

DEPARTMENT OF HIGHER EDUCATION AND TRAINING
REPUBLIC OF SOUTH AFRICA
NATIONAL CERTIFICATE
ENGINEERING SCIENCE NS
TIME: 3 HOURS
MARKS: 100

INSTRUCTIONS AND INFORMATION

1. Answer ALL the questions.
 2. All calculations should consist of at least THREE steps:
 - 2.1 The formula used in manipulation.
 - 2.2 Substitution of the given data in the formula.
 - 2.3 The answer with the correct SI unit.
 3. The constant values, as they appear in the attachment information sheet, must be used whenever possible.
 4. Number the answers according to the numbering system used in this question paper.
 5. Keep sub-sections of questions together.
 6. Rule off on completion of each question.
 7. Drawing instruments must be used for all drawings/diagrams. All drawings/diagrams must be fully labelled.
 8. Use $g = 9,8 \text{ ms}^{-2}$.
 9. Answers must be rounded off to THREE decimal places.
 10. Write neatly and legibly.
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Engineering Science N3 2 April 2014 Memorandum

Jason J. Blackstock, Sean Low



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Life of Permafrost Pey-Yi Chu, 2021-01-04 By tracing the English word permafrost back to its Russian roots this unique intellectual history uncovers the multiple contested meanings of permafrost as a scientific idea and environmental phenomenon

A World of Wounds Nancy J. Manring, 2025-11-04 At the end of the Reagan administration American public opinion polls showed there were no discernible differences based on political party in response to the question Do you consider yourself an environmentalist However in the early 1990s a partisan gulf between conservatives and liberals emerged around environmental issues Today half as many Republicans self identify as environmentalists when compared to Democrats Political stagnation on climate action in turn has led to a growing number of Americans of all ages who experience ecological grief known as solastalgia and eco anxiety a chronic fear of environmental doom These emotions emerged in response to the existential distress associated with living in a world of relentless environmental damage and irreversible ecological losses a world of wounds This book offers an antidote to political frustration and hopelessness Nancy J Manring provides an indispensable analysis of the multi decade conservative war against American environmentalism and maps out realistic strategies for rebuilding a bipartisan environmental movement Nurturing authentic hope in contrast to blind optimism or false promises begins with an unflinching look at both planetary and political realities Choosing authentic hope is an ongoing process that requires emotional honesty courage and action This forceful book serves as both a tool for change and a spirited scholarly intervention

The Closing of the Liberal Mind Kim R. Holmes, 2016-04-12 A former U S Assistant Secretary of State and currently a Distinguished Fellow at the Heritage Foundation Kim R Holmes surveys the state of liberalism in America today and finds that it is becoming its opposite illiberalism abandoning the precepts of open mindedness and respect for individual rights liberties and the rule of law upon which the country was founded and becoming instead an intolerant rigidly dogmatic ideology that abhors dissent and stifles free speech Tracing the new illiberalism historically to the radical Enlightenment a movement that rejected the classic liberal ideas of the moderate Enlightenment that were prominent in the American Founding Holmes argues that today s liberalism has forsaken its American roots incorporating instead the authoritarian anti clerical and anti capitalist prejudices of the radical and largely European Left The result is a closing of the American liberal mind Where once freedom of speech and expression were sacrosanct today liberalism employs speech codes trigger warnings boycotts and shaming rituals to stifle freedom of thought expression and action It is no longer appropriate to call it liberalism at all but illiberalism a set of ideas in politics government and popular culture that increasingly reflects authoritarian and even anti democratic values and which is devising new strategies of exclusiveness to eliminate certain ideas and people from the political process Although illiberalism has always been a temptation for American liberals lurking in the radical fringes of the Left it is today the dominant ideology of progressive liberal circles This makes it a new danger not only to the once venerable tradition of liberalism but to the American nation

itself which needs a viable liberal tradition that pursues social and economic equality while respecting individual liberties

Indefensible Paul Holden, 2016-09-15 Although there is often opposition to individual wars most people continue to believe that the arms industry is necessary in some form to safeguard our security provide jobs and stimulate the economy Not only conservatives but many progressives and liberals support it for these reasons *Indefensible* puts forward a devastating challenge to this conventional wisdom which has normalised the existence of the most savage weapons of mass destruction ever known It is the essential handbook for those who want to debunk the arguments of the industry and its supporters deploying case studies statistics and irrefutable evidence to demonstrate they are fundamentally flawed both factually and logically Far from protecting us the book shows how the arms trade undermines our security by fanning the flames of war terrorism and global instability In countering these myths the book points to ways in which we can combat the arms trade s malignant influence reclaim our democracies and reshape our economies *Women in Science Now* Lisa M. P. Munoz, 2023-10-31 Silver Medal in the Social Change and Social Justice Category 2024 Nautilus Book Awards Winner 2024 Choice Outstanding Academic Title Women working in the sciences face obstacles at virtually every step along their career paths From subtle slights to blatant biases deep systemic problems block women from advancing or push them out of science and technology entirely *Women in Science Now* examines solutions to this persistent gender gap offering new perspectives on how to make science more equitable and inclusive for all This book shares stories and insights of women from a range of backgrounds working in various disciplines illustrating the journeys that brought them to the sciences the challenges they faced along the way and the important contributions they have made to their fields Lisa M P Munoz combines these narratives with a wealth of data to illuminate the size and scope of the challenges women scientists face while highlighting research based solutions to help overcome these obstacles She presents groundbreaking studies in social psychology and organizational behavior that are informing novel approaches for combating historic and ongoing inequities Through a combined focus on personal experiences and social science research this timely book provides both a path toward greater gender equity and an inspiring vision of science and scientists **New Insights on Oscillators and Their Applications to Engineering and Science** Jose M. Balthazar, Angelo M. Tusset, 2024-03-20 Over the years the construction of models has played an important part in the discovery and dissemination of knowledge The study of problems involving the coupling of several systems has been widely explored essentially in the function of the change of constructive characteristics of machines and structures Accordingly vibrating oscillatory processes can be divided into the following types free forced parametric and self excited oscillations Furthermore two or more oscillations can interact in the same oscillatory system This book provides a comprehensive overview of oscillators and their applications It includes eight chapters organized into three sections MEMS and NEMS Vibrations and Modeling **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

Shared Governance for Sustainable Working Landscapes Timothy M. Gieseke, 2016-08-05 Sustaining our agricultural landscapes is no longer just a technical scientific or even political problem but it has evolved into a socially complex so called wicked problem of conflicting social governance and economics This creates an extreme economic obstacle where the value of ecosystem services remains low and diffuse and the transactions costs remain high and multiple Using Uber like business platform technology and a shared governance model a symbiotic demand for environmental benefits is created Enabling multi sector transactions for environmental benefits this platform innovation would remedy the tragedy of the commons the economic nemesis to achieving landscape sustainability In a nutshell to sustain our agricultural landscapes a transdisciplinary approach supported by a shared governance model housed within a multi sided platform is needed This book introduces an assessment framework identifying governance actors styles and ratios for socio ecological systems The assessment uses a new governance compass to identify the types of actors completing which tasks and identifies the styles of

governance used to complete the tasks It is aimed to anyone involved in sustainability science agricultural policy planning or integrated landscape design

New Lines Matthew W. Wilson, 2017-11-15 *New Lines* takes the pulse of a society increasingly drawn to the power of the digital map examining the conceptual and technical developments of the field of geographic information science as this work is refracted through a pervasive digital culture Matthew W Wilson draws together archival research on the birth of the digital map with a reconsideration of the critical turn in mapping and cartographic thought Seeking to bridge a foundational divide within the discipline of geography between cultural and human geographers and practitioners of Geographic Information Systems GIS Wilson suggests that GIS practitioners may operate within a critical vacuum and may not fully contend with their placement within broader networks the politics of mapping the rise of the digital humanities the activist possibilities of appropriating GIS technologies and more Employing the concept of the drawn and traced line Wilson treads the theoretical terrain of Deleuze Guattari and Gunnar Olsson while grounding their thoughts with the hybrid impulse of the more than human thought of Donna Haraway What results is a series of interventions fractures in the lines directing everyday life that provide the reader with an opportunity to consider the renewed urgency of forceful geographic representation These five fractures are criticality digitality movement attention and quantification *New Lines* examines their traces to find their potential and their necessity in the face of our frenetic digital life

Captured Senator Sheldon Whitehouse, 2019-05-21 A leading member of the Senate Judiciary Committee spells out in considerable detail the extent of corporate influence over a variety of issues in national politics *The New Yorker* As a U S senator and former federal prosecutor Sheldon Whitehouse has had a front row seat for the spectacle of dark money in government In his widely praised book *Captured* he describes how corporations buy influence over our government not only over representatives and senators but over the very regulators directly responsible for enforcing the laws under which these corporations operate and over the judges and prosecutors who are supposed to be vigilant about protecting the public interest In a case study that shows these operations at work Whitehouse reveals how fossil fuel companies have held any regulation related to climate change at bay The problem is structural as *Kirkus Reviews* wrote many of the ills it illuminates are bipartisan This paperback edition features a new preface by the author that reveals how corporate influence has taken advantage of Donald Trump's presidency to advance its agenda and what we can do about it

Let There Be Light! Robert S. Dutch, 2017-06-16 Have you ever wondered what it is like to work on a nuclear power plant Robert Dutch worked in the UK's nuclear industry for many years as a scientist and then as a tutor at a nuclear training center He also holds degrees in theology Drawing upon his qualifications and experience Robert addresses the controversial issue of nuclear power from a Christian perspective In contrast to a negative nuclear narrative often portrayed he presents a positive nuclear narrative alongside other ways of generating electricity Be prepared to be challenged to think seriously about nuclear's merits in providing clean low carbon electricity

Engineering Tools for Environmental Risk Management Katalin Gruiz, Tamás

Meggyes,Éva Fenyvesi,2019-01-08 The four volumes of the book series Engineering Tools for Environmental Risk Management deal with environmental management assessment monitoring tools environmental toxicology and risk reduction technologies This last volume focuses on engineering solutions usually needed for industrial contaminated sites where nature s self remediation is inefficient or too slow The success of remediation depends on the selection of an increasing number of conventional and innovative methods This volume classifies the remedial technologies and describes the reactor approach to understand and manage in situ technologies similarly to reactor based technologies Technology types include physicochemical biological or ecological solutions where near natural sustainable remediation has priority A special chapter is devoted to natural attenuation where natural changes can help achieve clean up objectives Natural attenuation and biological and ecological remediation establish a serial range of technologies from monitoring only to fully controlled interventions using just the natural ecosystem or sophisticated artificial living systems Passive artificial ecosystems and biodegradation based remediation in addition to natural attenuation demonstrate the use of these green technologies and how engineering intervention should be kept at a minimum to limit damage to the environment and create a harmonious ecosystem Remediation of sites contaminated with organic substances is analyzed in detail including biological and physicochemical methods Comprehensive management of pollution by inorganic contaminants from the mining industry leaching and bioleaching and acid mine drainage is studied in general and specifically in the case of an abandoned mine in Hungary where the innovative technology of combined chemical and phytostabilization has been applied The series of technologies is completed by electrochemical remediation and nanotechnologies Monitoring verification and sustainability analysis of remediation provide a comprehensive overview of the management aspect of environmental risk reduction by remediation This book series focuses on the state of knowledge about the environment and its conscious and structured application in environmental engineering management and decision making

The Military Revolution and Revolutions in Military Affairs Mark Fissel,2022-12-05 The Military Revolution and Revolutions in Military Affairs updates two central debates in military history the one surrounding the concept of military revolution and the one on military affairs whilst advancing original research in both fields Only a handful of publications consider the military revolution and the RMA in tandem This book breaks new ground conceptually and appeals to an exceptionally large and diverse readership Comparative revisionist studies of the military revolution and RMA better enable us to comprehend the historical continuum and reveal the new RMA for what it is And for what it is shortly to become This book presents original contributions within the epicentre of the military revolution debate the 1500s with an emphasis on gunpowder revolution offensively and defensively The connections with the Revolution in Military Affairs are then made explicit by scholars a practitioner and an analyst with an emphasis on airborne lethal autonomous weapons systems This is a chronologically broad and unique methodological approach to a historical debate that begs for clarification as we enter an era where killer robots will almost certainly take

from humans their monopoly on violence Information in War Benjamin M. Jensen, Christopher Whyte, Scott Cuomo, 2022

Will Artificial Intelligence Change War An Information Theory of Military Innovation The Uncertain Rise of Radar and the First True Battle Networks 1902 1941 Creating the First Computerized Battle Networks with the Semi Automated Ground Environment SAGE 1948 1956 Intra Service Competition and Dueling Views on the Revolution in Military Affairs RMA 1980 2000 The Global Battle Network and the Revolution in Armed Remotely Piloted Aircraft RPA 1993 2001 Using the Past to Think About Artificial Intelligence Futures *The Cloud Revolution* Mark P. Mills, 2021-11-02 The conventional wisdom on how technology will change the future is wrong Mark Mills lays out a radically different and optimistic vision for what's really coming The mainstream forecasts fall into three camps One considers today as the new normal where ordering a ride or food on a smartphone or trading in bitcoins is as good as it's going to get Another foresees a dystopian era of widespread digitally driven job and business destruction A third believes that the only technological revolution that matters will be found with renewable energy and electric cars But according to Mills a convergence of technologies will instead drive an economic boom over the coming decade one that historians will characterize as the Roaring 2020s It will come not from any single big invention but from the confluence of radical advances in three primary technology domains microprocessors materials and machines Microprocessors are increasingly embedded in everything Materials from which everything is built are emerging with novel almost magical capabilities And machines which make and move all manner of stuff are undergoing a complementary transformation Accelerating and enabling all of this is the Cloud history's biggest infrastructure which is itself based on the building blocks of next generation microprocessors and artificial intelligence We've seen this pattern before The technological revolution that drove the great economic expansion of the twentieth century can be traced to a similar confluence one that was first visible in the 1920s a new information infrastructure telephony new machines cars and power plants and new materials plastics and pharmaceuticals Single inventions don't drive great long cycle booms It always takes convergent revolutions in technology's three core spheres information materials and machines Over history that's only happened a few times We have wrung much magic from the technologies that fueled the last long boom But the great convergence now underway will ignite the 2020s And this time unlike any previous historical epoch we have the Cloud amplifying everything The next long boom starts now *Bridging the Theory-Practice Divide in International Relations* Daniel Maliniak, Susan Peterson, Ryan Powers, Michael J. Tierney, 2020-05-01 There is a widening divide between the data tools and knowledge that international relations scholars produce and what policy practitioners find relevant for their work In this first of its kind conversation leading academics and practitioners reflect on the nature and size of the theory practice divide They find the gap varies by issue area and over time The essays in this volume use data gathered by the Teaching Research and International Policy TRIP Project over a fifteen year period As a whole the volume analyzes the structural factors that affect the academy's ability to influence policy across issue areas and the professional incentives that affect

scholars willingness to attempt to do so Individual chapters explore these questions in the areas of trade finance human rights development environment nuclear weapons and strategy interstate war and intrastate conflict Each substantive chapter is followed by a response from a policy practitioner providing their perspective on the gap and the possibility for academic work to have an impact Bridging the Theory Practice Divide in International Relations provides concrete answers and guidance about how and when scholarship can be policy relevant

Geoengineering our Climate? Jason J.

Blackstock, Sean Low, 2018-09-04 If the detrimental impacts of human induced climate change continue to mount technologies for geoengineering our climate i.e. deliberate modifying of the Earth's climate system at a large scale are likely to receive ever greater attention from countries and societies worldwide Geoengineering technologies could have profound ramifications for our societies and yet agreeing on an international governance framework in which even serious research into these planetary altering technologies can take place presents an immense international political challenge In this important book a diverse collection of internationally respected scientists philosophers legal scholars policymakers and civil society representatives examine and reflect upon the global geoengineering debate they have helped shape Opening with essays examining the historic origins of contemporary geoengineering ideas the book goes on to explore varying perspectives from across the first decade of this global discourse since 2006 These essays methodically cover the practical and ethical dilemmas geoengineering poses the evolving geoengineering research agenda the challenges geoengineering technologies present to current international legal and political frameworks and differing perceptions of geoengineering from around the world The book concludes with a series of forward looking essays some drawing lessons from precedents for governing other global issues others proposing how geoengineering technologies might be governed if as they begin to emerge from the lab into the real world This book is an indispensable resource for scientists activists policymakers and political figures aiming to engage in the emerging debate about geoengineering our climate

Best Practices in Bibliometrics & Bibliometric Services

Juan Ignacio Gorraiz, Rafael Repiso, Nicola De Bellis, Gernot Deinzer, 2022-01-06

Privacy, Security and Accountability

Adam D. Moore, 2015-12-02 What is the appropriate balance between privacy security and accountability What do we owe each other in terms of information sharing and access Why is privacy valuable and is it more or less important than other values like security or free speech Is Edward Snowden a hero or villain Within democratic societies privacy security and accountability are seen as important values that must be balanced appropriately If there is too much privacy then there may be too little accountability and more alarmingly too little security On the other hand where there is too little privacy individuals may not have the space to grow experiment and engage in practices not generally accepted by the majority Moreover allowing overly limited control over access to and uses of private places and information may itself be a threat to security By clarifying the moral legal and social foundations of privacy security and accountability this book helps determine the appropriate balance between these contested values Twelve specially commissioned essays provide the ideal resource for

students and academics in information and applied ethics

Regional Renaissance Charles W. Wessner, Thomas R.

Howell, 2019-09-14 This book examines ways in which formerly prosperous regions can renew their economy during and after a period of industrial and economic recession Using New York's Capital Region i.e Albany Troy Schenectady etc as a case study the authors show how entrepreneurship innovation investment in education research and political collaboration are critical to achieving regional success In this way the book provides other regions and nations with a real life model for successful economic development In the past half century the United States and other nations have seen an economic decline of formerly prosperous regions as a result of new technology and globalization One of the hardest hit United States regions is Upstate New York or the Capital Region it experienced a demoralizing hemorrhage of manufacturing companies jobs and people to other regions and countries To combat this the region with the help of state leaders mounted a decades long effort to renew and restore the region's economy with a particular focus on nanotechnology As a result New York's Capital Region successfully added thousands of well paying skill intensive manufacturing jobs New York's success story serves as a model for economic development for policy makers that includes major public investments in educational institutions and research infrastructure partnerships between academia industry and government and creation of frameworks for intra regional collaboration by business government and academic actors Featuring recommendations for best practices in regional development policy this book is appropriate for scholars students researchers and policy makers in regional development innovation R D policy economic development and economic growth

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