[eBooks] Reliability Growth Enhancing Defense System Reliability

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Reliability Growth-Panel on Reliability Growth Methods for Defense Systems 2015-03-01 A high percentage of defense systems fail to meet their reliability requirements. This is a serious problem for the U.S. Department of Defense (DOD), as well as the nation. Those systems are not only less likely to successfully carry out their intended missions, but they also could endanger the lives of the operators. Furthermore, reliability failures discovered after deployment can result in costly and strategic delays and the need for expensive redesign, which often limits the tactical situations in which the system can be used. Finally, systems that fail to meet their reliability requirements are much more likely to need additional scheduled and unscheduled maintenance and to need more spare parts and possibly replacement systems, all of which can substantially increase the life-cycle costs of a system. Beginning in 2008, DOD undertook a concerted effort to raise the priority of reliability through greater use of design for reliability techniques, reliability growth testing, and formal reliability growth modeling, by both the contractors and DOD units. To this end, handbooks, guidances, and formal memoranda were revised or newly issued to reduce the frequency of reliability deficiencies for defense systems in operational testing and the effects of those deficiencies. "Reliability Growth" evaluates these recent changes and, more generally, assesses how current DOD principles and practices could be modified to increase the likelihood that defense systems will satisfy their reliability requirements. This report examines changes to the reliability requirements for proposed systems;

defines modern design and testing for reliability; discusses the contractor's role in reliability testing; and summarizes the current state of formal reliability growth modeling. The recommendations of "Reliability Growth" will improve the reliability of defense systems and protect the health of the valuable personnel who operate them.

Statistics, Testing, and Defense Acquisition-National Research Council 1999-09-17 The Panel on Statistical Methods for Testing and Evaluating Defense Systems had a broad mandate-to examine the use of statistics in conjunction with defense testing. This involved examining methods for software testing, reliability test planning and estimation, validation of modeling and simulation, and use of modem techniques for experimental design. Given the breadth of these areas, including the great variety of applications and special issues that arise, making a contribution in each of these areas required that the Panel's work and recommendations be at a relatively general level. However, a variety of more specific research issues were either brought to the Panel's attention by members of the test and acquisition community, e.g., what was referred to as Dubin's challenge (addressed in the Panel's interim report), or were identified by members of the panel. In many of these cases the panel thought that a more in-depth analysis or a more detailed application of suggestions or recommendations made by the Panel would either be useful as input to its deliberations or could be used to help communicate more individual views of members of the Panel to the defense test community. This resulted in several research

efforts. Given various criteria, especially immediate relevance to the test and acquisition community, the Panel has decided to make available three technical or background papers, each authored by a Panel member jointly with a colleague. These papers are individual contributions and are not a consensus product of the Panel; however, the Panel has drawn from these papers in preparation of its final report: Statistics, Testing, and Defense Acquisition. The Panel has found each of these papers to be extremely useful and they are strongly recommended to readers of the Panel's final report.

Enhancing the Resilience of the Nation's Electricity System-National Academies of Sciences, Engineering, and Medicine 2017-10-25 Americans' safety, productivity, comfort, and convenience depend on the reliable supply of electric power. The electric power system is a complex "cyber-physical" system composed of a network of millions of components spread out across the continent. These components are owned, operated, and regulated by thousands of different entities. Power system operators work hard to assure safe and reliable service, but large outages occasionally happen. Given the nature of the system, there is simply no way that outages can be completely avoided, no matter how much time and money is devoted to such an effort. The system's reliability and resilience can be improved but never made perfect. Thus, system owners, operators, and regulators must prioritize their investments based on potential benefits. Enhancing the Resilience of the Nation's Electricity System focuses on identifying, developing, and implementing strategies to increase the power system's resilience in the face of events that can cause large-area, long-duration outages: blackouts that extend over multiple service areas and last several days or longer. Resilience is not just about lessening the likelihood that these outages will occur. It is also about limiting the scope and impact of outages when they do occur, restoring power rapidly afterwards, and learning from these experiences to better deal with events in the future.

Test & Evaluation Management Guide: August 2016-Department Of Defense 2019-03-06 This PRINT REPLICA contains the 6th edition of the Test & Evaluation Management Guide (TEMG). The Test & Evaluation Management Guide is intended primarily for use in courses at DAU and secondarily as a generic desk reference for program and project management, and Test & Evaluation (T&E) personnel. It is written for current and potential acquisition management personnel and assumes some familiarity with basic terms, definitions, and processes as employed by the DoD acquisition process. The Test & Evaluation Management Guide is designed to assist Government and industry personnel in executing their management responsibilities relative to the T&E support of defense systems and facilitate learning during Defense Acquisition University coursework. The objective of a well-managed T&E program is to provide timely and accurate information to decision makers and program managers (PMs). The Test & Evaluation Management Guide was developed to assist the acquisition community in obtaining a better understanding of who the decision makers are and determining how and when to plan T&E events so that they are efficient and effective. Why buy a book you can download for free? We print this book so you don't have to. First you gotta find a good clean (legible) copy and make sure it's the latest version (not always easy). Some documents found on the web are missing some pages or the image quality is so poor, they are difficult to read. We look over each document carefully and replace poor quality images by going back to the original source document. We proof each document to make sure it's all there - including all changes. If you find a good copy, you could print it using a network printer you share with 100 other people (typically its either out of paper or toner). If it's just a 10-page document, no problem, but if it's 250-pages, you will need to punch 3 holes in all those pages and put it in a 3-ring binder. Takes at least an hour. It's much more cost-effective to just order the latest version from Amazon.com This book includes original commentary which is copyright material. Note that government documents are in the public domain. We print these large documents as a service so you don't have to. The books are compact, tightly-bound, full-size (8 1/2 by 11 inches), with large text and glossy covers. 4th Watch Publishing Co. is a HUBZONE SDVOSB. https: //usgovpub.com

Industrial Methods for the Effective Development and Testing of Defense Systems-National Research Council 2012-02-27 During the past decade and a half, the National Research Council, through its Committee on National Statistics, has carried out a number of studies on the application of statistical methods to improve the testing and development of defense

systems. These studies were intended to provide advice to the Department of Defense (DOD), which sponsored these studies. The previous studies have been concerned with the role of statistical methods in testing and evaluation, reliability practices, software methods, combining information, and evolutionary acquisition. Industrial Methods for the Effective Testing and Development of Defense Systems is the latest in a series of studies, and unlike earlier studies, this report identifies current engineering practices that have proved successful in industrial applications for system development and testing. This report explores how developmental and operational testing, modeling and simulation, and related techniques can improve the development and performance of defense systems, particularly techniques that have been shown to be effective in industrial applications and are likely to be useful in defense system development. In addition to the broad issues, the report identifies three specific topics for its focus: finding failure modes earlier, technology maturity, and use of all relevant information for operational assessments.

Innovations in Software Engineering for Defense Systems-National Research Council 2003-10-22 Recent rough estimates are that the U.S. Department of Defense (DoD) spends at least $38 billion a year on the research, development, testing, and evaluation of new defense systems; approximately 40 percent of that cost-at least $16 billion-is spent on software development and testing. There is widespread understanding within DoD that the effectiveness of software-intensive defense systems is often hampered by low-quality software as well as increased costs and late delivery of software components. Given the costs involved, even relatively incremental improvements to the software development process for defense systems could represent a large savings in funds. And given the importance of producing defense software that will carry out its intended function, relatively small improvements to the quality of defense software systems would be extremely important to identify. DoD software engineers and test and evaluation officials may not be fully aware of a range of available techniques, because of both the recent development of these techniques and their origination from an orientation somewhat removed from software engineering, i.e., from a statistical perspective. The panel's charge therefore was to convene a workshop to identify statistical software engineering techniques that could have applicability to DoD systems in development.

2019 Missile Defense Review-Department Of Defense 2019-01-19 2019 Missile Defense Review - January 2019 According to a senior administration official, a number of new technologies are highlighted in the report. The review looks at "the comprehensive environment the United States faces, and our allies and partners face. It does posture forces to be prepared for capabilities that currently exist and that we anticipate in the future." The report calls for major investments from both new technologies and existing systems. This is a very important and insightful report because many of the cost assessments for these technologies in the past, which concluded they were too expensive, are no longer applicable. Why buy a book you can download for free? We print this book so you don't have to. First you gotta find a good clean (legible) copy and make sure it's the latest version (not always easy). Some documents found on the web are missing some pages or the image quality is so poor, they are difficult to read. We look over each document carefully and replace poor quality images by going back to the original source document. We proof each document to make sure it's all there - including all changes. If you find a good copy, you could print it using a network printer you share with 100 other people (typically its either out of paper or toner). If it's just a 10-page document, no problem, but if it's 250-pages, you will need to punch 3 holes in all those pages and put it in a 3-ring binder. Takes at least an hour. It's much more cost-effective to just order the latest version from Amazon.com This book includes original commentary which is copyright material. Note that government documents are in the public domain. We print these large documents as a service so you don't have to. The books are compact, tightly-bound, full-size (8 1/2 by 11 inches), with large text and glossy covers. 4th Watch Publishing Co. is a HUBZONE SDVOSB. https: //usgovpub.com

Strengthening Forensic Science in the United States-National Research Council 2009-07-29 Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards,

and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

Safety and Reliability – Safe Societies in a Changing World-Stein Haugen 2018-06-15 Safety and Reliability – Safe Societies in a Changing World collects the papers presented at the 28th European Safety and Reliability Conference, ESREL 2018 in Trondheim, Norway, June 17-21, 2018. The contributions cover a wide range of methodologies and application areas for safety and reliability that contribute to safe societies in a changing world. These methodologies and applications include: - foundations of risk and reliability assessment and management - mathematical methods in reliability and safety - risk assessment - risk management - system reliability - uncertainty analysis - digitalization and big data - prognostics and system health management - occupational safety - accident and incident modeling - maintenance modeling and applications - simulation for safety and reliability analysis - dynamic risk and barrier management - organizational factors and safety culture - human factors and human reliability - resilience engineering - structural reliability - natural hazards - security - economic analysis in risk management Safety and Reliability – Safe Societies in a Changing World will be invaluable to academics and professionals working in a wide range of industrial and governmental sectors: offshore oil and gas, nuclear engineering, aeronautics and aerospace, marine transport and engineering, railways,

road transport, automotive engineering, civil engineering, critical infrastructures, electrical and electronic engineering, energy production and distribution, environmental engineering, information technology and telecommunications, insurance and finance, manufacturing, marine transport, mechanical engineering, security and protection, and policy making.

Navy Aegis Ballistic Missile Defense (BMD) Program-Ronald O'Rourke 2011-05 The Aegis BMD program gives Navy Aegis cruisers and destroyers a capability for conducting BMD operations. Under current plans, the number of BMD-capable Navy Aegis ships is scheduled to grow from 20 at the end of FY 2010 to 38 at the end of FY 2015. Contents of this report: (1) Intro.; (2) Background: Planned Quantities of Ships, Ashore Sites, and Interceptor Missiles; Aegis BMD Flight Tests; Allied Participation and Interest in Aegis BMD Program; (3) Issues for Congress: Demands for BMD-Capable Aegis Ships; Demands for Aegis Ships in General; Numbers of SM-3 Interceptors; SM-2 Block IV Capability for 4.0.1 and Higher Versions; (4) Legislative Activity for FY 2011. Charts and tables. This is a print on demand publication.

Seize the High Ground-James A. Walker 2003 "[Seize the high ground is a] narrative history of the Army's aerospace experience from the 1950s to the present. The focus is on ballistic missile defense, from the early NIKE-HERCULES missile program through the SAFEGUARD acquisition site allowed by the 1972 ABM Treaty to the more advanced 'Star Wars' concepts studies toward the end of the century. [What is] covered is not only the technological response to the threat but the organizational and tactical development of the commands and units responsible for the defense mission"--CMH website.

Reliability and Maintainability in Perspective-David J. Smith 1981-12-01

Situational Awareness in Computer Network Defense: Principles, Methods and Applications-Onwubiko, Cyril 2012-01-31 "This book provides academia and organizations insights into practical and applied solutions, frameworks, technologies, and implementations for situational awareness in computer networks"--Provided by publisher.

Making Sense of Ballistic Missile Defense-National Research Council 2012-12-28 The Committee on an Assessment of Concepts and Systems for U.S. Boost-Phase Missile Defense in Comparison to Other Alternatives set forth to provide an assessment of the feasibility, practicality, and affordability of U.S. boost-phase missile defense compared with that of the U.S. non-boost missile defense when countering short-, medium-, and intermediate-range ballistic missile threats from rogue states to deployed forces of the United States and its allies and defending the territory of the United States against limited ballistic missile attack. To provide a context for this analysis of present and proposed U.S. boost-phase and non-boost missile defense concepts and systems, the committee considered the following to be the missions for ballistic missile defense (BMD): protecting of the U.S. homeland against nuclear weapons and other weapons of mass destruction (WMD); or conventional ballistic missile attacks; protection of U.S. forces, including military bases, logistics, command and control facilities, and deployed forces, including military bases, logistics, and command and control facilities. They also considered deployed forces themselves in theaters of operation against ballistic missile attacks armed with WMD or conventional munitions, and protection of U.S. allies, partners, and host nations against ballistic-missile-delivered WMD and conventional weapons. Consistent with U.S. policy and the congressional tasking, the committee conducted its analysis on the basis that it is not a mission of U.S. BMD systems to defend against large-scale deliberate nuclear attacks by Russia or China. Making Sense of Ballistic Missile Defense: An Assessment of Concepts and Systems for U.S. Boost-Phase Missile Defense in Comparison to Other Alternatives suggests that great care should be taken by the U.S. in ensuring that negotiations on space agreements not adversely impact missile defense effectiveness. This report also explains in further detail the findings of the committee, makes recommendations, and sets guidelines for the future of ballistic missile

defense research.

Ten Strategies of a World-Class Cybersecurity Operations Center-Carson Zimmerman 2014-07-01 Ten Strategies of a World-Class Cyber Security Operations Center conveys MITRE's accumulated expertise on enterprise-grade computer network defense. It covers ten key qualities of leading Cyber Security Operations Centers (CSOCs), ranging from their structure and organization, to processes that best enable smooth operations, to approaches that extract maximum value from key CSOC technology investments. This book offers perspective and context for key decision points in structuring a CSOC, such as what capabilities to offer, how to architect large-scale data collection and analysis, and how to prepare the CSOC team for agile, threat-based response. If you manage, work in, or are standing up a CSOC, this book is for you. It is also available on MITRE's website, www.mitre.org.

Molecular Aspects of Plant Beneficial Microbes in Agriculture-Vivek Sharma 2020-03-12 Molecular Aspects of Plant Beneficial Microbes in Agriculture explores their diverse interactions, including the pathogenic and symbiotic relationship which leads to either a decrease or increase in crop productivity. Focusing on these environmentally-friendly approaches, the book explores their potential in changing climatic conditions. It presents the exploration and regulation of beneficial microbes in offering sustainable and alternative solutions to the use of chemicals in agriculture. The beneficial microbes presented here are capable of contributing to nutrient balance, growth regulators, suppressing pathogens, orchestrating immune response and improving crop performance. The book also offers insights into the advancements in DNA technology and bioinformatic approaches which have provided in-depth knowledge about the molecular arsenal involved in mineral uptake, nitrogen fixation, growth promotion and biocontrol attributes.

Advances in Rice Research for Abiotic Stress Tolerance-Mirza Hasanuzzaman 2018-11-12 Advances in Rice Research for Abiotic Stress

Tolerance provides an important guide to recognizing, assessing and addressing the broad range of environmental factors that can inhibit rice yield. As a staple food for nearly half of the world's population, and in light of projected population growth, improving and increasing rice yield is imperative. This book presents current research on abiotic stresses including extreme temperature variance, drought, hypoxia, salinity, heavy metal, nutrient deficiency and toxicity stresses. Going further, it identifies a variety of approaches to alleviate the damaging effects and improving the stress tolerance of rice. Advances in Rice Research for Abiotic Stress Tolerance provides an important reference for those ensuring optimal yields from this globally important food crop. Covers aspects of abiotic stress, from research, history, practical field problems faced by rice, and the possible remedies to the adverse effects of abiotic stresses Provides practical insights into a wide range of management and crop improvement practices Presents a valuable, single-volume sourcebook for rice scientists dealing with agronomy, physiology, molecular biology and biotechnology

Human Development Report 2016-United Nations Development Programme (UNDP) 2017-03-21 This report focuses on how human development can be ensured for everyone, now and in future. It starts with an account of the hopes and challenges of today's world, envisioning where humanity wants to go. This vision draws from and builds on the 2030 Agenda and the Sustainable Development Goals. It explores who has been left behind in human development progress and why. It argues that to ensure that human development reaches everyone, some aspects of the human development framework and assessment perspectives have to be brought to the fore. The Report also identifies the national policies and key strategies to ensure that will enable every human being achieve at least basic human development and to sustain and protect the gains.

Policy Analysis in National Security Affairs-Richard L. Kugler 2006 This book addresses how to conduct policy analysis in the field of national security, including foreign policy and defense strategy. It is a philosophical and conceptual book for helphing people think deeply, clearly, and insightfully about complex policy issues. This books reflects the viewpoint that the best policies normally come from efforts to synthesize competing

camps by drawing upon the best of each of them and by combining them to forge a sensible whole. While this book is written to be reader-friendly, it aspires to in-depth scholarship.

The Future of the Public's Health in the 21st Century-Institute of Medicine 2003-02-01 The anthrax incidents following the 9/11 terrorist attacks put the spotlight on the nation's public health agencies, placing it under an unprecedented scrutiny that added new dimensions to the complex issues considered in this report. The Future of the Public's Health in the 21st Century reaffirms the vision of Healthy People 2010, and outlines a systems approach to assuring the nation's health in practice, research, and policy. This approach focuses on joining the unique resources and perspectives of diverse sectors and entities and challenges these groups to work in a concerted, strategic way to promote and protect the public's health. Focusing on diverse partnerships as the framework for public health, the book discusses: The need for a shift from an individual to a population-based approach in practice, research, policy, and community engagement. The status of the governmental public health infrastructure and what needs to be improved, including its interface with the health care delivery system. The roles nongovernment actors, such as academia, business, local communities and the media can play in creating a healthy nation. Providing an accessible analysis, this book will be important to public health policy-makers and practitioners, business and community leaders, health advocates, educators and journalists.

MITRE Systems Engineering Guide- 2012-06-05

Autonomous Horizons-Greg Zacharias 2019-04-05 Dr. Greg Zacharias, former Chief Scientist of the United States Air Force (2015-18), explores next steps in autonomous systems (AS) development, fielding, and training. Rapid advances in AS development and artificial intelligence (AI) research will change how we think about machines, whether they are individual vehicle platforms or networked enterprises. The payoff will be considerable, affording the US military significant protection for aviators, greater

effectiveness in employment, and unlimited opportunities for novel and disruptive concepts of operations. Autonomous Horizons: The Way Forward identifies issues and makes recommendations for the Air Force to take full advantage of this transformational technology.

Expanding Operating and Support Cost Analysis for Major Programs During the DoD Acquisition Process-Michael Boito 2018-11-30 The Office of Cost Assessment and Program Evaluation is required to perform a broad set of cost analysis duties related to major defense acquisition programs but does not always have the resources to fulfill its duties.

Eyewitness Evidence- 1999-12-01 Written & approved by a multidisciplinary group of content-area experts incl. rep's. of law enforcement, the prosecution, the defense, & forensic science. Eyewitnesses frequently play a vital role in uncovering the truth about a crime. The evidence they provide can be critical in identifying, charging, & convicting suspected criminals. That is why it is absolutely essential that eyewitness evidence be accurate & reliable. Chapters: initial report of the first responder; mug books & composites; interviewing the witnesses by the followup investigator; field identification procedure; & procedures for eyewitness identification of suspects.

Social Budgeting-Wolfgang Scholz 2000 A discussion of the improvement of social protection systems through effective financial planning, management and monitoring. While advocating the implementation and use of methodologically consistent and comprehensive statistical databases, this guide offers a set of established and pragmatic modelling techniques and explains how they can be used to better the governance of social protection systems.; Guidance to develop the required databases for financial planning draws on methodologies developed in the EU but also on analytical experience in many countries around the world. The work stress.

China Military Power- 2019

Battlefield of the Future - 21st Century Warfare Issues-Lawrence Grinter 2012-08-01 This is a book about strategy and war fighting. It contains 11 essays which examine topics such as military operations against a well-armed rogue state, the potential of parallel warfare strategy for different kinds of states, the revolutionary potential of information warfare, the lethal possibilities of biological warfare and the elements of an ongoing revolution in military affairs. The purpose of the book is to focus attention on the operational problems, enemy strategies and threat that will confront U.S. national security decision makers in the twenty-first century.

Indo-Pacific Strategy Report - Preparedness, Partnerships, and Promoting a Networked Region, 2019 DoD Report, China as Revisionist Power, Russia as Revitalized Malign Actor, North Korea as Rogue State-U S Military 2019-06-02 This important report was issued by the Department of Defense in June 2019. The Indo-Pacific is the Department of Defense's priority theater. The United States is a Pacific nation; we are linked to our Indo-Pacific neighbors through unbreakable bonds of shared history, culture, commerce, and values. We have an enduring commitment to uphold a free and open Indo-Pacific in which all nations, large and small, are secure in their sovereignty and able to pursue economic growth consistent with accepted international rules, norms, and principles of fair competition. The continuity of our shared strategic vision is uninterrupted despite an increasingly complex security environment. Inter-state strategic competition, defined by geopolitical rivalry between free and repressive world order visions, is the primary concern for U.S. national security. In particular, the People's Republic of China, under the leadership of the Chinese Communist Party, seeks to reorder the region to its advantage by leveraging military modernization, influence operations, and predatory economics to coerce other nations. In contrast, the Department of Defense supports choices that promote long-term peace and prosperity for all in the Indo-Pacific. We will not accept policies or actions that threaten or undermine the rules-based international order - an order that benefits all nations. We are committed to defending and enhancing these shared values.China's economic, political, and military rise is one of

the defining elements of the 21st century. Today, the Indo-Pacific increasingly is confronted with a more confident and assertive China that is willing to accept friction in the pursuit of a more expansive set of political, economic, and security interests. Perhaps no country has benefited more from the free and open regional and international system than China, which has witnessed the rise of hundreds of millions from poverty to growing prosperity and security. Yet while the Chinese people aspire to free markets, justice, and the rule of law, the People's Republic of China (PRC), under the leadership of the Chinese Communist Party (CCP), undermines the international system from within by exploiting its benefits while simultaneously eroding the values and principles of the rules-based order.This compilation includes a reproduction of the 2019 Worldwide Threat Assessment of the U.S. Intelligence Community. 1. Introduction * 1.1. America's Historic Ties to the Indo-Pacific * 1.2. Vision and Principles for a Free and Open Indo-Pacific * 2. Indo-Pacific Strategic Landscape: Trends and Challenges * 2.1. The People's Republic of China as a Revisionist Power * 2.2. Russia as a Revitalized Malign Actor * 2.3. The Democratic People's Republic of Korea as a Rogue State * 2.4. Prevalence of Transnational Challenges * 3. U.S. National Interests and Defense Strategy * 3.1. U.S. National Interests * 3.2. U.S. National Defense Strategy * 4. Sustaining U.S. Influence to Achieve Regional Objectives * 4.1. Line of Effort 1: Preparedness * 4.2. Line of Effort 2: Partnerships * 4.3. Line of Effort 3: Promoting a Networked Region * Conclusion

Developing Leadership Talent-David Berke 2015-08-10 Based on the popular Developing Leadership Talent program offered by the acclaimed Center for Creative Leadership, this important resource offers a nuts-and-bolts framework for putting in place a leadership development system that will attract and retain the best and brightest talent. Step by step, the authors explain how alignment with strategic goals and organizational purpose and effective developmental experiences are the backbone of a successful leadership program. An authoritative and useful book, Developing Leadership Talent is an essential tool for any leadership program.

Providing the Means of War-Shannon A. Brown 2005

Improving Diagnosis in Health Care-National Academies of Sciences, Engineering, and Medicine 2016-01-29 Getting the right diagnosis is a key aspect of health care - it provides an explanation of a patient's health problem and informs subsequent health care decisions. The diagnostic process is a complex, collaborative activity that involves clinical reasoning and information gathering to determine a patient's health problem. According to Improving Diagnosis in Health Care, diagnostic errors-inaccurate or delayed diagnoses-persist throughout all settings of care and continue to harm an unacceptable number of patients. It is likely that most people will experience at least one diagnostic error in their lifetime, sometimes with devastating consequences. Diagnostic errors may cause harm to patients by preventing or delaying appropriate treatment, providing unnecessary or harmful treatment, or resulting in psychological or financial repercussions. The committee concluded that improving the diagnostic process is not only possible, but also represents a moral, professional, and public health imperative. Improving Diagnosis in Health Care a continuation of the landmark Institute of Medicine reports To Err Is Human (2000) and Crossing the Quality Chasm (2001) finds that diagnosis-and, in particular, the occurrence of diagnostic errorsâ€"has been largely unappreciated in efforts to improve the quality and safety of health care. Without a dedicated focus on improving diagnosis, diagnostic errors will likely worsen as the delivery of health care and the diagnostic process continue to increase in complexity. Just as the diagnostic process is a collaborative activity, improving diagnosis will require collaboration and a widespread commitment to change among health care professionals, health care organizations, patients and their families, researchers, and policy makers. The recommendations of Improving Diagnosis in Health Care contribute to the growing momentum for change in this crucial area of health care quality and safety.

Posttraumatic Growth-Richard G. Tedeschi 2018-06-12 Posttraumatic Growth reworks and overhauls the seminal 2006 Handbook of Posttraumatic Growth. It provides a wide range of answers to questions concerning knowledge of posttraumatic growth (PTG) theory, its synthesis and contrast with other theories and models, and its applications in diverse settings. The

book starts with an overview of the history, components, and outcomes of PTG. Next, chapters review quantitative, qualitative, and cross-cultural research on PTG, including in relation to cognitive function, identity formation, cross-national and gender differences, and similarities and differences between adults and children. The final section shows readers how to facilitate optimal outcomes with PTG at the level of the individual, the group, the community, and society.

How Much Is Enough?-Alain C. Enthoven 2005-10-18 Originally published in 1971, and now published with a new foreword, this is a book of enduring value and lasting relevance. The authors detail the application, history, and controversies surrounding the Planning, Programming, and Budgeting System (PPBS), used to evaluate military needs and to choose among alternatives for meeting those needs.

Counter-Unmanned Aircraft System (CUAS) Capability for Battalion-and-Below Operations-National Academies of Sciences, Engineering, and Medicine 2018-03-29 The development of inexpensive small unmanned aircraft system (sUAS) technologies and the growing desire of hobbyists to have more and more capability have created a sustained sUAS industry, however these capabilities are directly enabling the ability of adversaries to threaten U.S. interests. In response to these threats, the U.S. Army and other Department of Defense (DoD) organizations have invested significantly in counter-sUAS technologies, often focusing on detecting radio frequency transmissions by sUASs and/or their operators, and jamming the radio frequency command and control links and Global Positioning System signals of individual sUASs. However, today's consumer and customized sUASs can increasingly operate without radio frequency command and control links by using automated target recognition and tracking, obstacle avoidance, and other software-enabled capabilities. The U.S. Army tasked the National Academies of Sciences, Engineering, and Medicine to conduct a study to address the above concerns. In particular, the committee was asked to assess the sUAS threat, particularly when massed and collaborating; assess current capabilities of battalion-and-below infantry units to counter sUASs; identify counter-sUAS technologies

appropriate for near- term, mid-term, and far-term science and technology investment; consider human factors and logistics; and determine if the Department of Homeland Security could benefit from DoD efforts. This abbreviated report provides background information on the full report and the committee that prepared it.

How Tobacco Smoke Causes Disease-U. s. Department of Health and Human Services Staff 2010 This report considers the biological and behavioral mechanisms that may underlie the pathogenicity of tobacco smoke. Many Surgeon General's reports have considered research findings on mechanisms in assessing the biological plausibility of associations observed in epidemiologic studies. Mechanisms of disease are important because they may provide plausibility, which is one of the guideline criteria for assessing evidence on causation. This report specifically reviews the evidence on the potential mechanisms by which smoking causes diseases and considers whether a mechanism is likely to be operative in the production of human disease by tobacco smoke. This evidence is relevant to understanding how smoking causes disease, to identifying those who may be particularly susceptible, and to assessing the potential risks of tobacco products.

Practical Reliability Engineering-Patrick O'Connor 1997-02-24 This classic textbook/reference contains a complete integration of the processes which influence quality and reliability in product specification, design, test, manufacture and support. Provides a step-by-step explanation of proven techniques for the development and production of reliable engineering equipment as well as details of the highly regarded work of Taguchi and Shainin. New to this edition: over 75 pages of self-assessment questions plus a revised bibliography and references. The book fulfills the requirements of the qualifying examinations in reliability engineering of the Institute of Quality Assurance, UK and the American Society of Quality Control.

Achieving Product Reliability-Necip Doganaksoy 2021-06-22 Are you

buying a car or smartphone or dishwasher? We bet long-term, trouble-free operation (i.e., high reliability) is among the top three things you look for. Reliability problems can lead to everything from minor inconveniences to human disasters. Ensuring high reliability in designing and building manufactured products is principally an engineering challenge–but statistics plays a key role. Achieving Product Reliability explains in a non-technical manner how statistics is used in modern product reliability assurance. Features: Describes applications of statistics in reliability assurance in design, development, validation, manufacturing, and field tracking. Uses real-life examples to illustrate key statistical concepts such as the Weibull and lognormal distributions, hazard rate, and censored data. Demonstrates the use of graphical tools in such areas as accelerated testing, degradation data modeling, and repairable systems data analysis. Presents opportunities for profitably applying statistics in the era of Big Data and Industrial Internet of Things (IIoT) utilizing, for example, the instantaneous transmission of large quantities of field data. Whether you are an intellectually curious citizen, student, manager, budding reliability professional, or academician seeking practical applications, Achieving Product Reliability is a great starting point for a big-picture view of statistics in reliability assurance. The authors are world-renowned experts on this topic with extensive experience as company-wide statistical resources for a global conglomerate, consultants to business and government, and researchers of statistical methods for reliability applications.

The European Union-Kristin Archick 2021-02-05 The European Union (EU) is a political and economic partnership that represents a unique form of cooperation among sovereign countries. The EU is the latest stage in a process of integration begun after World War II, initially by six Western European countries, to foster interdependence and make another war in Europe unthinkable. The EU currently consists of 27 member states, including most of the countries of Central and Eastern Europe, and has helped to promote peace, stability, and economic prosperity throughout the European continent.This report serves as a primer on the EU. It also discusses U.S.-EU relations

The Noncommissioned Officer and Petty Officer- 2020-05-22 A first of its kind, this book-of, by, and for the noncommissioned officer and petty officer-is a comprehensive explanation of the enlisted leader across the U.S. Armed Services. It complements The Armed Forces Officer, the latest edition of which was published by NDU Press in 2007, as well as the Services' NCO/PO manuals and handbooks. Written by a team of Active, Reserve, and retired senior enlisted leaders from all Service branches, this book defines and describes how NCOs/POs fit into an organization, centers them in the Profession of Arms, explains their dual roles of complementing the officer and enabling the force, and exposes their international engagement. As Chairman of the Joint Chiefs of Staff General Martin E. Dempsey writes in his foreword to the book, "We know noncommissioned officers and petty officers to have exceptional competence, professional character, and soldierly grit-they are exemplars of our Profession of Arms."Aspirational and fulfilling, this book helps prepare young men and women who strive to become NCOs/POs, re-inspires serving enlisted leaders, and stimulates reflection by those who have retired from or left active service. It also gives those who have never worn the uniform a better understanding of who these exceptional men and women are, and why they are properly known as the "Backbone of the Armed Forces."

System Reliability Theory-Marvin Rausand 2020-10-20 Handbook and reference for industrial statisticians and system reliability engineers System Reliability Theory: Models, Statistical Methods, and Applications, Third Edition presents an updated and revised look at system reliability theory, modeling, and analytical methods. The new edition is based on feedback to the second edition from numerous students, professors, researchers, and industries around the world. New sections and chapters are added together with new real-world industry examples, and standards and problems are revised and updated. System Reliability Theory covers a broad and deep array of system reliability topics, including: · In depth discussion of failures and failure modes · The main system reliability assessment methods · Common-cause failure modeling · Deterioration modeling · Maintenance modeling and assessment using Python code · Bayesian probability and methods · Life data analysis using R Perfect for undergraduate and graduate students taking courses in reliability engineering, this book also serves as a reference and resource for practicing statisticians and

engineers. Throughout, the book has a practical focus, incorporating industry feedback and real-world industry problems and examples.