

MEMORANDUM

PROGRAMME	NATIONAL DIPLOMA IN CHEMICAL, MECHANICAL AND ELECTRICAL ENGINEERING
SUBJECT NAME	POWER MACHINES N5
SUBJECT CODE	8190035
ASSESSMENT	DEFERRED NATIONAL TEST MEMORANDUM
TRIMESTER	TRIMESTER 2
FT/PT	FULL TIME AND PART TIME
DATE WRITTEN	17 JUNE 2021
SESSION	09H00 – 10H30

NUMBER OF PAGES	6
TOTAL MARKS	50
DURATION	1.5 HOURS
PASS MARK	40%
WEIGHTING	30% TOWARDS TERM MARK

REQUIREMENTS:

Addendum:

Learner Requirements: Stationery and Answer Book

Equipment Requirements: None

This paper consists of:

1.	QUESTION 1	6 MARKS	11 Minutes
2.	QUESTION 2	15 MARKS	27 Minutes
3.	QUESTION 3	15 MARKS	27 Minutes
4.	QUESTION 4	14 MARKS	25 Minutes

Please answer **ALL** questions.

INSTRUCTIONS AND INFORMATION TO CANDIDATES:

1. Read all questions carefully before answering.
2. Number the answers according to the numbering system used in this question paper.
3. Answer questions in full sentences where required to do so.
4. **Calculations:** Show **ALL** steps when answering.
5. Rule off after each question.
6. Write neatly and legibly.

PLEASE READ THE ASSESSMENT RULES AND REGULATIONS THAT FOLLOW

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Memo For Power Machine 15 November 2012

Terry C. Jones



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White Space Communication Technologies Nuno Borges Carvalho, Alessandro Cidronali, Roberto Gómez-García, 2014-10-09 The first book to describe RF hardware design for white space applications including both analog and digital approaches

Treaties in Force 2012, 2013-03 Lists treaties and other international agreements of the United States on record in the Department of State on January 1 2012 which had not expired by their terms or which had not been denounced by the parties replaced or superseded by other agreements or otherwise definitely terminated Published annually

MIMO Power Line Communications Lars Torsten Berger, Andreas Schwager, Pascal Pagani, Daniel Schneider, 2017-12-19 One of the first publications of its kind in the exciting field of multiple input multiple output MIMO power line communications PLC MIMO Power Line Communications Narrow and Broadband Standards EMC and Advanced Processing contains contributions from experts in industry and academia making it practical enough to provide a solid understanding of how PLC technologies work yet scientific enough to form a base for ongoing R D activities This book is subdivided into five thematic parts Part I looks at narrow and broadband channel characterization based on measurements from around the globe Taking into account current regulations and electromagnetic compatibility EMC part II describes MIMO signal processing strategies and related capacity and throughput estimates Current narrow and broadband PLC standards and specifications are described in the various chapters of part III Advanced PLC processing options are treated in part IV drawing from a wide variety of research areas such as beamforming precoding time reversal multi user processing and relaying Lastly part V contains case studies and field trials where the advanced technologies of tomorrow are put into practice today Suitable as a reference or a handbook MIMO Power Line Communications Narrow and Broadband Standards EMC and Advanced Processing features self contained chapters with extensive cross referencing to allow for a flexible reading path

Federal Register, 2013 *Professional Journal of the United States Army*, 2013 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 **U.S.-Mexico Security**

Cooperation United States. Congress. House. Committee on Foreign Affairs. Subcommittee on the Western

Hemisphere,2013 **Trading with the Enemy** Hugo Meijer,2016-03-01 In light of the intertwining logics of military competition and economic interdependence at play in US China relations Trading with the Enemy examines how the United States has balanced its potentially conflicting national security and economic interests in its relationship with the People s Republic of China PRC To do so Hugo Meijer investigates a strategically sensitive yet under explored facet of US China relations the making of American export control policy on military related technology transfers to China since 1979 Trading with the Enemy is the first monograph on this dimension of the US China relationship in the post Cold War Based on 199 interviews declassified documents and diplomatic cables leaked by Wikileaks two major findings emerge from this book First the US is no longer able to apply a strategy of military technology containment of China in the same way it did with the Soviet Union during the Cold War This is because of the erosion of its capacity to restrict the transfer of military related technology to the PRC Secondly a growing number of actors in Washington have reassessed the nexus between national security and economic interests at stake in the US China relationship by moving beyond the Cold War trade off between the two in order to maintain American military preeminence vis vis its strategic rivals By focusing on how states manage the heterogeneous and potentially competing security and economic interests at stake in a bilateral relationship this book seeks to shed light on the evolving character of interstate rivalry in a globalized economy where rivals in the military realm are also economically interdependent **Transmission, Distribution, and Renewable Energy Generation Power Equipment**

Bella H. Chudnovsky,2017-03-07 The revised edition presents extends and updates a thorough analysis of the factors that cause and accelerate the aging of conductive and insulating materials of which transmission and distribution electrical apparatus is made New sections in the second edition summarize the issues of the aging reliability and safety of electrical apparatus as well as supporting equipment in the field of generating renewable energy solar wind tide and wave power When exposed to atmospheric corrosive gases and fluids contaminants high and low temperatures vibrations and other internal and external impacts these systems deteriorate eventually the ability of the apparatus to function properly is destroyed In the modern world of green energy the equipment providing clean electrical energy needs to be properly maintained in order to prevent premature failure The book s purpose is to help find the proper ways to slow down the aging of electrical apparatus improve its performance and extend the life of power generation transmission and distribution equipment **Military Review** ,2013 **Internet Daemons** Fenwick McKelvey,2018-10-30 A complete history and theory of internet daemons brings these little known but very consequential programs into the spotlight We re used to talking about how tech giants like

Google Facebook and Amazon rule the internet but what about daemons Ubiquitous programs that have colonized the Net's infrastructure as well as the devices we use to access it daemons are little known Fenwick McKelvey weaves together history theory and policy to give a full account of where daemons come from and how they influence our lives including their role in hot button issues like network neutrality Going back to Victorian times and the popular thought experiment Maxwell's Demon McKelvey charts how daemons evolved from concept to reality eventually blossoming into the pandemonium of code based creatures that today orchestrates our internet Digging into real life examples like sluggish connection speeds Comcast's efforts to control peer to peer networking and Pirate Bay's attempts to elude daemon control and skirt copyright McKelvey shows how daemons have been central to the internet greatly influencing everyday users Internet Daemons asks important questions about how much control is being handed over to these automated autonomous programs and the consequences for transparency and oversight

Tiger Check Steven A. Fino, 2017-11-01 How did American fighter pilots respond to the challenges posed by increasing automation Spurred by their commanders during the Korean War to be tigers aggressive and tenacious American fighter pilots charged headlong into packs of fireball spewing enemy MiGs relying on their keen eyesight piloting finesse and steady trigger fingers to achieve victory But by the 1980s American fighter pilots vanquished their foes by focusing on a four inch square cockpit display manipulating electromagnetic waves and launching rocket propelled guided missiles from miles away In this new era of automated long range air combat can fighter pilots still be considered tigers Aimed at scholars of technology and airpower aficionados alike Steven A Fino's Tiger Check offers a detailed study of air to air combat focusing on three of the US Air Force's most famed aircraft the F 86E Sabre the F 4C Phantom II and the F 15A Eagle Fino argues that increasing fire control automation altered what fighter pilots actually did during air to air combat Drawing on an array of sources as well as his own decade of experience as an F 15C fighter pilot Fino unpacks not just the technological black box of fighter fire control equipment but also fighter pilots attitudes toward their profession and their evolving aircraft He describes how pilots grappled with the new technologies acutely aware that the very systems that promised to simplify their jobs while increasing their lethality in the air also threatened to rob them of the quintessential albeit mythic fighter pilot experience Finally Fino explains that these new systems often required new unique skills that took time for the pilots to identify and then develop Eschewing the typical great machine or great pilot perspectives that dominate aviation historiography Tiger Check provides a richer perspective on humans and machines working and evolving together in the air The book illuminates the complex interactions between human and machine that accompany advancing automation in the workplace

Foreign Aid in the Middle East Beáta Paragi, 2019-02-28 What do we mean by gifts in International Relations Can foreign aid be conceptualized as a gift Most foreign aid transactions are unilateral and financially unreciprocated yet donors expect to benefit from them Previous research dealing with foreign aid has analyzed the main donor motives and interests in providing financial support This book offers an in depth analysis of the

invisible political or social exchange taking place between recipient countries and donors when a grant agreement is signed Focusing on Egypt Jordan Palestine and Israel the main beneficiaries of Western foreign aid the book uses gift theories and theories of social exchange to show how international social bonds are shaped by foreign aid and in what ways recipient countries are obliged to return the gift they receive Foreign aid is a means of buying stability or democracy in the region but Beata Paragi is interested here to understand the actual feasibility of Western assistance Looking at the context of the Arab Spring the book examines how aid impacts on a recipient country's domestic political events such as war the quest for self determination the struggle against occupation and the fight for dignity An original contribution to Middle East Studies and International Relations the research presents an alternative interpretation of foreign aid and show how external funds interact with local developments and realities

Solid State Lighting Reliability Part 2 Willem Dirk van Driel,Xuejun Fan,Guo Qi Zhang,2017-07-11 In the past four years we have witnessed rapid development in technology and significant market penetration in many applications for LED systems New processes and new materials have been introduced new standards and new testing methods have been developed new driver control and sensing technologies have been integrated and new and unknown failure modes have also been presented In this book Solid State Lighting Reliability Part 2 we invited the experts from industry and academia to present the latest developments and findings in the LED system reliability arena Topics in this book cover the early failures and critical steps in LED manufacturing advances in reliability testing and standards quality of colour and colour stability degradation of optical materials and the associated chromaticity maintenance characterization of thermal interfaces LED solder joint testing and prediction common failure modes in LED drivers root causes for lumen depreciation corrosion sensitivity of LED packages reliability management for automotive LEDs and lightning effects on LEDs This book is a continuation of Solid State Lighting Reliability Components to Systems published in 2013 which covers reliability aspects ranging from the LED to the total luminaire or system of luminaires Together these two books are a full set of reference books for Solid State Lighting reliability from the performance of the sub components to the total system regardless its complexity

Battle for the Big Sky David C.W. Parker,2014-10-10 Battle for the Big Sky delves into one of the few competitive races of the 2012 election the US Senate campaign in Montana Author David C W Parker was granted exceptional access by both candidates over the 21 months preceding the election allowing him to tell the story of the race in rare and fascinating detail while also exploring the impact of Citizens United and so called dark money on the campaign The Montana setting offers readers a view into the rising political influence of the West the importance of place in politics and the impact of congressional styles and constituent relationships on campaigns and elections Parker skillfully weaves political analysis into his narrative and places the race in the broader context of congressional elections and the research literature

Silicon Based Unified Memory Devices and Technology Arup Bhattacharyya,2017-07-06 The primary focus of this book is on basic device concepts memory cell design and process technology integration The first part

provides in depth coverage of conventional nonvolatile memory devices stack structures from device physics historical perspectives and identifies limitations of conventional devices The second part reviews advances made in reducing and or eliminating existing limitations of NVM device parameters from the standpoint of device scalability application extendibility and reliability The final part proposes multiple options of silicon based unified nonvolatile memory cell concepts and stack designs SUMs The book provides Industrial R D personnel with the knowledge to drive the future memory technology with the established silicon FET based establishments of their own It explores application potentials of memory in areas such as robotics avionics health industry space vehicles space sciences bio imaging genetics etc Control Systems Engineering

Norman S. Nise, 2020-06-23 Highly regarded for its accessibility and focus on practical applications Control Systems Engineering offers students a comprehensive introduction to the design and analysis of feedback systems that support modern technology Going beyond theory and abstract mathematics to translate key concepts into physical control systems design this text presents real world case studies challenging chapter questions and detailed explanations with an emphasis on computer aided design Abundant illustrations facilitate comprehension with over 800 photos diagrams graphs and tables designed to help students visualize complex concepts Multiple experiment formats demonstrate essential principles through hypothetical scenarios simulations and interactive virtual models while Cyber Exploration Laboratory Experiments allow students to interface with actual hardware through National Instruments myDAQ for real world systems testing This emphasis on practical applications has made it the most widely adopted text for core courses in mechanical electrical aerospace biomedical and chemical engineering Now in its eighth edition this top selling text continues to offer in depth exploration of up to date engineering practices *Climate Change Baffles Brains* L. Rowand Archer, 2019-09-04 We have now sunk to a depth where the restatement of the obvious is the duty of intelligent men George Orwell s words are worth repeating as climate warming alarmists promote doomsday scenarios that have no basis in science L Rowand Archer examines the lie of global warming and the motivations for it in this treatise that exposes the socialist agenda and fear mongering of the liberal left Lost in the propaganda is the fact that man made CO2 emissions have greened Earth transforming some former desert regions into verdant oases of greenery and contributing to record crop yields Instead of demonizing CO2 we should be praising CO2 for helping to feed the world Because weather is familiar to all it seems that everyone has a theory about what causes climate change and that makes it difficult to argue rationally about the real science behind climate change This book is intended to provide a nontechnical understanding of climate skepticism as argued by over 300 knowledgeable authors in their fields who question the notion that humankind is the major influence of climate change Get real answers to what is really happening in *Climate Change Baffles Brains* **Focus On: 100 Most Popular**

20Th-century American Politicians Wikipedia contributors, **Annual Report of the Commissioner of Patents** United States. Patent Office, 1904

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