge of a breakout In fact we are poised for one of the most spectacular leaps in human well being in history Pioneers of the future innovators and entrepreneurs are achieving breakthroughs in medicine transportation energy education and other fields that will make the world a dramatically different and better place Unless the prison guards of the past stop them Every American must choose a side Will you be a champion of the future or a prisoner of the past Every potential breakthrough has to get past a host of individuals and institutions whose power and comfort depend on the status quo These prison guards of the past will strangle every innovation that threatens to change the way things have always been done if we let them

*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

**Atmospheric physics, atmospheric environment, and atmospheric effects on human health** Honglei Wang,Meng Gao,Duanyang Liu,Yi Li,2023-06-07 *Ancient Fire, Modern Fire* Einar Jensen,2016-02-16 Creating fire is easy yet understanding and learning to live with this friend and foe has never

been easy stopping fire is a dangerous and often deadly pursuit Drawing on his experiences as an environmental historian firefighter and life safety educator author Einar Jensen presents an eye opening look at fire and our history of dealing with it then gives us the tools for being responsible and prepared as parents and teachers as communities and fire service professionals and as homeowners in the wildland urban interface If we don t change our understanding of fire our rules of engagement or our cultural values we should expect more tragedies and be willing to pay for them in ever increasing volumes of dollars blood sweat and tears I m committed to preventing these tragedies and I hope to bring more members into my prevention cadre Einar Jensen Contents 1 Fire Our Friend and Foe 2 Fundamentals of Fire Science 3 Youth Firesetting Playing with Fire Can Burn Us 4 Fire s Dark Side A Tool of Pain Destruction 5 Fire s Positive Side A Tool of Creation 6 Rules of Fire Rites of Fire 7 Sacred Fire 8 Risk Perception and Fire 9 Harmony with Fire 10 Will We Keep Burning Plus 29 Ancient Myths about the Origins of Fire and a detailed appendix with Resources for Dealing with Youth Fire Misuse Suggested Reading Online Resources Glossary and more

**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 s 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

Professional Journal of the United States Army ,2015 United States Department of State Treaties in Force; A List of Treaties and Other International Agreements of the United States in Force on January 1, 2018 ,

**Fluid Mechanics and Hydraulics** Vedat Batu,2024-05-27 Fluid Mechanics and Hydraulics Illustrative Worked

Examples of Surface and Subsurface Flows presents the basic principles of fluid mechanics through the use of numerous worked examples Some readers may have interest only in the application parts of various principles without paying too much attention to the derivation details of equations Other readers may have interest both in derivation details and their applications As a result this book is designed to address both needs and most derivation details are included as example problems Therefore those who are not interested in the details of derivations may skip them without interrupting the effective use of the book It serves as an effective learning source for college students and as a teaching tool for instructors with an included solutions manual as well as for practicing professionals in the areas of fluid mechanics and hydraulics

**Environmental Security in Greece** Charis (Harris) Gerosideris,2021-11-10 Environmental Security in Greece establishes stakeholders perceptions of environmental security and energy security taking a Q methodology and Digital Media Research Framework approach In depth individual viewpoints and opinions of policymakers energy industry leaders NGOs members and the public are described throughout *Past, Present and Future Of Multispacecraft Measurements For Space Physics* Joseph E. Borovsky, David Gary Sibeck,David Knudsen,Xochitl Blanco-Cano, Katariina Nykyri,2025-03-19 Multi spacecraft scientific missions for space physics have been flown since the 1960s with early missions such as IMP VELA Helios and ISEE Much of the success in understanding the Earth s magnetosphere and ionosphere and the physics and evolution of the solar wind has come from multi spacecraft measurements Multi spacecraft measurements have been essential for studying the transport of plasma and energy the motion of boundaries the evolution of structure the growth of instabilities particle injections and the rudiments of cross scale coupling and they have allowed accurate determinations of the orientation of plasma boundaries and current sheets the geometry of magnetic field structures the remote connections along magnetic field lines and the direction of plasma wave vectors Multispacecraft missions continue into the present including planned constellation type missions plus the use of the Heliophysics Great Observatory a collection of data from diverse spacecraft throughout the heliosphere Modern four spacecraft volumetric measurements are enabling the measurement of the gradients divergences and curls of the vector fields *Issues for Debate in Social Policy* CQ Researcher,2014-05-27 This collection of non partisan reports focuses on 18 hot button social policy issues written by award winning CQ Researcher journalists As an annual that comes together just months before publication the volume is as current as possible And because it s CQ Researcher the social policy reports are expertly researched and written showing all sides of an issue Chapters follow a consistent organization exploring three issue questions then offering background current context and a look ahead as well as featuring a pro con debate box All issues include a chronology bibliography photos charts and figures Vibrio ecology, pathogenesis and evolution Rita R Colwell,Daniela Ceccarelli,2014-10-24 Vibrios are Gram negative bacilli that occur naturally in marine estuarine and freshwater systems Some species include human and animal pathogens capable of causing gastroenteritis wound infections cholera and fatal septicemia Over the past decades cutting

edge research on *Vibrio* genomics has promoted a tremendous advance in our knowledge of these pathogens. Significant developments include the discovery of emerging epidemic clones tracking the spread of new strain variants and an intensified appreciation of the role of mobile genetic elements in antibiotic resistance spread as well as pathogenesis. Furthermore, improved understanding of the interaction of *Vibrios* with a variety of living organisms in the aquatic environment has documented the significant role of environmental reservoirs in their seasonal cycle favoring persistence of the pathogen during inter epidemic periods and enhancing disease transmission. This Research Topic is dedicated to our current understanding in these areas and will bring together leading experts in the field to provide a deep overview of *Vibrios* ecology and evolution and will suggest the pathway of future research in this field. Approved Mental Health Practice Sarah Matthews, Philip O'Hare, Jill Hemmington, 2014-03-31

Drawing on a wealth of experience from both current and past practitioners in mental health, this book is a handbook for Approved Mental Health Practitioners at a time of uncertainty and change. The book considers the themes and issues relating to the role, the present day challenges and future directions for the profession. **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 a vision, roadmap and implementation plan for the integration of data analysis in support of decisions within the purview of P R.



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