

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

INSTRUCTIONS AND INFORMATION

1. Answer ALL the questions.
 2. All calculations should consist of at least THREE steps:
 - 2.1 The formula used in manipulation.
 - 2.2 Substitution of the given data in the formula.
 - 2.3 The answer with the correct SI unit.
 3. The constant values, as they appear in the attachment information sheet, must be used whenever possible.
 4. Number the answers according to the numbering system used in this question paper.
 5. Keep sub-sections of questions together.
 6. Rule off on completion of each question.
 7. Drawing instruments must be used for all drawings/diagrams. All drawings/diagrams must be fully labelled.
 8. Use $g = 9,8 \text{ ms}^{-2}$.
 9. Answers must be rounded off to THREE decimal places.
 10. Write neatly and legibly.
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Engineering Science Napril Memorandum 2013

**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**

Engineering Science Napril Memorandum 2013:

Jacksonville Harbor Project in Duval County, Florida (April 2014) United States. Office of the Assistant Secretary of the Army (Civil Works),2015 **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 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 *Principles and Practices for a Federal Statistical Agency* National Academies of Sciences, Engineering, and Medicine,Division of Behavioral and Social Sciences and Education,Committee on National

Statistics,2017-08-27 Publicly available statistics from government agencies that are credible relevant accurate and timely are essential for policy makers individuals households businesses academic institutions and other organizations to make informed decisions Even more the effective operation of a democratic system of government depends on the unhindered flow of statistical information to its citizens In the United States federal statistical agencies in cabinet departments and independent agencies are the governmental units whose principal function is to compile analyze and disseminate information for such statistical purposes as describing population characteristics and trends planning and monitoring programs and conducting research and evaluation The work of these agencies is coordinated by the U S Office of Management and Budget Statistical agencies may acquire information not only from surveys or censuses of people and organizations but also from such sources as government administrative records private sector datasets and Internet sources that are judged of suitable quality and relevance for statistical use They may conduct analyses but they do not advocate policies or take partisan positions Statistical purposes for which they provide information relate to descriptions of groups and exclude any interest in or identification of an individual person institution or economic unit Four principles are fundamental for a federal statistical agency relevance to policy issues credibility among data users trust among data providers and independence from political and other undue external influence Principles and Practices for a Federal Statistical Agency Sixth Edition presents and comments on these principles as they ve been impacted by changes in laws regulations and other aspects of the environment of federal statistical agencies over the past 4 years

China's Bilateral Relations with Its Principal Oil Suppliers

George G. Eberling,2017-10-23 This book examines China s bilateral relations with its established suppliers of crude petroleum and on occasion petroleum gas products including liquefied natural gas LNG based on a five dimensional framework political diplomatic relations economic trade relations military security relations cultural relations and petroleum energy relations A five dimensional approach is comprehensive in nature and offers a complete understanding of China s complex relationships rather than looking solely on more typical perspectives like bilateral trade security relationships or energy ties More often than not social science literature focuses on one or more aspects of China s bilateral relations which does not provide a complete picture of the complex nature of its interstate ties This book endeavors to bridge this gap and look more substantially at China s bilateral relationships with energy petroleum relations being the key aspect linking each one of them The specific bilateral relationships examined are China s relations with Angola Brazil Republic of the Congo Iran Iraq Kazakhstan Kuwait Oman Russia Saudi Arabia South Sudan Sudan United Arab Emirates and Venezuela These countries matter because their crude petroleum and petroleum gas product exports account for over 50 percent of China s annual oil consumption

Strategies in Biomedical Data Science Jay A. Etchings,2017-01-03 An essential guide to healthcare data problems sources and solutions Strategies in Biomedical Data Science provides medical professionals with much needed guidance toward managing the increasing deluge of healthcare data Beginning with a look at our current top down

methodologies this book demonstrates the ways in which both technological development and more effective use of current resources can better serve both patient and payer The discussion explores the aggregation of disparate data sources current analytics and toolsets the growing necessity of smart bioinformatics and more as data science and biomedical science grow increasingly intertwined You ll dig into the unknown challenges that come along with every advance and explore the ways in which healthcare data management and technology will inform medicine politics and research in the not so distant future Real world use cases and clear examples are featured throughout and coverage of data sources problems and potential mitigations provides necessary insight for forward looking healthcare professionals Big Data has been a topic of discussion for some time with much attention focused on problems and management issues surrounding truly staggering amounts of data This book offers a lifeline through the tsunami of healthcare data to help the medical community turn their data management problem into a solution Consider the data challenges personalized medicine entails Explore the available advanced analytic resources and tools Learn how bioinformatics as a service is quickly becoming reality Examine the future of IOT and the deluge of personal device data The sheer amount of healthcare data being generated will only increase as both biomedical research and clinical practice trend toward individualized patient specific care Strategies in Biomedical Data Science provides expert insight into the kind of robust data management that is becoming increasingly critical as healthcare evolves

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

Iran's Rocket and

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

Operational Safety Economics Genserik L. L. Reniers, H. R. Noel Van Erp, 2016-08-03 Describes how to make economic decisions regarding safety in the chemical and process industries. Covers both technical risk assessment and economic aspects of safety decision making. Suitable for both academic researchers and practitioners in industry. Addresses cost benefit analysis for safety investments.

The United States Government Manual 2013 Office of the Federal Register (U.S.), Office of the Federal Register (U.S.) Staff, 2013-10-19 NOTE: NO FURTHER DISCOUNTS ON THIS ITEM OVERSTOCK SALE. Significantly reduced list price while supplies last. The US Government Manual is known as the Official handbook of the Federal Government. This annual resource provides comprehensive information on the agencies of the legislative, judicial, and executive branches as well as quasi-official agencies, international organizations in which the United States participates, boards, commissions, and committees. Each agency's description consists of a list of principal officials, a summary statement of the agency's purpose and role in the Federal Government, a brief history of the agency including its legislative or executive authority, and a description of its programs and activities. A typical agency description includes a list of principal officials, a summary statement of the agency's purpose and role in the Federal Government, a brief history of the agency including its legislative or executive authority, a description of its programs and activities, and a Sources of Information section. This last section provides information on consumer activities, contracts, and grants, employment, publications, and many other areas of public interest. This annual reference book is an invaluable resource for anyone interested in the organization and function of the United States Federal Government agencies and quasi-agency organizations that may receive Federal appropriated funds for some of their operations. Other related resources: United States Government Policy and Supporting Positions 2012 Plum Book. Print/Paperback format can be found here: <https://bookstore.gpo.gov/products/sku/052-070-07648-8>

The Design of Aircraft Landing Gear Robert Kyle Schmidt, 2021-02-18 The aircraft landing gear and its associated systems represent a compelling design challenge. Simultaneously, a system, a structure, and a machine, it supports the aircraft on the ground, absorbs landing and braking energy, permits maneuvering, and retracts to minimize aircraft drag. Yet as it is not required during flight, it also represents dead weight, and significant effort must be made to minimize its total mass. *The Design of Aircraft Landing Gear* written by R. Kyle

Schmidt PE B A Sc Mechanical Engineering M Sc Safety and Aircraft Accident Investigation Chairman of the SAE A 5 Committee on Aircraft Landing Gear is designed to guide the reader through the key principles of landing system design and to provide additional references when available Many problems which must be confronted have already been addressed by others in the past but the information is not known or shared leading to the observation that there are few new problems but many new people The Design of Aircraft Landing Gear is intended to share much of the existing information and provide avenues for further exploration The design of an aircraft and its associated systems including the landing system involves iterative loops as the impact of each modification to a system or component is evaluated against the whole It is rare to find that the lightest possible landing gear represents the best solution for the aircraft the lightest landing gear may require attachment structures which don t exist and which would require significant weight and compromise on the part of the airframe structure design With those requirements and compromises in mind The Design of Aircraft Landing Gear starts with the study of airfield compatibility aircraft stability on the ground the correct choice of tires followed by discussion of brakes wheels and brake control systems Various landing gear architectures are investigated together with the details of shock absorber designs Retraction kinematics and mechanisms are studied as well as possible actuation approaches Detailed information on the various hydraulic and electric services commonly found on aircraft and system elements such as dressings lighting and steering are also reviewed Detail design points the process of analysis and a review of the relevant requirements and regulations round out the book content The Design of Aircraft Landing Gear is a landmark work in the industry and a must read for any engineer interested in updating specific skills and students preparing for an exciting career

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

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

This Changes Everything Naomi Klein, 2014-09-16 With strong first hand reporting and an original provocative thesis Naomi Klein returns with this book on how the climate crisis must spur transformational political change

World Scientific Handbook Of Experimental Results On High Speed Penetration Into Metals, Concrete And Soils Gabi Ben-dor, Anatoly Dubinsky, Tov Elperin, 2016-08-18 This unique compendium contains a vast systematized data of 14 000 experiments on high velocity penetration into metals concrete reinforced concrete and geological media which were published in the open literature journal papers reports conference proceedings during the last 70 years Data presented in

this edition are related to the initial and final stages of penetration and include parameters which characterize mechanical and geometric properties of the striker and the shield striking and residual velocities of projectile or depth of penetration changes of mass and size of projectile angles that determine the initial and residual position of the projectile ballistic limit velocity basic characteristics of plug and deformation of the shield Unified form of data representation and common notations are used throughout the book All information is presented in numerical form in SI units The book also contains indices which allow a fast search of the authors publications and related experiments Theoreticians design engineers and experimentalists will find this handbook a valuable reference material *Research for the Developing World* Bruce Currie-Alder, 2015

Research for the developing world can create evidence on the effectiveness of foreign aid invent new technologies to help poor people and strengthen research in poor countries How do countries determine which policy goals to pursue This book answers this question based on the history of research funders in Australia Canada and the UK *Yearbook of International Organizations 2013-2014 (Volumes 1a-1b)* Union Of International Associations, Union of International

Associations, 2013-06-21 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events *America COMPETES Reauthorization Act of 2015* United States. Congress. House. Committee on Science and Technology (2007-2011), 2015 The Information Manifold Antonio Badia, 2019-11-05 An argument that

information exists at different levels of analysis syntactic semantic and pragmatic and an exploration of the implications Although this is the Information Age there is no universal agreement about what information really is Different disciplines view information differently engineers computer scientists economists linguists and philosophers all take varying and apparently disconnected approaches In this book Antonio Badia distinguishes four levels of analysis brought to bear on information syntactic semantic pragmatic and network based Badia explains each of these theoretical approaches in turn discussing among other topics theories of Claude Shannon and Andrey Kolmogorov Fred Dretske's description of information flow and ideas on receiver impact and informational interactions Badia argues that all these theories describe the same phenomena from different perspectives each one narrower than the previous one The syntactic approach is the more general one but it fails to specify when information is meaningful to an agent which is the focus of the semantic and pragmatic approaches The network based approach meanwhile provides a framework to understand information use among agents Badia then explores the consequences of understanding information as existing at several levels Humans live at the semantic and pragmatic level and at the network level as a society computers at the syntactic level This sheds light on some recent issues including fake news computers cannot tell whether a statement is true or not because truth is a semantic notion and algorithmic bias a pragmatic not syntactic concern Humans not computers the book argues have the ability to solve these issues Treaties in Force , 2016

Enjoying the Beat of Phrase: An Mental Symphony within **Engineering Science Napril Memorandum 2013**

In a global eaten by displays and the ceaseless chatter of fast transmission, the melodic splendor and mental symphony created by the prepared word frequently disappear in to the background, eclipsed by the constant noise and disturbances that permeate our lives. However, nestled within the pages of **Engineering Science Napril Memorandum 2013** a charming fictional prize overflowing with organic feelings, lies an immersive symphony waiting to be embraced. Constructed by a masterful composer of language, that interesting masterpiece conducts visitors on a psychological trip, skillfully unraveling the hidden melodies and profound impact resonating within each cautiously crafted phrase. Within the depths with this moving assessment, we can investigate the book is main harmonies, analyze its enthralling writing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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