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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

**Milan Majerník, Naqib Daneshjo, Martin
Bosák**



Engineering Science Memo April 2014:

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 Trba High Tatras Mountains Slovak Republic The proceedings contain articles focusing on Production Management Logistics Industrial development sustainable production Planning management and pr *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

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

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 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 , **Aligning the Governance Structure of the NNSA Laboratories to Meet 21st Century National Security Challenges** National Research Council, Division on Engineering and Physical Sciences, Laboratory Assessments Board, Committee on Assessment of the Governance Structure of the NNSA National Security Laboratories, 2015-03-13

Aligning the Governance Structure of the NNSA Laboratories to Meet 21st Century National Security Challenges is an independent assessment regarding the transition of the National Nuclear Security Administration NNSA laboratories Los Alamos National Laboratory Lawrence Livermore National Laboratory and Sandia National Laboratories to multiagency federally funded research and development centers with direct sustainment and sponsorship by multiple national security agencies This report makes recommendations for the governance of NNSA laboratories to better align with the evolving national security landscape and the laboratories increasing engagement with the other national security agencies while

simultaneously encouraging the best technical solutions to national problems from the entire range of national security establishments According to this report the Department of Energy should remain the sole sponsor of the NNSA laboratories as federally funded research and development centers The NNSA laboratories will remain a critically important resource to meet U S national security needs for many decades to come The recommendations of Aligning the Governance Structure of the NNSA Laboratories to Meet 21st Century National Security Challenges will improve the governance of the laboratories and strengthen their strategic relationship with the non DOE national security agencies NASA Technical Memorandum

,1976 **Chinese Investment in U.S. Aviation** Chad J. R. Ohlandt,Lyle J. Morris,Julia A. Thompson,2017-04-10 This report assesses Chinese investment in U S aviation from 2005 to 2016 It provides context in China s demand for aviation products and aviation industrial policies while assessing technology transfers and impact on U S competitiveness Chinese investment in U S aviation over the past decade has primarily involved lower technology general aviation manufacturers that do not affect U S competitiveness *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 Technology Safety Reliability Fisheries Oil Gas Marine Environment Renewable Energy and Coastal Structures This book will appeal to academics engineers and professionals interested or involved in these fields

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

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

Risk Communication and Miscommunication Carolyn Boiarsky, 2016-09-01 Effective communication can help prevent or minimize damage from environmental disasters In *Risk Communication and Miscommunication* Carolyn Boiarsky teaches students technical writers public affairs officers engineers scientists and governmental officials the writing and

communication skills necessary for dealing with environmental and technological problems that could lead to major crises Drawing from research in rhetoric linguistics technical communication educational psychology and web design Boiarsky provides a new way to look at risk communication She shows how failing to consider the readers needs or the rhetorical context in which one writes can be catastrophic and how anticipating those needs can enhance effectiveness and prevent disaster She examines the communications and miscommunications of original e mails memos and presentations about various environmental disasters including the Columbia space shuttle explosion and the BP Deepwater Horizon oil rig explosion and successes such as the Enbridge pipeline expansion and the opening of the Mississippi Spillway and offers recommendations for effective communication Taking into account the growing need to communicate complex and often controversial issues across vast geographic and cultural spaces with an ever expanding array of electronic media Risk Communication and Miscommunication provides strategies for clear communication of data ideas and procedures to varied audiences to prevent or minimize damage from environmental incidents

Regenerative Medicine Technology Sean V. Murphy,Anthony Atala,2016-11-30 Miniaturization in the fields of chemistry and molecular biology has resulted in the lab on a chip Such systems are micro fabricated devices capable of handling extremely small fluid volumes facilitating the scaling of single or multiple lab processes down to a microchip sized format The convergence of lab on a chip technology with the field of cell biology facilitated the development of organ on a chip systems Such systems simulate the function of tissues and organs having the potential to bypass some cell and animal testing methods These technologies have generated high interest as applications for disease modeling and drug discovery This book edited by Drs Sean Murphy and Anthony Atala provides a comprehensive coverage of the technologies that have been used to develop organ on a chip systems Known leaders cover the basics to the most relevant and novel topics in the field including micro fabrication 3D bio printing 3D cell culture techniques biosensor design and microelectronics micro fluidics data collection and predictive analysis The book describes specific tissue types amenable for disease modeling and drug discovery applications Lung liver heart skin and kidney on a chip technologies are included as well as a progress report on designing an entire body on a chip system Additionally the book covers applications of various systems for modeling tissue specific cancers metastasis and tumor microenvironments and provides an overview of current and potential applications of these systems to disease modeling toxicity testing and individualized medicine

Open Science by Design National Academies of Sciences, Engineering, and Medicine,Policy and Global Affairs,Board on Research Data and Information,Committee on Toward an Open Science Enterprise,2018-09-09 Openness and sharing of information are fundamental to the progress of science and to the effective functioning of the research enterprise The advent of scientific journals in the 17th century helped power the Scientific Revolution by allowing researchers to communicate across time and space using the technologies of that era to generate reliable knowledge more quickly and efficiently Harnessing today s stunning ongoing advances in information technologies the global research

enterprise and its stakeholders are moving toward a new open science ecosystem Open science aims to ensure the free availability and usability of scholarly publications the data that result from scholarly research and the methodologies including code or algorithms that were used to generate those data Open Science by Design is aimed at overcoming barriers and moving toward open science as the default approach across the research enterprise This report explores specific examples of open science and discusses a range of challenges focusing on stakeholder perspectives It is meant to provide guidance to the research enterprise and its stakeholders as they build strategies for achieving open science and take the next steps

U.S. Emergency Management in the 21st Century Claire B. Rubin, Susan L. Cutter, 2019-12-06 U S Emergency Management in the 21st Century From Disaster to Catastrophe explores a critical issue in American public policy Are the current public sector emergency management systems sufficient to handle future disasters given the environmental and social changes underway In this timely book Claire B Rubin and Susan L Cutter focus on disaster recovery efforts community resilience and public policy issues of related to recent disasters and what they portend for the future Beginning with the external societal forces influencing shifts in policy and practice the next six chapters provide in depth accounts of recent disasters the Joplin Tuscaloosa Birmingham and Moore tornadoes Hurricanes Sandy Harvey Irma Maria and the California wildfires The book concludes with a chapter on loss accounting and a summary chapter on what has gone right what has gone wrong and why the federal government may no longer be a reliable partner in emergency management Accessible and clearly written by authorities in a wide range of related fields with local experiences this book offers a rich array of case studies and describes their significance in shifting emergency management policy and practice in the United States during the past decade Through a careful blending of contextual analysis and practical information this book is essential reading for students an interested public and professionals alike

Building America's Skilled Technical Workforce National Academies of Sciences, Engineering, and Medicine, National Academy of Engineering, Division of Behavioral and Social Sciences and Education, Policy and Global Affairs, Board on Science Education, Board on Higher Education and Workforce, Board on Science, Technology, and Economic Policy, Committee on the Supply Chain for Middle-Skill Jobs: Education, Training, and Certification Pathways, 2017-05-04 Skilled technical occupations defined as occupations that require a high level of knowledge in a technical domain but do not require a bachelor s degree for entry are a key component of the U S economy In response to globalization and advances in science and technology American firms are demanding workers with greater proficiency in literacy and numeracy as well as strong interpersonal technical and problem solving skills However employer surveys and industry and government reports have raised concerns that the nation may not have an adequate supply of skilled technical workers to achieve its competitiveness and economic growth objectives In response to the broader need for policy information and advice Building America s Skilled Technical Workforce examines the coverage effectiveness flexibility and coordination of the policies and various programs that prepare Americans for skilled technical jobs This report provides

action oriented recommendations for improving the American system of technical education training and certification

Nigeria's Resource Wars Egodi Uchendu, 2021-03-02 Nigeria's Resource Wars reflects on the diversity of conflicts over access to and allocation of resources in Nigeria. From the devastating effects of crude oil exploration in the Niger Delta to desertification caused by climate change and illegal gold mining in Zamfara to mention a few, Nigeria faces new dimensions of resource-related struggles. The ravaging effects of these resource conflicts between crop farmers and Fulani herders in Nigeria's Middlebelt and states across Southern Nigeria call for urgent scholarly interventions with the Fulani cattle breeders onslaught altering the histories of many Nigerian families through deaths, loss of homes and investments and permanent physical incapacity. Currently, there is an almost total breakdown of interethnic relations with political commentators acknowledging that Nigeria has never been so divided as it presently is in its history. The struggles have now degenerated into kidnaps, armed robbery and incessant targeted and random killings across the country, compounding the already complex problem of insecurity in Nigeria. The chapters in this volume engage with these issues, presenting the different arguments on resource conflicts in Nigeria. They draw insights from similar conflicts in Nigeria's colonial post-independence past and events from around the world to proffer possible solutions to resource-related confrontations in Africa. By offering a collection of different intellectual perspectives on resource conflicts in Nigeria, this volume will be an important reference material for understanding the diversity of thought patterns that underpin the struggle and policy approaches towards resolving conflict situations in Africa. This volume will be of considerable interest to scholars of Africa, researchers in the humanities, social sciences and conflict studies, and policymakers interested in understanding the resource crisis in Africa.

Handbook of Systems Engineering and Risk Management in Control Systems, Communication, Space Technology, Missile, Security and Defense Operations Anna M. Doro-on, 2022-09-27 This book provides multifaceted components and full practical perspectives of systems engineering and risk management in security and defense operations with a focus on infrastructure and manpower control systems, missile design, space technology, satellites, intercontinental ballistic missiles and space security. While there are many existing selections of systems engineering and risk management textbooks, there is no existing work that connects systems engineering and risk management concepts to solidify its usability in the entire security and defense actions. With this book, Dr. Anna M. Doro-on rectifies the current imbalance. She provides a comprehensive overview of systems engineering and risk management before moving to deeper practical engineering principles integrated with newly developed concepts and examples based on industry and government methodologies. The chapters also cover related points including design principles for defeating and deactivating improvised explosive devices and land mines and security measures against kinds of threats. The book is designed for systems engineers in practice, political risk professionals, managers, policy makers, engineers in other engineering fields, scientists, decision makers in industry and government, and to serve as a reference work in systems engineering and risk management courses with focus on security and defense.

operations 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 Critical Infrastructure Protection in Homeland Security Ted G. Lewis, 2019-11-26 Covers critical infrastructure protection providing a rigorous treatment of risk resilience complex adaptive systems and sector dependence Wide in scope this classroom tested book is the only one to emphasize a scientific approach to protecting the key infrastructures components of a nation It analyzes the complex network of entities that make up a nation's infrastructure and identifies vulnerabilities and risks in various sectors by combining network science complexity theory risk analysis and modeling and simulation This approach reduces the complex problem of protecting water supplies energy pipelines telecommunication stations power grid and Internet and Web networks to a much simpler problem of protecting a few critical nodes The new third edition of Critical Infrastructure Protection in Homeland Security Defending a Networked Nation incorporates a broader selection of ideas and sectors than the previous book Divided into three sections

the first part looks at the historical origins of homeland security and critical infrastructure and emphasizes current policy The second examines theory and foundations highlighting risk and resilience in the context of complexity theory network science and the prevailing theories of catastrophe The last part covers the individual sectors including communications internet cyber threats information technology social networks SCADA water and water treatment energy and more Covers theories of catastrophes details of how sectors work and how to deal with the problem of critical infrastructure protection s enormity and complexity Places great emphasis on computer security and whole community response Includes PowerPoint slides for use by lecturers as well as an instructor s guide with answers to exercises Offers five robust appendices that augment the non mathematical chapters with more rigorous explanations and mathematics Critical Infrastructure Protection in Homeland Security Third Edition is an important book for upper division undergraduates and first year graduate students in political science history public administration and computer technology It will also be of great interest to professional security experts and policymakers

The Enigmatic Realm of **Engineering Science Memo Aprial 2014**: Unleashing the Language is Inner Magic

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