

# higher education & training

Department: Higher Education and Training REPUBLIC OF SOUTH AFRICA

#### MARKING GUIDELINE

## NATIONAL CERTIFICATE ENGINEERING DRAWING N2

11 APRIL 2019

This marking guideline consists of 12 pages.



### **April2012 Engineering Science Memorundum**

National Research Council, Division on Engineering and Physical Sciences, National Materials and Manufacturing Board, Committee on Triennial Review of the National Nanotechnology Initiative: Phase II

#### **April2012 Engineering Science Memorundum:**

The Report: Ghana 2012, 2012 Triennial Review of the National Nanotechnology Initiative National Research Council, Division on Engineering and Physical Sciences, National Materials and Manufacturing Board, Committee on Triennial Review of the National Nanotechnology Initiative: Phase II,2014-01-20 The National Nanotechnology Initiative NNI is a multiagency multidisciplinary federal initiative comprising a collection of research programs and other activities funded by the participating agencies and linked by the vision of a future in which the ability to understand and control matter at the nanoscale leads to a revolution in technology and industry that benefits society As first stated in the 2004 NNI strategic plan the participating agencies intend to make progress in realizing that vision by working toward four goals Planning coordination and management of the NNI are carried out by the interagency Nanoscale Science Engineering and Technology NSET Subcommittee of the National Science and Technology Council NSTC Committee on Technology CoT with support from the National Nanotechnology Coordination Office NNCO Triennial Review of the National Nanotechnology Initiative is the latest National Research Council review of the NNI an assessment called for by the 21st Century Nanotechnology Research and Development Act of 2003 The overall objective of the review is to make recommendations to the NSET Subcommittee and the NNCO that will improve the NNI s value for basic and applied research and for development of applications in nanotechnology that will provide economic societal and national security benefits to the United States In its assessment the committee found it important to understand in some detail and to describe in its report the NNI s structure and organization how the NNI fits within the larger federal research enterprise as well as how it can and should be organized for management purposes and the initiative s various stakeholders and their roles with respect to research Because technology transfer one of the four NNI goals is dependent on management and coordination the committee chose to address the topic of technology transfer last following its discussion of definitions of success and metrics for assessing progress toward achieving the four goals and management and coordination Addressing its tasks in this order would the committee hoped better reflect the logic of its approach to review of the NNI Triennial Review of the National Nanotechnology Initiative also provides concluding Engineering and Science of Biomass Feedstock Production and Provision Yogendra remarks in the last chapter Shastri, Alan Hansen, Luis Rodríguez, K.C. Ting, 2014-02-10 The biomass based energy sector especially the one based on lignocellulosic sources such as switchgrass Miscanthus forest residues and short rotation coppice will play an important role in our drive towards renewable energy The biomass feedstock production BFP subsystem provides the necessary material inputs to the conversion processes for energy production This subsystem includes the agronomic production of energy crops and the physical handling and delivery of biomass as well as other enabling logistics Achieving a sustainable BFP system is therefore paramount for the success of the emerging bioenergy sector However low bulk and energy densities seasonal and weather sensitive availability distributed supply and lack of commercial scale production experience create unique

challenges Moreover novel region specific feedstock alternatives continue to emerge Engineering will play a critical role in addressing these challenges and ensuring the techno economic feasibility of this sector It must also integrate with the biological physical and chemical sciences and incorporate externalities such as social economic considerations environmental impact and policy regulatory issues to achieve a truly sustainable system Tremendous progress has been made in the past few years while new challenges have simultaneously emerged that need further investigation It is therefore prudent at this time to review the current status and capture the future challenges through a comprehensive book This work will serve as an authoritative treatise on the topic that can help researchers educators and students interested in the field of biomass feedstock production with particular interest in the engineering aspects *The Biologist's Imagination* William R. Hoffman, Leo Furcht, 2014 Discusses the history of technological innovation in the biosciences *Development of Linquistic* Linked Open Data Resources for Collaborative Data-Intensive Research in the Language Sciences Antonio Pareja-Lora, Maria Blume, Barbara C. Lust, Christian Chiarcos, 2020-01-07 Making diverse data in linguistics and the language sciences open distributed and accessible perspectives from language language acquistiion researchers and technical LOD linked open data researchers This volume examines the challenges inherent in making diverse data in linguistics and the language sciences open distributed integrated and accessible thus fostering wide data sharing and collaboration It is unique in integrating the perspectives of language researchers and technical LOD linked open data researchers Reporting on both active research needs in the field of language acquisition and technical advances in the development of data interoperability the book demonstrates the advantages of an international infrastructure for scholarship in the field of language sciences With contributions by researchers who produce complex data content and scholars involved in both the technology and the conceptual foundations of LLOD linguistics linked open data the book focuses on the area of language acquisition because it involves complex and diverse data sets cross linguistic analyses and urgent collaborative research The contributors discuss a variety of research methods resources and infrastructures Contributors Isabelle Barri re Nan Bernstein Ratner Steven Bird Maria Blume Ted Caldwell Christian Chiarcos Cristina Dye Suzanne Flynn Claire Foley Nancy Ide Carissa Kang D Terence Langendoen Barbara Lust Brian MacWhinney Jonathan Masci Steven Moran Antonio Pareja Lora Jim Reidy Oya Y Rieger Gary F Simons Thorsten Trippel Kara Warburton Sue Ellen Wright Claus Zinn Global Health Risk Framework National Academies of Sciences, Engineering, and Medicine, Institute of Medicine, Board on Global Health, Forum on Microbial Threats, 2016-06-11 Since the 2014 Ebola outbreak many public and private sector leaders have seen a need for improved management of global public health emergencies The effects of the Ebola epidemic go well beyond the three hardest hit countries and beyond the health sector Education child protection commerce transportation and human rights have all suffered The consequences and lethality of Ebola have increased interest in coordinated global response to infectious threats many of which could disrupt global health and commerce far more than the recent outbreak In order to explore the potential

for improving international management and response to outbreaks the National Academy of Medicine agreed to manage an international independent evidence based authoritative multistakeholder expert commission As part of this effort the Institute of Medicine convened four workshops in summer of 2015 to inform the commission report The presentations and discussions from the Governance for Global Health Workshop are summarized in this report **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 Building capability in the Senior Civil Service to meet today's challenges Great Britain: National Audit operations Office, 2013-06-19 The Government now accepts the urgent need for a leadership group that can think across departmental boundaries and lead change but there is still a long way to go to change the long standing culture of the Senior Civil Service The NAO watchdog welcomed the ambition of the Civil Service Reform Plan and emphasised the urgent need to make progress given that the plan underpinned the Government's chances of achieving further efficiency savings At present there are significant skills shortages particularly in the areas of commerce project management digital delivery and change leadership In December 2012 only four out of 15 Permanent Secretaries at major delivery departments had significant operational delivery and commercial experience The 24 professional networks in the civil service lack influence across departmental silos and may not be the right groupings to meet the needs of the modern service The Government intends to open up the service with more internal transfers and free flow of skills to and from the private sector and build on an approach already in place for the top 200 But the proportion of new recruits from the private sector fell in 2009 10 as departments cut spending and has yet to recover Promotion to the Senior Civil Service is becoming so financially unattractive as to put off talented people The NAO warns that the latest moves to increase pay flexibility and offer incentives for business

critical roles may not be enough to recruit motivate and retain the right people 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

Terrorism ,1979 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 expanse 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 The Rocket Lab Michael G. Smith, 2023-05-15 The Rocket Lab Maurice Zucrow Purdue University and America s Race to Space focuses on the golden era of space exploration between 1946 and 1966 specifically the life and times of Purdue University s Dr Maurice J Zucrow a pioneering teacher and researcher in aerospace engineering Zucrow taught America's first university course in jet and rocket propulsion wrote the field's first textbook and established the country's first educational Rocket Lab He was part of a small circle of innovators who transformed Purdue into the country's largest engineering university which became a cradle of astronauts Taking a chronological and thematic approach The Rocket Lab weaves between the local and national drawing in rival universities especially Harvard MIT Princeton and Caltech Also covered is Zucrow's role in the national project system of research and development through World War II and the Cold War At Aerojet he was one of the country's original project engineers dedicated to scientific technical expertise and the stepwise approach He made vanquard power plant contributions to the Northrop Flying Wing as well as the Corporal Nike and Atlas missiles among others Zucrow s work in propulsion helped to improve the country's arsenal of ballistic missiles and space launchers and as a teacher he educated the first generation of aerospace engineers. This book elevates Zucrow and the central role he played in getting the United States to space **Beyond Reason** JP Bernbach, 2016-09-01 Conservatives currently inhabit viewpoints in which waves of criminals are making their way over the Mexican border tax cuts for the rich benefit the middle class and climate change isn t happening Author J P Bernbach dismantles each of these arguments and more presenting a comprehensive and rigorously researched refutation of the right wing Frankenstein's Cat Emily Anthes, 2025-09-23 Winner of 2014 AAAS Subaru SB F Prize for Best Young Adult Science Book Longlisted for the PEN E O Wilson Literary Science Writing Award One of Nature's Summer Book Picks One of Publishers Weekly's Top Ten Spring 2013 Science Books For centuries we ve toyed with our creature companions breeding dogs that herd and hunt housecats that look like tigers and teacup pigs that fit snugly in our handbags But what happens when we take animal alteration a step further engineering a cat that glows green under ultraviolet light or cloning the beloved family Labrador Science has given us a whole new toolbox for tinkering with life How are we using it In Frankenstein's Cat the journalist Emily Anthes takes us from petri dish to pet store as she explores how biotechnology is shaping the future of our furry and feathered friends As she ventures from bucolic barnyards to a frozen zoo where scientists are storing DNA from the planet s most exotic creatures she discovers how we can use cloning to protect endangered species craft prosthetics to save injured animals and employ genetic engineering to supply farms with disease resistant livestock Along the way we meet some of the animals that are ushering in this astonishing age of enhancement including sensor wearing seals cyborg beetles a bionic bulldog and the world's first cloned cat Through her encounters with scientists conservationists ethicists and entrepreneurs Anthes reveals that while some of our interventions may be trivial behold the GloFish others could improve the lives of many species including our own

So what does biotechnology really mean for the world's wild things And what do our brave new beasts tell us about ourselves With keen insight and her trademark spunk Anthes highlights both the peril and the promise of our scientific superpowers taking us on an adventure into a world where our grandest science fiction fantasies are fast becoming reality The Engineer ,2016 TERRORISM: COMMENTARY ON SECURITY **States Government Manual** ,2013 **DOCUMENTS VOLUME 144** Douglas Lovelace Jr., 2016-09-08 Terrorism Commentary on Security Documents is a series that provides primary source documents and expert commentary on various topics relating to the worldwide effort to combat terrorism as well as efforts by the United States and other nations to protect their national security interests Volume 144 Autonomous and Semiautonomous Weapons Systems examines the impact of robots and autonomous and semiautonomous weapons systems on the waging of modern warfare It considers the likely effects of emerging technological innovations in this area from both a political and strategic standpoint in addition to considering the implications of such technologies within the context of the law of armed conflict and international humanitarian law This volume is divided into three sections 1 U S policy and approaches to the use of autonomous and semiautonomous weapons systems 2 U S armed forces use of such weapons systems and 3 potential terrorist use of such weapons systems Official policy documents from the DoD and the U S Army and Air Force are complemented by reports from the Strategic Studies Institute Army War College Press and other U S Pathways to Reform Alexandra W. Loque, 2017-09-08 A personal account of the implementation of a military sources controversial credit transfer program at the nation s third largest university Change is notoriously difficult in any large organization Institutions of higher education are no exception From 2010 to 2013 Alexandra Loque then chief academic officer of The City University of New York led a controversial reform initiative known as Pathways The program aimed to facilitate the transfer of credits among the university s nineteen constituent colleges in order to improve graduation rates a long recognized problem for public universities such as CUNY Hotly debated Pathways met with vociferous resistance from many faculty members drew the attention of local and national media and resulted in lengthy legal action In Pathways to Reform Logue the figure at the center of the maelstrom blends vivid personal narrative with an objective perspective to tell how this hard fought plan was successfully implemented at the third largest university in the United States Loque vividly illustrates why change does or does not take place in higher education and the professional and personal tolls exacted Looking through the lens of the Pathways program and factoring in key players she analyzes how governance structures and conflicting interests along with other institutional factors impede change which Logue shows is all too rare slow and costly In this environment she argues it is shared governance combined with a strong central decision making authority that best facilitates necessary reform Logue presents a compelling investigation of not only transfer policy but also power dynamics and university leadership Shedding light on the inner workings of one of the most important public institutions in the nation Pathways to Reform provides the first full account of how despite opposition a complex higher education initiative was

realized All net royalties received by the author from sales of this book will be donated to The City University of New York to support undergraduate student financial aid MRGO Ecosystem Restoration Plan Feasibility Study United States. Office of the Assistant Secretary of the Army (Civil Works), 2013 Genetic Resources as Natural Information Manuel Ruiz Muller, 2015-09-16 Demonstrating the shortcomings of current policy and legal approaches to access and benefit sharing ABS in the Convention on Biological Diversity CBD this book recognizes that genetic resources are widely distributed across countries and that bilateral contracts undermine fairness and equity The book offers a practical and feasible regulatory alternative to ensure the goal of fairness and equity is effectively and efficiently met Through a legal analysis that also incorporates historic economic and sociological perspectives the book argues that genetic resources are not tangible resources but information It shows that the existing preference for bilateralism and contracts reflects resistance on the part of many of the stakeholders involved in the CBD process to recognize them as such ABS issues respond very well to the economics of information yet as the author explains these have been either sidelined or overlooked At a time when the Nagoya Protocol on ABS has renewed interest in feasible policy options the author provides a constructive and provocative critique The institutional policy and regulatory framework constitute bounded openness under which fairness and equity emerge

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