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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.
-

Engineering Science Njuly Memorandum 2014

Carlos Guedes Soares,T.A. Santos



Engineering Science Njuly Memorandum 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

Review of WIC Food Packages National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Food and Nutrition Board, Committee to Review WIC Food Packages, 2017-05-25 The Special Supplemental Nutrition Program for Women Infants and Children WIC began 40 years ago as a pilot program and has since grown to serve over 8 million pregnant women and mothers of and their infants and young children Today the program serves more than a quarter of the pregnant women and half of the infants in the United States at an annual cost of about 6.2 billion Through its contribution to the nutritional needs of pregnant breastfeeding and post partum women infants and children under 5 years of age this federally supported nutrition assistance program is integral to meeting national nutrition policy goals for a significant portion of the U S population To assure the continued success of the WIC Congress mandated that the Food and Nutrition Service of the U S Department of Agriculture USDA reevaluate the program s food packages every 10 years In 2014 the USDA asked the Institute of Medicine to undertake this reevaluation to ensure continued alignment with the goals of the Dietary Guidelines for Americans In this third report the committee provides its final analyses recommendations and the supporting rationale

Gender and Climate Change Joane Nagel, 2015-09-25 Does gender matter in global climate change This timely and provocative book takes readers on a guided tour of basic climate science then holds up a gender lens to find out what has been overlooked in popular discussion research and policy debates We see that around the world more women than men die in climate related natural disasters the history of science and war are intimately interwoven masculine

occupations and preoccupations and conservative men and their interests drive the climate change denial machine We also see that climate policymakers who embrace big science approaches and solutions to climate change are predominantly male with an ideology of perpetual economic growth and an agenda that marginalizes the interests of women and developing economies The book uses vivid case studies to highlight the sometimes surprising differential gendered impacts of climate changes

Modeling and Simulation Support for System of Systems Engineering Applications Larry B. Rainey, Andreas Tolk, 2015-01-05 a much needed handbook with contributions from well chosen practitioners A primary accomplishment is to provide guidance for those involved in modeling and simulation in support of Systems of Systems development more particularly guidance that draws on well conceived academic research to define concepts and terms that identifies primary challenges for developers and that suggests fruitful approaches grounded in theory and successful examples Paul Davis The RAND Corporation Modeling and Simulation Support for System of Systems Engineering Applications provides a comprehensive overview of the underlying theory methods and solutions in modeling and simulation support for system of systems engineering Highlighting plentiful multidisciplinary applications of modeling and simulation the book uniquely addresses the criteria and challenges found within the field Beginning with a foundation of concepts terms and categories a theoretical and generalized approach to system of systems engineering is introduced and real world applications via case studies and examples are presented A unified approach is maintained in an effort to understand the complexity of a single system as well as the context among other proximate systems In addition the book features Cutting edge coverage of modeling and simulation within the field of system of systems including transportation system health management space mission analysis systems engineering methodology and energy State of the art advances within multiple domains to instantiate theoretic insights applicable methods and lessons learned from real world applications of modeling and simulation The challenges of system of systems engineering using a systematic and holistic approach Key concepts terms and activities to provide a comprehensive unified and concise representation of the field A collection of chapters written by over 40 recognized international experts from academia government and industry A research agenda derived from the contribution of experts that guides scholars and researchers towards open questions Modeling and Simulation Support for System of Systems Engineering Applications is an ideal reference and resource for academics and practitioners in operations research engineering statistics mathematics modeling and simulation and computer science The book is also an excellent course book for graduate and PhD level courses in modeling and simulation engineering and computer science

Laboratory Biorisk Management Reynolds M. Salerno, Jennifer Gaudioso, 2015-12-01 Over the past two decades bioscience facilities worldwide have experienced multiple safety and security incidents including many notable incidents at so called sophisticated facilities in North America and Western Europe This demonstrates that a system based solely on biosafety levels and security regulations may not be sufficient Setting the stage for a substantively different approach for

managing the risks of working with biological agents in laboratories Laboratory Biorisk Management Biosafety and Biosecurity introduces the concept of biorisk management a new paradigm that encompasses both laboratory biosafety and biosecurity The book also provides laboratory managers and directors with the information and technical tools needed for its implementation The basis for this new paradigm is a three pronged multi disciplinary model of assessment mitigation and performance the AMP model The application of the methodologies criteria and guidance outlined in the book helps to reduce the risk of laboratories becoming the sources of infectious disease outbreaks This is a valuable resource for those seeking to embrace and implement biorisk management systems in their facilities and operations including the biological research clinical diagnostic and production manufacturing communities *United States Department of State Treaties in Force; A List of Treaties and Other International Agreements of the United States in Force on January 1, 2018* , Potential Risks and Benefits of Gain-of-Function Research National Research Council, Institute of Medicine, Board on Health Sciences Policy, Policy and Global Affairs, Committee on Science, Technology, and Law, Division on Earth and Life Studies, Board on Life Sciences, 2015-04-13 On October 17 2014 spurred by incidents at U S government laboratories that raised serious biosafety concerns the United States government launched a one year deliberative process to address the continuing controversy surrounding so called gain of function GOF research on respiratory pathogens with pandemic potential The gain of function controversy began in late 2011 with the question of whether to publish the results of two experiments involving H5N1 avian influenza and continued to focus on certain research with highly pathogenic avian influenza over the next three years The heart of the U S process is an evaluation of the potential risks and benefits of certain types of GOF experiments with influenza SARS and MERS viruses that would inform the development and adoption of a new U S Government policy governing the funding and conduct of GOF research Potential Risks and Benefits of Gain of Function Research is the summary of a two day public symposia on GOF research Convened in December 2014 by the Institute of Medicine and the National Research Council the main focus of this event was to discuss principles important for and key considerations in the design of risk and benefit assessments of GOF research Participants examined the underlying scientific and technical questions that are the source of current discussion and debate over GOF research involving pathogens with pandemic potential This report is a record of the presentations and discussion of the meeting *The Central Intelligence Agency and Overhead Reconnaissance* Gregory Pedlow, Donald Welzenbach, 2016-03-15 The CIA s 2013 release of its book The Central Intelligence Agency and Overhead Reconnaissance 1954 1974 is a fascinating and important historical document It contains a significant amount of newly declassified material with respect to the U 2 and Oxcart programs including names of pilots codenames and cryptonyms locations funding and cover arrangements electronic countermeasures equipment cooperation with foreign governments and overflights of the Soviet Union Cuba China and other countries Originally published with a Secret No Foreign Dissemination classification this detailed study describes not only the program s technological and

bureaucratic aspects but also its political and international context including the difficult choices faced by President Eisenhower in authorizing overflights of the Soviet Union and the controversy surrounding the shoot down there of U 2 pilot Francis Gary Powers in 1960 The authors discuss the origins of the U 2 its top secret testing its specially designed high altitude cameras and complex life support systems and even the possible use of poison capsules by its pilots if captured They call attention to the crucial importance of the U 2 in the gathering of strategic and tactical intelligence as well as the controversies that the program unleashed Finally they discuss the CIA s development of a successor to the U 2 the Oxcart which became the world s most technologically advanced aircraft For the first time the more complete 2013 release of this historical text is available in a professionally typeset format supplemented with higher quality photographs that will bring alive these incredible aircraft and the story of their development and use by the CIA This edition also includes a new preface by author Gregory W Pedlow and a foreword by Chris Pocock Skyhorse Publishing as well as our Arcade imprint are proud to publish a broad range of books for readers interested in history books about World War II the Third Reich Hitler and his henchmen the JFK assassination conspiracies the American Civil War the American Revolution gladiators Vikings ancient Rome medieval times the old West and much more While not every title we publish becomes a New York Times bestseller or a national bestseller we are committed to books on subjects that are sometimes overlooked and to authors whose work might not otherwise find a home

Sustainable Green Chemistry Mark Anthony Benvenuto, 2017-04-10 Sustainable Green Chemistry the 1st volume of Green Chemical Processing covers several key aspects of modern green processing The scope of this volume goes beyond bio and organic chemistry highlighting the ecological and economic benefits of enhanced sustainability in such diverse fields as petrochemistry metal production and wastewater treatment The authors discuss recent progresses and challenges in the implementation of green chemical processes as well as their transfer from academia to industry and teaching at all levels Selected successes in the greening of established processes and reactions are presented including the use of switchable polarity solvents actinide recovery using ionic liquids and the removal of the ubiquitous bisphenol A molecule from effluent streams by phytodegradation

Treaties in Force , 2016 **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

Maritime Technology and Engineering III Carlos Guedes Soares,T.A. Santos,2016-12-01 Maritime Technology and Engineering 3 is a collection of papers presented at the 3rd International Conference on Maritime Technology and Engineering MARTECH 2016 Lisbon Portugal 4 6 July 2016 The MARTECH Conferences series evolved from biannual national conferences in Portugal thus reflecting the internationalization of the maritime sector The keynote lectures and the papers making up nearly 150 contributions came from an international group of authors focused on different subjects in a variety of fields Maritime Transportation Energy Efficiency Ships in Ports Ship Hydrodynamics Ship Structures Ship Design Ship Machinery Shipyard Technologyafety Reliability Fisheries Oil Gas Marine Environment Renewable Energy and Coastal Structures Maritime Technology and Engineering 3 will appeal to academics engineers and professionals interested or involved in these fields

Fostering Integrity in Research National Academies of Sciences, Engineering, and Medicine,Policy and Global Affairs,Committee on Science, Engineering, Medicine, and Public Policy,Committee on Responsible Science,2018-01-13 The integrity of knowledge that emerges from research is based on individual and collective adherence to core values of objectivity honesty openness fairness accountability and stewardship Integrity in science means that the organizations in which research is conducted encourage those involved to exemplify these values in every step of the research process Understanding the dynamics that support or distort practices that uphold the integrity of research by all participants ensures that the research enterprise advances knowledge The 1992 report Responsible Science Ensuring the Integrity of the Research Process evaluated issues related to scientific responsibility and the conduct of research It provided a valuable service in describing and analyzing a very complicated set of issues and has served as a crucial basis for thinking about research integrity for more than two decades However as experience has accumulated with various forms of research misconduct detrimental research practices and other forms of misconduct as subsequent empirical research has revealed more about the nature of scientific misconduct and because technological and social changes have altered the environment in which science is conducted it is clear that the framework established more than two decades ago needs to be updated Responsible Science served as a valuable benchmark to set the context for this most recent analysis and to help guide the committee s thought process Fostering Integrity in Research identifies best practices in research and recommends practical options for discouraging and addressing research misconduct and detrimental research practices

Problem Structuring Mike Yearworth,2024-09-06 Current perspectives on approaches to problem structuring in operational research and engineering and prospects for problem structuring methods applicable to a wide range of practice Bridging between

operational research OR and engineering practice Problem Structuring Methodology in Practice is grounded in the emergence of soft OR and its development over time as a distinctively new field broadening the scope of OR to deal with issues of transforming strategising and planning in the context of wicked problems The book is centred on a methodological framing of intervention processes known as problem structuring methods PSMs and the techniques presented are suitable for practitioners across a broad range of disciplines Written by a highly qualified professor of engineering and management Problem Structuring Methodology in Practice contains four linked sections that cover I Problem formulation when dealing with wicked problems justification for a methodological approach the emergence of soft OR the relevance of pragmatic philosophy to OR practice II Traces debates and issues in OR leading to the emergence of soft OR comparative analysis of PSMs leading to a generic framework for soft OR practice addressing practical considerations in delivering PSM interventions III Charts the emergence of a problem structuring sensibility in engineering practice introduces a new PSM based on hierarchical process modelling HPM supported by teaching and case studies makes the case for a processual turn in engineering practice supported by HPM with relevance to OR practice IV Evaluation of PSM interventions survey of applications use of group support systems new developments supported by machine learning recontextualising soft OR practice Problem Structuring Methodology in Practice is a thought provoking and highly valuable resource relevant to all students of problems It is suitable for any UK Level 7 or equivalent programme in OR engineering or applied social science where a reflective methodological approach to dealing with wicked problems is an essential requirement for practice **An**

Introduction to Design Science Paul Johannesson,Erik Perjons,2021-09-20 This book is an introductory text on design science intended to support both graduate students and researchers in structuring undertaking and presenting design science work It builds on established design science methods as well as recent work on presenting design science studies and ethical principles for design science and also offers novel instruments for visualizing the results both in the form of process diagrams and through a canvas format While the book does not presume any prior knowledge of design science it provides readers with a thorough understanding of the subject and enables them to delve into much deeper detail thanks to extensive sections on further reading Design science in information systems and technology aims to create novel artifacts in the form of models methods and systems that support people in developing using and maintaining IT solutions This work focuses on design science as applied to information systems and technology but it also includes examples from and perspectives of other fields of human practice Chapter 1 provides an overview of design science and outlines its ties with empirical research Chapter 2 discusses the various types and forms of knowledge that can be used and produced by design science research while Chapter 3 presents a brief overview of common empirical research strategies and methods Chapter 4 introduces a methodological framework for supporting researchers in doing design science research as well as in presenting their results This framework includes five core activities which are described in detail in Chapters 5 to 9 Chapter 10

discusses how to communicate design science results while Chapter 11 compares the proposed methodological framework with methods for systems development and shows how they can be combined Chapter 12 discusses how design science relates to research paradigms in particular to positivism and interpretivism and Chapter 13 discusses ethical issues and principles for design science research The new Chapter 14 showcases a study on digital health consultations and illustrates the whole process in one comprehensive example Also added to this 2nd edition are a number of sections on practical guidelines for carrying out basic design science tasks a discussion on design thinking and its relationship to design science and the description of artefact classifications Eventually both the references in each chapter and the companion web site were updated to reflect recent findings

The RRI Challenge Blagovesta Nikolova, 2019-04-22 This book explores the prospects of innovation governance within the context of the growing uneasiness surrounding the effects democratic deficits and overall societal adequacy of techno scientific progress There is a focus on the recently promoted notion of Responsible Research and Innovation RRI and some light is shed on the inevitable impediments of its meaningful implementation with respect to the normative structure of contemporary market societies A particular matter of concern is the normative interlock between science and the market around the notion of neutrality and the narrowing room for ethics reflexivity The RRI Challenge outlines avenues for further conceptualization so that RRI can fulfil its emancipatory potential as social critique This involves challenging the current politico economic framework of the knowledge creation process and re examining key conceptual dyads in innovation governance such as governance government hard law soft law risk fault uncertainty indeterminacy and morality ethics

Cyber Threat Chris Bronk, 2016-02-01 This book presents a holistic view of the geopolitics of cyberspace that have arisen over the past decade utilizing recent events to explain the international security dimension of cyber threat and vulnerability and to document the challenges of controlling information resources and protecting computer systems How are the evolving cases of cyber attack and breach as well as the actions of government and corporations shaping how cyberspace is governed What object lessons are there in security cases such as those involving Wikileaks and the Snowden affair An essential read for practitioners scholars and students of international affairs and security this book examines the widely pervasive and enormously effective nature of cyber threats today explaining why cyber attacks happen how they matter and how they may be managed The book addresses a chronology of events starting in 2005 to comprehensively explain the international security dimension of cyber threat and vulnerability It begins with an explanation of contemporary information technology including the economics of contemporary cloud mobile and control systems software as well as how computing and networking principally the Internet are interwoven in the concept of cyberspace Author Chris Bronk PhD then documents the national struggles with controlling information resources and protecting computer systems The book considers major security cases such as Wikileaks Stuxnet the cyber attack on Estonia Shamoon and the recent exploits of the Syrian Electronic Army Readers will understand how cyber security in the 21st

century is far more than a military or defense issue but is a critical matter of international law diplomacy commerce and civil society as well

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

Technological Innovation in Legacy Sectors William B. Bonvillian, Charles Weiss, 2015-08-18 The American economy faces two deep problems expanding innovation and raising the rate of quality job creation Both have roots in a neglected problem the resistance of Legacy economic sectors to innovation While the U S has focused its policies on breakthrough innovations to create new economic frontiers like information technology and biotechnology most of its economy is locked into Legacy sectors defended by technological economic political social paradigms that block competition from disruptive innovations that could challenge their models Americans like to build technology covered wagons and take them out west to open new innovation frontiers we don't head our wagons back east to bring innovation to our Legacy sectors By failing to do

so the economy misses a major opportunity for innovation which is the bedrock of U S competitiveness and its standard of living Technological Innovation in Legacy Sectors uses a new unifying conceptual framework to identify the shared features underlying structural obstacles to innovation in major Legacy sectors energy air and auto transport the electric power grid buildings manufacturing agriculture health care delivery and higher education and develops approaches to understand and transform them It finds both strengths and obstacles to innovation in the national innovation environments a new concept that combines the innovation system and the broader innovation context for a group of Asian and European economies Manufacturing is a major Legacy sector that presents a particular challenge because it is a critical stage in the innovation process By increasingly offshoring production the U S is losing important parts of its innovation capacity Innovate here produce here where the U S took all the gains of its strong innovation system at every stage is being replaced by innovate here produce there which threatens to lead to produce there innovate there To bring innovation to Legacy sectors authors William Bonvillian and Charles Weiss recommend that policymakers focus on all stages of innovation from research through implementation They should fill institutional gaps in the innovation system and take measures to address structural obstacles to needed disruptive innovations In the specific case of advanced manufacturing the production ecosystem can be recreated to reverse jobless innovation and add manufacturing led innovation to the U S s still strong research oriented innovation system

Beyond the Code Heidi Furey, Scott Hill, Sujata K. Bhatia, 2021-07-27 For over 80 years the National Society of Professional Engineers NSPE has been a leader in the promotion of ethical practice within the field of engineering One of the Society s greatest contributions is the formation and adoption of the NSPE Code of Ethics But the code with its six Fundamental Canons is only truly instructive if engineers can bridge the gap between principles and action Here there is no substitute for personal reflection on the ethical and philosophical issues that underlie the code If done well such reflection provides an indispensable basis for moral problem solving Beyond the Code A Philosophical Guide to Engineering Ethics is designed to complement the NSPE Code of Ethics by helping readers go beyond in their understanding of the philosophical issues bound up in the code Each chapter addresses one of the Fundamental Canons of the NSPE code and provides a philosophical analysis of the various parts of each canon by employing contemporary and classical texts This unique approach to engineering ethics guides students and professionals in their readings of the appended selections to refine their understanding of the code in order to apply it to the practical challenges of today s engineers Key Features Is the first introduction to engineering ethics that helps students understand and apply the NSPE Code of Ethics to engineering practice Includes a Preface from Arthur E Schwartz NSPE Deputy Executive Director and General Counsel and NAFE Executive Director As a hybrid text includes primary philosophical texts with extensive introductions and guided reading questions from the book s three authors Offers case studies from the NSPE Board of Ethical Review allowing students to see a direct connection between the issues discussed in the text and real world engineering practice Includes the following pedagogical

aids Key Terms and Concepts for each chapter Preparing to Read sections before each primary source reading Guided Reading Questions after each primary source reading Going Beyond Our Questions for a Deep Dive after each case study

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