

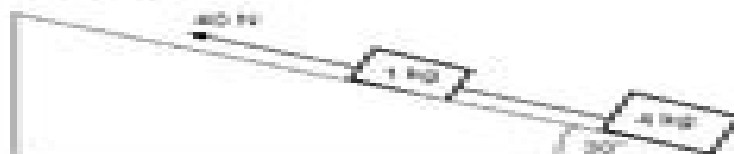
PHYSICAL SCIENCES P1 REVISION DOCUMENT

NEWTON'S LAWS

State the following laws

1. Newton's second law of motion
2. Newton's law of universal gravitation

QUESTION 2



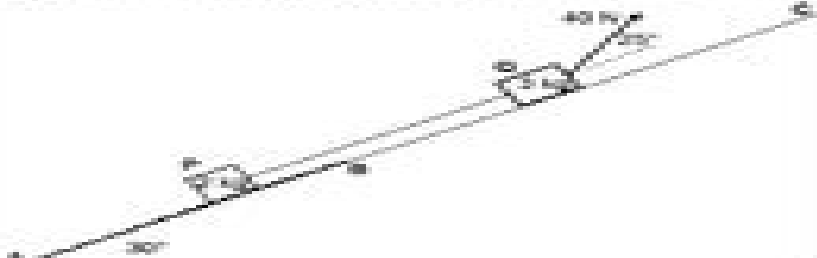
A block of mass 1 kg is connected to another block of mass 4 kg by a light inextensible string. The 1 kg block is on the inclined plane, by means of a constant 40 N force parallel to the plane as shown in the diagram below. The magnitude of the kinetic frictional force between the surface and the 4 kg block is 10 N. The coefficient of kinetic friction between the 1 kg block and the surface is 0,20.

- 2.1 State Newton's third law of motion in words. (2)
- 2.2 Draw a labelled free-body diagram showing ALL the forces acting on the 1 kg block as it moves up the incline. (5)
- 2.3 Calculate the magnitude of the:
 - 2.3.1 Kinetic frictional force between the 1 kg block and the surface (2)
 - 2.3.2 Tension in the string connecting the two blocks (5)

[14]

QUESTION 15

Block P, of mass 2 kg, is connected to block Q, of mass 3 kg, by a light inextensible string. Both blocks are on a plane inclined at an angle of 30° to the horizontal. Block Q is pulled by a constant force of 40 N at an angle of 25° to the incline.



Block P moves on a rough section, AB, of the incline, while block Q moves on a frictionless section, BC, of the incline. See diagram.

An average constant frictional force of 2,5 N acts on block P as it moves from A to B up the incline.

- 15.1 State Newton's Second Law in words. (2)
- 15.2 Draw a labelled free-body diagram for block P. (4)
- 15.3 Calculate the magnitude of the acceleration of block P while block P is moving on section AB. (8)

- 15.4 If block P has now passed point B, how will its acceleration compare to that calculated in QUESTION 15.3? Choose from: GREATER THAN, SMALLER THAN, or EQUAL TO. Give a reason for the answer. (2)

[14]

Engineering Science Nmemorandum November 2013

Marco Aliberti



Engineering Science Nmemorandum November 2013:

SBIR at NASA National Academies of Sciences, Engineering, and Medicine, Policy and Global Affairs, Board on Science, Technology, and Economic Policy, Committee on Capitalizing on Science, Technology, and Innovation: An Assessment of the Small Business Innovation Research Program--Phase II, 2016-06-02 The Small Business Innovation Research SBIR program is one of the largest examples of U S public private partnerships and was established in 1982 to encourage small businesses to develop new processes and products and to provide quality research in support of the U S government s many missions The U S Congress tasked the National Research Council with undertaking a comprehensive study of how the SBIR program has stimulated technological innovation and used small businesses to meet federal research and development needs and with recommending further improvements to the program In the first round of this study an ad hoc committee prepared a series of reports from 2004 to 2009 on the SBIR program at the five agencies responsible for 96 percent of the program s operations including NASA In a follow up to the first round NASA requested from the Academies an assessment focused on operational questions in order to identify further improvements to the program Public private partnerships like SBIR are particularly important since today s knowledge economy is driven in large part by the nation s capacity to innovate One of the defining features of the U S economy is a high level of entrepreneurial activity Entrepreneurs in the United States see opportunities and are willing and able to assume risk to bring new welfare enhancing wealth generating technologies to the market Yet although discoveries in various fields present new opportunities converting these discoveries into innovations for the market involves substantial challenges The American capacity for innovation can be strengthened by addressing the challenges faced by entrepreneurs

Iran's Rocket and Missile Forces and Strategic Options Anthony H. Cordesman, 2015-01-23 Iran s rocket and missile forces serve a wide range of Iranian strategic objectives These forces range from relatively short range artillery rockets that support its ground forces and limit the need for close air support to long range missiles that can reach any target in the region and the development of booster systems that might give Iran the ability to strike at targets throughout Europe and even in the United States Iran s forces and systems are steadily evolving While the lethality of most current systems is limited by a reliance on conventional warheads poor accuracy and uncertain reliability Iran is developing steadily improved guidance systems attempting to improve the lethality of its conventional warheads and has at least studied arming its missiles with nuclear warheads

NASA Technical Memorandum ,1988 Force Multiplying Technologies for Logistics Support to Military Operations National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Force Multiplying Technologies for Logistics Support to Military Operations, 2014-12-15 The mission of the United States Army is to fight and win our nation s wars by providing prompt sustained land dominance across the full range of military operations and spectrum of conflict in support of combatant commanders Accomplishing this mission rests on the ability of the Army to equip and move its forces to the battle and sustain

them while they are engaged Logistics provides the backbone for Army combat operations Without fuel ammunition rations and other supplies the Army would grind to a halt The U S military must be prepared to fight anywhere on the globe and in an era of coalition warfare to logistically support its allies While aircraft can move large amounts of supplies the vast majority must be carried on ocean going vessels and unloaded at ports that may be at a great distance from the battlefield As the wars in Afghanistan and Iraq have shown the costs of convoying vast quantities of supplies is tallied not only in economic terms but also in terms of lives lost in the movement of the materiel As the ability of potential enemies to interdict movement to the battlefield and interdict movements in the battlespace increases the challenge of logistics grows even larger No matter how the nature of battle develops logistics will remain a key factor Force Multiplying Technologies for Logistics Support to Military Operations explores Army logistics in a global complex environment that includes the increasing use of antiaccess and area denial tactics and technologies by potential adversaries This report describes new technologies and systems that would reduce the demand for logistics and meet the demand at the point of need make maintenance more efficient improve inter and intratheater mobility and improve near real time in transit visibility Force Multiplying Technologies also explores options for the Army to operate with the other services and improve its support of Special Operations Forces This report provides a logistics centric research and development investment strategy and illustrative examples of how improved logistics could look in the future

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

Women in IT in the New Social Era: A Critical Evidence-Based Review of Gender Inequality and the Potential for Change Bernhardt, Sonja, 2014-03-31 Research and statistics support the view that current programs are failing to keep women in the ICT field Currently there exist very few solutions to this growing problem Women in IT in the New Social Era A Critical Evidence Based Review of Gender Inequality and the Potential for Change aims to bring this topic to the forefront of discussion about what can be done to correct this lopsided gender distribution This reference work will be an essential guide for government professionals students and researchers in the ICT field looking to develop a solution to equalize the retention rate of women in these related fields [The Politics of Parametricism](#) Matthew Poole, Manuel Shvartzberg, 2015-10-22 Over the last decade parametricism has been heralded as a new avant garde in the industries of architecture urban design and industrial design regarded by many as the next grand style in the history of architecture heir to postmodernism and deconstruction From buildings to cities the built environment is increasingly addressed designed and constructed using digital software based on parametric scripting platforms which claim to be able to process complex physical and social modelling alike As more and more digital tools are developed into an apparently infinite repertoire of socio technical functions critical questions concerning these cultural and technological shifts are often eclipsed by the seductive aesthetic and the alluring futuristic imaginary that parametric design tools and their architectural products and discourses represent The Politics of Parametricism addresses these issues offering a collection of new essays written by leading international thinkers in the fields of digital design architecture theory and technology Exploring the social political ethical and philosophical issues at stake in the history practice and processes of parametric architecture and urbanism each chapter provides different vantage points to interrogate the challenges and opportunities presented by this latest mode of technological production **Disastrous High-Tech Decision Making** Frederick F. Lighthall, 2016-03-31 Disastrous High Tech Decision Making From Disasters to Safety offers new insights for scholars studying management decision making cognition in the wild and safety in the context of imperatives to continue operations This book takes you inside the deliberations and action that have produced high tech disasters in safety critical enterprises From primary data and analyses never before considered in scholarly assessments of the Challenger disaster Frederick F Lighthall Professor Emeritus at The University of Chicago applies the insights of macroergonomics social psychology naturalistic decision making and legal

argumentation to this expanded set of documents and data He argues that the Challenger case represents a prototype of decision making that arises whenever a possibly threatening change in operating conditions becomes evident In this situation inevitable in boundarypushing enterprises four generic decision making pitfalls await engineers and managers who must decide whether continuing to operate is safe or dangerous These four decision making vulnerabilities are also evident Lighthall argues in the decision situations of other high tech disasters both similar the Columbia shuttle and dissimilar Deepwater Horizon oil spill disaster In Part I of the book Lighthall traces decision participants chart by chart deliberations and argument about whether proceeding with the Challenger s launch would be dangerous Part II analyzes from contrasting perspectives the dynamics revealed in the narrative Lighthall s analysis ends by examining the demanding changes in outlook knowledge disciplines and learning processes required for safety to compete with the production imperatives of high tech enterprises operating in unforgiving environments This book is a must read both for students of management and of engineering who may find themselves working in these high tech settings and for managers and engineers who now work in these settings

Sustainability, Eco-efficiency, and Conservation in Transportation Infrastructure Asset Management Massimo Losa, Tom Papagiannakis, 2014-04-28 Worldwide there is a growing interest in efficient planning and the design construction and maintenance of transportation facilities and infrastructure assets The 3rd International Conference on Transportation Infrastructure ICTI 2014 Pisa April 22-25 2014 contains contributions on sustainable development and preservation of transportation infrastructure assets with a focus on eco efficient and cost effective measures Sustainability Eco efficiency and Conservation in Transportation Infrastructure Asset Management includes a selection of peer reviewed papers on a wide variety of topics Advanced modeling tools LCA LCC BCA performance prediction design tools and systems Data management monitoring and evaluation Emerging technologies and equipments Innovative strategies and practices Environmental sustainability issues Eco friendly design and materials Re use or recycling of resources Pavements tracks and structures Case studies Sustainability Eco efficiency and Conservation in Transportation Infrastructure Asset Management will be particularly of interest to academics researchers and practitioners involved in sustainable development and maintenance of transportation infrastructure assets

Transmission, Distribution, and Renewable Energy Generation Power Equipment Bella H. Chudnovsky, 2017-03-07 The revised edition presents extends and updates a thorough analysis of the factors that cause and accelerate the aging of conductive and insulating materials of which transmission and distribution electrical apparatus is made New sections in the second edition summarize the issues of the aging reliability and safety of electrical apparatus as well as supporting equipment in the field of generating renewable energy solar wind tide and wave power When exposed to atmospheric corrosive gases and fluids contaminants high and low temperatures vibrations and other internal and external impacts these systems deteriorate eventually the ability of the apparatus to function properly is destroyed In the modern world of green energy the equipment providing clean electrical energy needs to be properly

maintained in order to prevent premature failure The book's purpose is to help find the proper ways to slow down the aging of electrical apparatus improve its performance and extend the life of power generation transmission and distribution equipment

Progress Toward Restoring the Everglades National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Water Science and Technology Board, Committee on Independent Scientific Review of Everglades Restoration Progress, 2017-04-07 The Everglades ecosystem is vast stretching more than 200 miles from Orlando to Florida Bay and Everglades National Park is but a part located at the southern end During the 19th and 20th centuries the historical Everglades has been reduced to half of its original size and what remains is not the pristine ecosystem many image it to be but one that has been highly engineered and otherwise heavily influenced and is intensely managed by humans Rather than slowly flowing southward in a broad river of grass water moves through a maze of canals levees pump stations and hydraulic control structures and a substantial fraction is diverted from the natural system to meet water supply and flood control needs The water that remains is polluted by phosphorus and other contaminants originating from agriculture and other human activities Many components of the natural system are highly degraded and continue to degrade Progress Toward Restoring the Everglades is the sixth biennial review of progress made in meeting the goals of the Comprehensive Everglades Restoration Plan CERP This complex multibillion dollar project to protect and restore the remaining Everglades has a 30 40 year timeline This report assesses progress made in the various separate project components and discusses specific scientific and engineering issues that may impact further progress According to Progress Toward Restoring the Everglades a dedicated source of funding could provide ongoing long term system wide monitoring and assessment that is critical to meeting restoration objectives This report examines the implications of knowledge gained and changes in widely accepted scientific understanding regarding pre drainage hydrology climate change and the feasibility of water storage since the CERP was developed

When China Goes to the Moon... Marco Aliberti, 2015-07-04 This book is about China's ambitions in its most complex and internationally visible space endeavor namely its human space exploration programme It provides a comprehensive reflection on China's strategic direction and objectives in space including in particular those set forth in its human spaceflight programme and analyses the key domestic and external factors affecting the country's presumed manned lunar ambitions The objective of the book is to disentangle the opportunities and challenges China's space ambitions are creating for other spacefaring nations and for Europe in particular It therefore includes an in depth analysis of possible European postures towards China in space exploration and seeks to stimulate a debate on future space strategies in the broader context of world politics

A Vulnerable System Andrew J. Stewart, 2021-09-15 As threats to the security of information pervade the fabric of everyday life A Vulnerable System describes how even as the demand for information security increases the needs of society are not being met The result is that the confidentiality of our personal data the integrity of our elections and the stability of foreign relations between countries

are increasingly at risk Andrew J Stewart convincingly shows that emergency software patches and new security products cannot provide the solution to threats such as computer hacking viruses software vulnerabilities and electronic spying Profound underlying structural problems must first be understood confronted and then addressed A Vulnerable System delivers a long view of the history of information security beginning with the creation of the first digital computers during the Cold War From the key institutions of the so called military industrial complex in the 1950s to Silicon Valley start ups in the 2020s the relentless pursuit of new technologies has come at great cost The absence of knowledge regarding the history of information security has caused the lessons of the past to be forsaken for the novelty of the present and has led us to be collectively unable to meet the needs of the current day From the very beginning of the information age claims of secure systems have been crushed by practical reality The myriad risks to technology Stewart reveals cannot be addressed without first understanding how we arrived at this moment A Vulnerable System is an enlightening and sobering history of a topic that affects crucial aspects of our lives

Commercial Aviation Cyber Security Terry Lee Davis,2016-12-31 In the next decade commercial aviation will see Next Generation ATM NextGEN Single European Skies ATM Research SESAR and others utilizing Internet based air to ground communication links for advanced air traffic control ATC communications Commercial Aviation Cyber Security Current State and Essential Reading highlights some of the major issues the industry must confront if the vision of a new advanced air traffic management is to come to fruition This will require standardization work to identify key components with built in cyber security that will guide prototype testing functionality and prioritizing implementation efforts to solve the roadblocks to global interoperability The ten technical papers selected for Commercial Aviation Cyber Security Current State and Essential Reading span the last decade s work in commercial aviation cyber security and aircraft cyber technologies Cyber security cannot be bolted on as an after thought as commercial aviation begins to move to the automated management of national airspaces

Food Processing Stephanie Clark,Stephanie Jung,Buddhi Lamsal,2014-06-03 FOOD PROCESSING Food Processing Principles and Applications Second Edition is the fully revised new edition of this best selling food technology title Advances in food processing continue to take place as food scientists and food engineers adapt to the challenges imposed by emerging pathogens environmental concerns shelf life quality and safety as well as the dietary needs and demands of humans In addition to covering food processing principles that have long been essential to food quality and safety this edition of Food Processing Principles and Applications unlike the former edition covers microbial enzyme inactivation kinetics alternative food processing technologies as well as environmental and sustainability issues currently facing the food processing industry The book is divided into two sections the first focusing on principles of food processing and handling and the second on processing technologies and applications As a hands on guide to the essential processing principles and their applications covering the theoretical and applied aspects of food processing in one accessible volume this book is a valuable tool for food industry professionals across all

manufacturing sectors and serves as a relevant primary or supplemental text for students of food science *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 **Simulation-Based Usability Evaluation of Spoken and Multimodal Dialogue Systems** Stefan Hillmann, 2017-11-23 This book describes an extension of the user behaviour simulation UBS of an existing tool for automatic usability evaluation AUE This extension is based upon a user study with a smart home system It uses technical sociological methods for the execution of the study and the analysis of the collected data A comparison of the resulting UBS with former UBSs as well as the empirical data shows that the new simulation approach outperforms the former simulation The improvement affects the prediction of dialogue metrics that are related to dialogue efficiency and dialogue effectiveness Furthermore the book describes a parameter based data model as well as a related framework Both are used to uniformly describe multimodal human computer interactions and to provide such descriptions for usability evaluations Finally the book proposes a new two stage method for the evaluation of UBSs The method is based on the computation of a distance measures between two dialogue corpora and the pair wise comparison of distances among several dialogue corpora **The United States Government Manual 2013** Office of the Federal Register (U S), Office of the Federal Register (U.S.) Staff, 2013-10-19 NOTE NO FURTHER DISCOUNTS ON THIS ITEM OVERSTOCK SALE Significantly reduced list price while supplies last The US Government Manual is known as the Official handbook of the Federal Government This annual resource provides comprehensive information on the agencies of the legislative judicial and executive branches as well as quasi official agencies international organizations in which the United States participates boards commissions and committees Each agency's description consists of a list of principal officials a summary statement of the agency's purpose and role in the Federal Government a brief history of the agency including its legislative or executive authority and a description of consumer activities contracts and grants employment and publications A typical agency description includes a list of principal officials a summary statement of the agency's purpose and role in the Federal Government a brief history of the agency including its legislative or executive authority a description of its programs and activities and a Sources of Information section This last section provides information on consumer activities contracts

and grants employment publications and many other areas of public interest This annual reference book is an invaluable resource for anyone interested in the organization and function of the United States Federal Government agencies and quasi agency organizations that may receive Federal appropriated funds for some of their operations Other related resources United States Government Policy and Supporting Positions 2012 Plum Book Print Paperback format can be found here <https://bookstore.gpo.gov/products/sku/052-070-07648-8>

A Trust Betrayed Mike Magner, 2014-03-11 Builds the case against the U S military looking the other way for two decades amidst allegations of mass poisoning at Camp Lejeune which is believed to have caused illness and death among Marine families stationed there 35 000 first printing

Robotics in STEM Education Myint Swe Khine, 2017-07-10 This book describes recent approaches in advancing STEM education with the use of robotics innovative methods in integrating robotics in school subjects engaging and stimulating students with robotics in classroom based and out of school activities and new ways of using robotics as an educational tool to provide diverse learning experiences It addresses issues and challenges in generating enthusiasm among students and revamping curricula to provide application focused and hands on approaches in learning The book also provides effective strategies and emerging trends in using robotics designing learning activities and how robotics impacts the students interests and achievements in STEM related subjects The frontiers of education are progressing very rapidly This volume brought together a collection of projects and ideas which help us keep track of where the frontiers are moving This book ticks lots of contemporary boxes STEM robotics coding and computational thinking among them Most educators interested in the STEM phenomena will find many ideas in this book which challenge provide evidence and suggest solutions related to both pedagogy and content Regular reference to 21st Century skills achieved through active collaborative learning in authentic contexts ensures the enduring usefulness of this volume John Williams Professor of Education and Director of the STEM Education Research Group Curtin University Perth Australia

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