

PHYSICAL SCIENCES P.1

MEMO-2024



basic education

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Basic Education
REPUBLIC OF SOUTH AFRICA

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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. (2)

(4 new pages.)

is applied at an angle of 30° 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 up
point B. The distance between point A and point B is 1,5
at point B is 2 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 Memo Paper 1

Allan A. Needell



November 2013 Physical Sciences Memo Paper 1:

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

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 *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 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 **The Routledge Social Science Handbook of AI** Anthony Elliott, 2021-07-12 The Routledge Social Science Handbook of AI is a landmark volume providing students and teachers with a comprehensive and accessible guide to the major topics and trends of research in the social sciences of artificial intelligence AI as well as surveying how the digital revolution from supercomputers and social media to advanced automation and robotics is transforming society culture politics and economy The Handbook provides representative coverage of the full range of social science engagements with the AI revolution from employment and jobs to education and new digital skills to automated technologies of military warfare and the future of ethics The reference work is introduced by editor Anthony Elliott who addresses the question of relationship of social sciences to artificial intelligence and who surveys various convergences and divergences between contemporary social theory and the digital revolution The Handbook is exceptionally wide ranging in span covering topics all the way from AI technologies in everyday life to single purpose robots throughout home and work life and from the mainstreaming of human machine interfaces to the latest advances in AI such as the ability to mimic and improve on many aspects of human brain function A unique integration of social science on the one hand and new technologies of artificial intelligence on the other this Handbook offers readers new ways of understanding the rise of AI and its associated global transformations Written in a clear and direct style the Handbook will appeal to a wide undergraduate audience **Well Worth Saving** Laurel Leff, 2019-12-03 A harrowing account of the profoundly consequential decisions American universities made about refugee scholars from Nazi dominated Europe a finalist for a 2020 National Jewish Book Award The United States role in saving Europe s intellectual elite from the Nazis is often told as a tale of triumph which in many ways it was

America welcomed Albert Einstein and Enrico Fermi Hannah Arendt and Herbert Marcuse Rudolf Carnap and Richard Courant among hundreds of other physicists philosophers mathematicians historians chemists and linguists who transformed the American academy Yet for every scholar who survived and thrived many many more did not To be hired by an American university a refugee scholar had to be world class and well connected not too old and not too young not too right and not too left and most important not too Jewish Those who were unable to flee were left to face the horrors of the Holocaust In this rigorously researched book Laurel Leff rescues from obscurity scholars who were deemed not worth saving and tells the riveting full story of the hiring decisions universities made during the Nazi era *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 Corporate Social Responsibility James Weber,David Wasieleski,2018-05-14 Volume Two of Business and Society 360 focuses on research drawn from work grounded in corporate social responsibility and corporate citizenship Storytelling Organizational Practices David M. Boje,2014-06-20 Once upon a time the practice of storytelling was about collecting interesting stories about the past and converting them into soundbite pitches Now it is more about foretelling the ways the future is approaching the present prompting a re storying of the past Storytelling has progressed and is about a diversity of voices not just one teller of one past it is how a group or organization of people negotiates the telling of history and the telling of what future is arriving in the present With the changes in storytelling practices and theory there is a growing need to look at new and different methodologies Within this exciting new

book David M Boje develops new ways to ask questions in interviews and make observations of practice that are about storytelling the future This after all is where management practice concentrates its storytelling while much of the theory and method work is all about how the past might recur in the future Storytelling Organizational Practices takes the reader on a journey from looking at narratives of past experience through looking at living stories of emergence in the present to looking at how the future is arriving in ways that prompts a re-storying of the past

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

Eternal Vigilance? Christopher Andrew, Rhodri Jeffreys-Jones, 2013-09-13 Eternal Vigilance seeks to offer reinterpretations of some of the major established themes in CIA history such as its origins foundations its treatment of the Soviet threat the Iranian revolution and the accountability of the agency The book also opens new areas of research such as foreign liaison relations with the scientific community use of scientific and technical research and economic intelligence The articles are both by well known scholars in the field and young researchers at the beginning of their academic careers Contributors come almost equally from both sides of the Atlantic All draw to varying degrees on recently declassified documents and newly available archives and as the final chapter seeks to show all point the way to future research

Literature 1980, Part 2 Siegfried Böhme, Professor Dr. Walter Fricke, Inge Heinrich, Wilfried Hofmann, Dietlinde Krahn, Dorothea Rosa, Dr. Lutz D. Schmadel, Gert Zech, 2013-04-18

Information Technology in Health Science Education E. de Land, 2013-11-11 This first volume is but an introduction to the growing use of computer based systems in health science education It is unlikely that the intellectual or applied system constructs herein are either exhaustive of the field or immutable growth is inevitable For one thing the field is still fractured and loosely organized which is an inevitable description of an adolescent science in a rich mine of ideas There is emerging however an organizing concept A short look into the future indicates that educational system design will be dominated by a concept which for want of a better term we may call an information system Actually

this term derives from an early New York World's Fair exhibition designed by Charles Eames entitled the Informational Machine in which the designer illustrated once again his insight into the future by showing how in a fundamental manner the digital computer promised to affect and to change our lives and this change is by no means completed. Even during the publication of this volume the basic sciences requisite to the development of an information machine have evolved significantly. The three intellectual areas to watch are developments in artificial intelligence, graphics and man-machine interaction and basic component and computer system design.

Ploughshares and Swords Jayita Sarkar, 2022-07-15 India's nuclear program is often misunderstood as an inward-looking endeavor of secretive technocrats. In *Ploughshares and Swords* Jayita Sarkar challenges this received wisdom narrating a global story of India's nuclear program during its first forty years. The book foregrounds the program's civilian and military features by probing its close relationship with the space program. Through nuclear and space technologies India's leaders served the technopolitical aims of economic modernity and the geopolitical goals of deterring adversaries. The politically savvy transnationally connected scientists and engineers who steered the program obtained technologies, materials and information through a variety of state and nonstate actors from Europe and North America including both superpowers. They thus maneuvered around Cold War politics and the choke points of the nonproliferation regime. Hyperdiversification increased choices for the leaders of the nuclear program but reduced democratic accountability at home. The nuclear program became a consensus-enforcing device in the name of the nation. *Ploughshares and Swords* is a provocative new history with global implications. It shows how geopolitical and technopolitical visions influence decisions about the nation after decolonization. Thanks to generous funding from the Swiss National Science Foundation, the ebook editions of this book are available as Open Access volumes from Cornell Open: cornellpress.cornell.edu/cornell-open and other repositories.

Science, Cold War and the American State Allan A. Needell, 2013-02-01 This book illuminates how Berkner became a model that produced the scientist-advisor/policymaker that helped build post-war America. It does so by providing a detailed account of the personal and professional beliefs of one of the most influential figures in the American scientific community, a figure that helped define the political and social climates that existed in the United States during the Cold War.

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 2x2 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

Equivalence

Amanda L. Golbeck,2017-04-28 Equivalence Elizabeth L Scott at Berkeley is the compelling story of one pioneering statistician s relentless twenty year effort to promote the status of women in academe and science Part biography and part microhistory the book provides the context and background to understand Scott s masterfulness at using statistics to help solve societal problems In addition to being one of the first researchers to work at the interface of astronomy and statistics and an early practitioner of statistics using high speed computers Scott worked on an impressively broad range of questions in science from whether cloud seeding actually works to whether ozone depletion causes skin cancer Later in her career Scott became swept up in the academic women s movement She used her well developed scientific research skills together with the advocacy skills she had honed in such activities as raising funds for Martin Luther King Jr and keeping Free Speech Movement students out of jail toward policy making that would improve the condition of the academic workforce for women The book invites the reader into Scott s universe a window of inspiration made possible by the fact that she saved and dated every piece of paper that came across her desk

"Well, Doc, You're In" David Kaiser,2022-10-25 The life and work of Freeman Dyson renowned scientist visionary and iconoclast and his particular way of thinking about deep questions Freeman Dyson 1923 2020 renowned scientist visionary and iconoclast helped invent modern physics Not bound by disciplinary divisions he went on to explore foundational topics in mathematics astrophysics and the origin of life General readers were introduced to Dyson s roving mind and heterodox approach in his 1979 book Disturbing the Universe a poignant

autobiographical reflection on life and science *Well Doc You re In* the title quotes Richard Feynman s remark to Dyson at a physics conference offers a fresh examination of Dyson s life and work exploring his particular way of thinking about deep questions that range from the nature of matter to the ultimate fate of the universe The chapters written by leading scientists historians and science journalists including some of Dyson s colleagues trace Dyson s formative years his budding interests and curiosities and his wide ranging work across the natural sciences technology and public policy They describe Dyson s innovations at the intersection of quantum theory and relativity his novel nuclear reactor design and his never realized idea of a spacecraft powered by nuclear weapons his years at the Institute for Advanced Study and his foray into cosmology In the coda Dyson s daughter Esther reflects on growing up in the Dyson household *Well Doc You re In* assesses Dyson s successes blind spots and influence assembling a portrait of a scientist s outsized legacy Contributors Jeremy Bernstein Robbert Dijkgraaf Esther Dyson George Dyson Ann Finkbeiner Amanda Geffer Ashutosh Jogalekar David Kaiser Caleb Scharf William Thomas

Formality of the Little N -disks Operad Pascal Lambrechts, Ismar Volić, 2014-06-05 The little disks operad along with its variants is an important tool in homotopy theory It is defined in terms of configurations of disjoint dimensional disks inside the standard unit disk in \mathbb{C} and it was initially conceived for detecting and understanding fold loop spaces Its many uses now stretch across a variety of disciplines including topology algebra and mathematical physics In this paper the authors develop the details of Kontsevich s proof of the formality of little disks operad over the field of real numbers More precisely one can consider the singular chains on as well as the singular homology of These two objects are operads in the category of chain complexes The formality then states that there is a zig zag of quasi isomorphisms connecting these two operads The formality also in some sense holds in the category of commutative differential graded algebras The authors additionally prove a relative version of the formality for the inclusion of the little disks operad in the little disks operad when

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

Immerse yourself in heartwarming tales of love and emotion with is touching creation, **November 2013 Physical Sciences Memo Paper 1** . This emotionally charged ebook, available for download in a PDF format (Download in PDF: *), is a celebration of love in all its forms. Download now and let the warmth of these stories envelop your heart.

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