

DEPARTMENT OF HIGHER EDUCATION AND TRAINING
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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 the calculation
 - 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 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 Napril Memorandum 2013

Paul Holden



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 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 **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,2018-08-09 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 *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 *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.

Microbotics Fouad Sabry, 2025-03-24 *Microbotics* is a groundbreaking work in the *Microswimmer* series offering a deep dive into the world of micro and nanoscale robotics. Whether you're a professional student or an enthusiast, this book is an essential resource to understand the cutting-edge advancements shaping the future of robotics. It will expand your knowledge in this rapidly evolving field from bioinspired designs to targeted drug delivery systems. With detailed chapter breakdowns and insightful analysis, this book offers more value than its price tag.

Chapters:

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microswimmers 19 Peristaltic robot Study the function and design of peristaltic robots and their potential in medical applications 20 Robotic sperm Discover the revolutionary use of robotic sperm in the advancement of fertility treatments and research 21 Biohybrid microswimmer Understand the fusion of biological systems with robotic technology to create efficient biohybrid microswimmers The insights provided throughout this book will prepare you for the next generation of micro and nanoscale technologies As professionals and students dive into its pages they will not only gain critical knowledge but also be equipped with the understanding to shape the future of robotics

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

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 *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

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

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

The Secure and the Dispossessed Nick Buxton, Ben Hayes, 2015-11-20 While the world's scientists and many of its inhabitants despair at the impact of climate change corporate and military leaders see nothing but opportunities For them melting ice caps mean newly accessible fossil fuels borders to be secured from climate refugees social conflicts to be managed and more failed states in which to intervene They are securing their assets at the expense of the planet and its inhabitants The Secure and the Dispossessed looks at these deadly approaches with a critical eye It also considers the flip side that the legitimacy of the elite is under unprecedented pressure from resistance by communities to resource grabs to those creating new ecological and socially just models for managing our energy food and water Topics covered include geoengineering militarism refugee protection greenwashing and the agricultural crisis among others Adaptation and resilience to a climate changed world is desperately needed but the form it will take will affect all of our futures

Indefensible Paul Holden, 2016-09-15 Although there is often opposition to individual wars most people continue to believe that the arms industry is necessary in some form to safeguard our security provide jobs and stimulate the economy Not only conservatives but many progressives and liberals support it for these reasons Indefensible puts forward a devastating challenge to this conventional wisdom which has normalised the existence of the most savage weapons of mass destruction ever known It is the essential handbook for those who want to debunk the arguments of the industry and its supporters deploying case studies statistics and irrefutable evidence to demonstrate they are fundamentally flawed both factually and logically Far from protecting us the book shows how the arms trade undermines our security by fanning the flames of war terrorism and global instability In countering these myths the book points to ways in which we can combat the arms trade's malignant influence reclaim our democracies and reshape our economies

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

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

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

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

Treaties in Force, 2016 **Treaties in Force** United States Department of State - Office of the Legal Adviser, 2014-04-08 **Treaties in Force** is prepared by the Department of State for the purpose of providing information on treaties and other international agreements to which the United States has become a party and which are carried on the records of the Department of State as being in force as of its stated publication date January 1 2013 With respect to treaties and agreements in force as of January 1 2013 information regarding status is up to date as of the date indicated as authoritative The term treaty as a matter of U S constitutional law denotes international agreements made by the President with the advice and consent of the Senate in accordance with Article II section 2 of the Constitution of the United States In addition to such treaties this publication covers international agreements in force that have been concluded by the Executive a pursuant to or in accordance with existing legislation or a prior treaty b subject to congressional approval or implementation and or c under and in accordance with the President s constitutional powers **Treaties in Force** is arranged in two sections Section 1 includes bilateral treaties and other international agreements listed by country or other international entity with subject headings under each entry Arrangements with territorial possessions of a country appear at the end of the entry for that country In some cases treaties and international agreements applicable to a territory prior to its independence are included in the entry for that country on the basis of its assumption of treaty obligations upon becoming independent as noted at the beginning of the entry for that country For convenience some treaties and agreements concluded with countries whose name or statehood status has changed continue to be listed under the name in use at the time the agreement was concluded if the title of the treaty or agreement has not been formally amended Section 2 lists multilateral treaties and other international agreements

to which the United States is a party arranged by subject The depositary is the authoritative source for a current list of parties and information on other matters concerning the status of the agreement and status information often changes Information is provided on the depositary for the agreement in question and contact information including an Internet site is provided for the depositary where available

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