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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 Memo April 2014

Jose M. Balthazar, Angelo M. Tusset



Engineering Science Memo April 2014:

Environmental Water Markets and Regulation Katherine Owens, 2016-11-18 River systems around the world are degraded and are being used unsustainably Meeting this challenge requires the development of flexible regimes that have the potential to meet essential consumptive needs while restoring environmental flows This book focuses on how water trading frameworks can be repurposed for environmental water recovery and aims to conceptualise the most appropriate role for law in supporting recovery through these frameworks The author presents a comprehensive study of the legal frameworks in four jurisdictions the States of Oregon and Colorado in the western United States the province of Alberta in Canada and the Murray Darling Basin in Australia Basin State of New South Wales A close comparative analysis of these four jurisdictions reveals a variety of distinctive regulatory arrangements and collaborations between public and private actors In all cases the law has been deployed to steer and coordinate these water governance activities The book argues that each regime is based on a particular regulatory strategy with different conceptions of the appropriate roles for and relationships between various actors and institutions Legal frameworks do not have the capacity to rationalise and provide an overarching and absolute solution to the complex environmental and governance issues that arise in the context of environmental water transactions Rather the role of law in this context needs to be reconceptualised within the paradigm of regulatory capitalism as establishing and maintaining the limits within which regulatory participants can operate innovate and collaborate **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 **Production Management and Engineering Sciences**

Milan Majerník, Naqib Daneshjo, Martin Bosák, 2015-11-09 These are the proceedings of the International Conference on Engineering Science and Production Management 16th 17th April 2015 Tatranská Trava High Tatras Mountains Slovak Republic The proceedings contain articles focusing on Production Management Logistics Industrial development sustainable production Planning management and pr Biometrics in Support of Military Operations William C. Buhrow, 2016-11-25

Biometrics in Support of Military Operations Lessons from the Battlefield examines and evaluates recent U S military experiences in Iraq and Afghanistan in the context of the use of biometrics and related technologies The book takes a comprehensive look at how biometrics has been used to support various military operations and suggests ways that its uses can be further developed It fills a void in understanding how to incorporate biometrics by providing a guide to develop and establish formal operational roles and procedures when applying the technology Written in an informal style that makes it

accessible to people who are not necessarily operators or technicians of biometrics technologies this book bridges an existing gap to better educate leaders inside and outside of the U S military on the far reaching potential of biometrics in support of tactical operations It argues that the gap between those inside and outside the military is the result of failure to document lessons learned from battle experience as well as a lack of a combined vision among the Joint Forces to fully recognize and exploit the capabilities of biometrics for enhanced future success This book fills that gap Biometrics has great potential as an effective tool if properly developed and utilized The book concludes with a look at the future of emerging applications for the military but also considers a wider range of deployment of biometrics outside the military such as in governmental organizations including foreign diplomacy Biometrics can be applied to any operational area that requires accurate and rapid identification of unknown individuals in order to support its operations and protect personnel and resources Biometrics in Support of Military Operations is an important beginning point in an emerging field for gaining understanding and better mastery of biometrics

Care and Repair of Advanced Composites Keith B Armstrong, William Cole, Eric Chesmar, Francois Museux, 2020-12-31 The new edition of the well known Care and Repair of Advanced Composites 3rd Edition improves on the usefulness of this practical guide geared towards the aerospace industry Keith B Armstrong the original lead author of the first edition was still in charge of this project counting on the expert support of Eric Chesmar senior composites specialist at United Airlines Mr Chesmar is also an active member of SAE International's CACRC Commercial Aircraft Composite Repair Committee an elite group of industry experts dedicated to the standardization safety security and efficiency of composite repairs in the airline industry Mr Francois Museux Airbus and Mr William F Cole II also contributed Care and Repair of Advanced Composites 3rd Edition presents a fully updated approach to the training syllabus recommended for repair design engineers and composite repair mechanics Metal bonding has been included partly because the definition of composite can be interpreted to include metal skinned honeycomb panels and partly because some composite parts have metal fittings or reinforcements that must be treated before bonding This third edition also covers a number of the problems experienced in service some of which may be applicable to metallic sandwich panels offers suggestions for design improvements including repair design as a particular topic and regulatory changes Care and Repair of Advanced Composites 3rd Edition provides solid technical information and training for a wide range of airline staff

NASA Technical Memorandum, 1976

The Semantic Web - ISWC 2016 Paul Groth, Elena Simperl, Alasdair Gray, Marta Sabou, Markus Krötzsch, Freddy Lecue, Fabian Flöck, Yolanda Gil, 2016-10-05 The two volume set LNCS 9981 and 9982 constitutes the refereed proceedings of the 15th International Semantic Web Conference ISWC 2016 which was held in Kobe Japan in October 2016 The 75 full papers presented in these proceedings were carefully reviewed and selected from 326 submissions The International Semantic Web Conference is the premier forum for Semantic Web research where cutting edge scientific results and technological innovations are presented where problems and solutions are discussed and where the future of this vision is being developed

It brings together specialists in fields such as artificial intelligence databases social networks distributed computing Web engineering information systems human computer interaction natural language processing and the social sciences The Research Track solicited novel and significant research contributions addressing theoretical analytical empirical and practical aspects of the Semantic Web The Applications Track solicited submissions exploring the benefits and challenges of applying semantic technologies in concrete practical applications in contexts ranging from industry to government and science The newly introduced Resources Track sought submissions providing a concise and clear description of a resource and its expected usage Traditional resources include ontologies vocabularies datasets benchmarks and replication studies services and software Besides more established types of resources the track solicited submissions of new types of resources such as ontology design patterns crowdsourcing task designs workflows methodologies and protocols and measures

Telecommunications Research and Engineering at the Communications Technology Laboratory of the Department of Commerce National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Committee on Telecommunications Research and Engineering at the Department of Commerce's Boulder Laboratories, 2015-11-30 The Department of Commerce operates two telecommunications research laboratories located at the Department of Commerce's Boulder Colorado campus the National Telecommunications and Information Administration's NTIA's Institute for Telecommunications Sciences ITS and the National Institute of Standards and Technology's NIST's Communications Technology Laboratory CTL CTL develops appropriate measurements and standards to enable interoperable public safety communications effective and efficient spectrum use and sharing and advanced communication technologies CTL is a newly organized laboratory within NIST formed mid 2014 As it is new and its planned work represents a departure from that carried out by the elements of which it was composed this study focuses on its available resources and future plans rather than past work The Boulder telecommunications laboratories currently play an important role in the economic vitality of the country and can play an even greater role given the importance of access to spectrum and spectrum sharing to the wireless networking and mobile cellular industries Research advances are needed to ensure the continued evolution and enhancement of the connected world the public has come to expect

ICCWS 2021 16th International Conference on Cyber Warfare and Security Dr Juan Lopez Jr, Dr Kalyan Perumalla, Dr Ambareen Siraj, 2021-02-25 These proceedings represent the work of contributors to the 16th International Conference on Cyber Warfare and Security ICCWS 2021 hosted by joint collaboration of Tennessee Tech Cybersecurity Education Research and Outreach Center CEROC Computer Science department and the Oak Ridge National Laboratory Tennessee on 25-26 February 2021 The Conference Co Chairs are Dr Juan Lopez Jr Oak Ridge National Laboratory Tennessee and Dr Ambareen Siraj Tennessee Tech's Cybersecurity Education Research and Outreach Center CEROC and the Program Chair is Dr Kalyan Perumalla from Oak Ridge National Laboratory Tennessee

Thinking Outside

the Box Keith G. Banting, Richard P. Chaykowski, Steven F. Lehrer, 2015-11-30 Building on the work presented in Styran and Taylor's This Great National Object which told the story of the first three Welland canals built in the nineteenth century This Colossal Project chronicles an impressive milestone in the history of Canadian technological achievement and nation building

Structural Integrity Cases in Mechanical and Civil Engineering Shahrum Abdullah, Salvinder Singh Karam Singh, Noorsuhada Md Nor, 2022-01-24 This book covers most of the damage mechanism in the scope of mechanical engineering and civil engineering The failure pattern of various materials and structures is mainly discussed The sub topics covers fatigue damage fatigue crack initiation and propagation life prediction techniques computational fracture mechanics dynamic fracture damage mechanics and assessment non destructive test NDT concrete failure assessment failure on soil structures structural durability and reliability structural health monitoring construction damage recovery and any relevant topics related to failure analysis

Principles and Application of Evidence-Based Public Health Practice Soundappan Kathirvel, Amarjeet Singh, Arun Chockalingam, 2023-08-04 Principles and Application of Evidence Based Public Health Practice helps clinicians who conduct population based studies in the community be aware of the principles and ethics involved in public health research Further the book helps social scientists involved in public health especially regarding the medical implication of public health practice Community based epidemiological research studies are vital for any public health activities be it evaluation of health programs health systems strengthening surveillance or preventive promotive trials in the community While hospital clinic based research is conducted in a very controlled setting community trials are more practical Community based studies require a fairly different set of ethical and epidemiological principles to be followed The same has been reiterated in the ethical guidelines for biomedical research on human subjects released by various national research organizations Facilitates an in depth understanding of basic principles of public health practice and its practical application Includes the basic principles of public health research and ethics Uses case studies to discuss the public health strategies and approaches to be considered during routine day to day practice and a public health emergency Helps build the capacity of public health practitioners with a futuristic view including technology based and precision public health practice

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 A Review of the Landscape Conservation Cooperatives National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Agriculture and Natural Resources, Board on Atmospheric Sciences and Climate, Committee on the Evaluation of the Landscape Conservation Cooperatives, 2016-11-28 The United States tradition of conserving fish wildlife habitats and cultural resources dates to the mid 19th century States have long sought to manage fish and wildlife species within their borders whereas many early federal conservation efforts focused on setting aside specific places as parks sanctuaries or reserves With advances in landscape ecology over the past quarter century conservation planners scientists and practitioners began to stress the importance of conservation efforts at the scale of landscapes and seascapes These larger areas were thought to harbor relatively large numbers of species that are likely to maintain population viability and sustain ecological processes and natural disturbance regimes often considered critical factors in conserving biodiversity By focusing conservation efforts at the level of whole ecosystems and landscape practitioners can better attempt to conserve the vast majority of species in a particular ecosystem Successfully addressing the large scale interlinked problems associated with landscape degradation will necessitate a planning process that bridges different scientific disciplines and across sectors as well as an understanding of complexity uncertainty and the local context of conservation work The landscape approach aims to develop shared conservation priorities across jurisdictions and across many resources to create a single collaborative conservation effort that can meet stakeholder needs Conservation of habitats species ecosystem services and cultural resources in the face of multiple stressors requires governance structures that can bridge the geographic and jurisdictional boundaries of the complex socio ecological systems in which landscape level conservation occurs The Landscape Conservation Cooperatives LCC Network was established to complement and add value to the many ongoing state tribal federal and nongovernmental efforts to address the challenge of conserving species habitats ecosystem services and cultural resources in the face of large scale and long term threats including climate change A Review of the Landscape Conservation Cooperatives evaluates the purpose goals and scientific merits of the LCC program within the context of similar programs and whether the program has resulted in measurable improvements in the health of fish wildlife and their habitats **The Case for Pandora** James M. Essig, Steve McCarter, 2017-01-12 This book is about building craft for space travel space travel not in the far distant future but in the immediate future There is no question that we have the technology to build and power a large craft capable of traversing the galaxy and for now this book will focus on achieving the goal of intragalactic travel We will describe various methods of power generation and propulsion delineate the materials and technology for construction discuss the building of the spacecraft from the outside in and show what is required to sustain life on the craft for extended periods of time While we will go into some detail on each of these pointing out advantages and disadvantages to components

and methods this is not nor is it intended to be a highly technical book to be used by specialists Rather it is intended to inform the general readership about what is possible and perhaps what is not in building and operating spacecraft for long distance and long duration travel with current and available means

Global Health Risk Framework National Academies of Sciences, Engineering, and Medicine, Institute of Medicine, Board on Global Health, Forum on Microbial Threats, 2016-06-11 Since the 2014 Ebola outbreak many public and private sector leaders have seen a need for improved management of global public health emergencies The effects of the Ebola epidemic go well beyond the three hardest hit countries and beyond the health sector Education child protection commerce transportation and human rights have all suffered The consequences and lethality of Ebola have increased interest in coordinated global response to infectious threats many of which could disrupt global health and commerce far more than the recent outbreak In order to explore the potential for improving international management and response to outbreaks the National Academy of Medicine agreed to manage an international independent evidence based authoritative multistakeholder expert commission As part of this effort the Institute of Medicine convened four workshops in summer of 2015 to inform the commission report The presentations and discussions from the Governance for Global Health Workshop are summarized in this report

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

Social and Behavioral Sciences for National Security National Academies of Sciences, Engineering, and Medicine, Division of Behavioral and Social Sciences and Education, Board on Behavioral, Cognitive, and Sensory Sciences, 2017-06-12 In the coming years complex domestic and international environments and challenges to national security will continue Intelligence analysts and the intelligence community will need access to the appropriate tools and developing knowledge about threats to national security in order to provide the best information to policy makers Research and knowledge from the social and behavioral sciences SBS can help inform the work of intelligence analysis however in the past bringing important findings from research to bear on the day to day work of intelligence analysis has been difficult In order to understand how knowledge from science can be directed and applied to help the intelligence community fulfill its critical responsibilities the National Academies of Sciences Engineering and Medicine will undertake a 2 year survey of the social and behavioral sciences To launch this discussion a summit designed to highlight cutting edge research and identify future directions for research in a few areas of the social and

behavioral sciences was held in October 2016 This publication summarizes the presentations and discussions from the summit

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

China as a Twenty-First Century Naval Power Michael A McDevitt, 2020-10-15 Xi Jinping has made his ambitions for the People's Liberation Army PLA perfectly clear there is no mystery what he wants first that China should become a great maritime power and secondly that the PLA become a world class armed force by 2050 He wants this latter objective to be largely completed by 2035 China as a Twenty First Century Naval Power focuses on China's navy and how it is being transformed to satisfy the world class goal Beginning with an exploration of why China is seeking to become such a major maritime power author Michael McDevitt first explores the strategic rationale behind Xi's two objectives China's reliance on foreign trade and overseas interests such as China's Belt and Road strategy In turn this has created concerns within the senior levels of China's military about the vulnerability of its

overseas interests and maritime life lines is a major theme McDevitt dubs this China's sea lane anxiety and traces how this has required the PLA Navy to evolve from a near seas focused navy to one that has global reach a blue water navy He details how quickly this transformation has taken place thanks to a patient step by step approach and abundant funding The more than 10 years of anti piracy patrols in the far reaches of the Indian Ocean has acted as a learning curve accelerator to blue water status McDevitt then explores the PLA Navy's role in the South China Sea and the Indian Ocean He provides a detailed assessment of what the PLAN will be expected to do if Beijing chooses to attack Taiwan potentially triggering combat with America's first responders in East Asia especially the U S Seventh Fleet and U S Fifth Air Force He conducts a close exploration of how the PLA Navy fits into China's campaign plan aimed at keeping reinforcing U S forces at arm's length what the Pentagon calls anti access and area denial A2 AD if war has broken out over Taiwan or because of attacks on U S allies and friends that live in the shadow of China McDevitt does not know how Xi defines world class but the evidence from the past 15 years of building a blue water force has already made the PLA Navy the second largest globally capable navy in the world This book concludes with a forecast of what Xi's vision of a world class navy might look like in the next fifteen years when the 2035 deadline is reached

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