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Airman's Manual Airman's Manual Elyover Airman's Manual Firefighting Guide for Contingency Operations, Air Force Handbook 32-2005, July 15, 2009 Air Force Handbook 1 Operating Safely in Hazardous Environments Air Force Officer's Guide Air Force Officer's Guide The Air Force Law Review Manuals Combined: EOD, UXO, IED, DEMOLITION MATERIALS, LAND MINE WARFARE, MINE/COUNTERMINE OPERATIONS AND PHYSICAL SECURITY OF ARMS, AMMUNITION, AND EXPLOSIVES Defense Transportation: Algorithms, Models and Applications for the 21st Century Department of Defense Dictionary of Military and Associated Terms 2003 Logistics Demensions AFOTC - Field Training Manual Soldiers' and Sailors' Civil Relief Act User's Guide for JOPES (Joint Operation Planning and Execution System). Liquid Fueling and Dispensing Facilities The Tongue and Quill Dynamic Stochastic Optimization Air University Style and Author Guide Overseas Basing of U.S. Military Forces Dietary Reference Intakes for Water, Potassium, Sodium, Chloride, and Sulfate Sharing the Journey Guide to Fighting Positions, Obstacles, and Revetments Proliferation, Threat and Response Chasing Success Air Force Journal of Logistics Drill and Ceremonies Professional Development Guide - Air Force Pamphlet 36-2241 The Stryker Brigade Combat Team Red Horse Program Women and Military Service Ten Propositions Regarding Space Power Aeromedical Training for Flight Personnel (TC 3-04. 93) Mental Health Stigma in the Military Reducing Suicide Joint Ethics Regulation (JER). Air Force System Safety Handbook - Costs, Objectives, Policy and Process, Risk Assessment, Flight Mishaps, Analysis Techniques, Contractors, Nuclear and Explosive Hazards, Biomedical Safety Returning Home from Iraq and Afghanistan

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Dietary Reference Intakes for Water, Potassium, Sodium, Chloride, and Sulfate Dec 06 2020 Dietary Reference Intakes for Water, Potassium, Sodium, Chloride, and Sulfate The Dietary Reference Intakes (DRIs) are quantitative estimates of nutrient intakes to be used for planning and assessing diets for healthy people. This new report, the sixth in a series of reports presenting dietary reference values for the intakes of nutrients by Americans and Canadians, establishes nutrient recommendations on water, potassium, and salt for health maintenance and the reduction of chronic disease risk. Dietary Reference Intakes for Water, Potassium, Sodium, Chloride, and Sulfate discusses in detail the role of water, potassium, salt, chloride, and sulfate in human physiology and health. The major findings in this book include the establishment of Adequate Intakes for total water (drinking water, beverages, and food), potassium, sodium, and chloride and the establishment of Tolerable Upper Intake Levels for sodium and chloride. The book makes research recommendations for information needed to advance the understanding of human requirements for water and electrolytes, as well as adverse effects associated with the intake of excessive amounts of water, sodium, chloride, potassium, and sulfate. This book will be an invaluable reference for nutritionists, nutrition researchers, and food manufacturers.

Overseas Basing of U.S. Military Forces Jan 07 2021 This independent assessment is a comprehensive study of the strategic benefits, risks, and costs of U.S. military presence overseas. The report provides policymakers a way to evaluate the range of strategic benefits and costs that follow from revising the U.S. overseas military presence by characterizing how this presence contributes to assurance, deterrence, responsiveness, and security cooperation goals.

Air University Style and Author Guide Feb 08 2021 The faculty, staff and students of Air University will find that this Guide is designed to unify their writing stylistically and to give them information about publishing with AU Press. Rapid expansion in the field of electronic media - especially the internet - has made AU research and writing increasingly accessible. Bases on recognized but forward-looking principles of standard English usage, this Guide provides reliable guidance on such matters as punctuation, capitalization, abbreviation, documentation, numbers, spelling, and much more.

2003 Logistics Demensions Sep 15 2021

Red Horse Program Feb 26 2020

Sharing the Journey Nov 05 2020

Soldiers' and Sailors' Civil Relief Act Jul 13 2021

Firefighting Guide for Contingency Operations, Air Force Handbook 32-2005, July 15, 2009 Jun 24 2022

Operating Safely in Hazardous Environments Apr 22 2022 Designed To Meet The Many Training/Certification Regulations Required Of Employees Working In hazardous environments, this edition Has Been Revised To Reflect Updates In Technology, Equipment, And Regulations.

Elyover Aug 26 2022

Airman's Manual Sep 27 2022 This manual applies to Air Force active duty, Air Force Reserve, Air National Guard, emergency essential civilians and contract personnel. This manual contains the latest changed approved by the Air Force effective JUNE 24, 2011. It compiles existing war skill tactics, techniques, and procedures from many sources into a pocket-sized, quick reference guide. This manual implements AFPD 10-25, Emergency Management, and incorporates provisions of various International Agreements and Conventions, US Codes, DOD Directives, Chairman of the Joint Chiefs of Staff Command Instructions, Uniform Code of Military Justice, Air Force Instructions, Manuals, Pamphlets, Visual Aids and Handbooks; AF Occupational Safety and Health Standards, Technical Orders, Guides, and Concepts of Operation. FROM THE INTRODUCTION: As an expeditionary Airman you must stay ready to deploy anywhere in the world on short notice. This manual doesn't contain everything you must know. It doesn't focus on the integrated joint or multinational nature of combat operations. It doesn't replace regulations or local procedures you'll need to follow. This manual does, however, cover basic warfighting skills and points of knowledge with the intent to help you successfully complete the mission. The tasks outlined in this manual apply at both deployed and home station locations. Keep the Airman's Manual close to you; use it while training and exercising for contingencies and deployments. Refer to it often... you'll need it. Fly, Fight, and Win! SECTIONS INCLUDE: Staying Ready, Deploy, Employment, Fight, Survive, A Quick Reference Guide. AFPAM 10-100 March 2009

Air Force Journal of Logistics Jul 01 2020

Professional Development Guide - Air Force Pamphlet 36-2241 Apr 29 2020 This pamphlet implements AFPD 36-22, Air Force Military Training, and AFI 36-2642, Professional Advancement and Continuous Education. Information in this guide is taken primarily from Air Force publications and based on knowledge requirements from the Military Knowledge and Testing System (MKTS) as determined by the MKTS Advisory Council of the Chief Master Sergeant of the Air Force (CMSAF) and major command (MAJCOM) command chief master sergeants (CCM). Attachment 1 contains references and supporting information used in this publication. The use of the name or mark of any specific manufacturer, commercial product, commodity, or service in this publication does not imply endorsement by the Air Force. This guide is the sole source reference material for the Promotion Fitness Examination (PFE) and United States Air Force Supervisory Examination (USAFSE).

Reducing Suicide Sep 22 2019 Every year, about 30,000 people die by suicide in the U.S., and some 650,000 receive emergency treatment after a suicide attempt. Often, those most at risk are the least able to access professional help. Reducing Suicide provides a blueprint for addressing this tragic and costly problem: how we can build an appropriate infrastructure, conduct needed research, and improve our ability to recognize suicide risk and effectively intervene. Rich in data, the book also strikes an intensely personal chord, featuring compelling quotes about people's experience with suicide. The book explores the factors that raise a person's risk of suicide: psychological and biological factors including substance abuse, the link between childhood trauma and later suicide, and the impact of family life, economic status, religion, and other social and cultural conditions. The authors review the effectiveness of existing interventions, including mental health practitioners' ability to assess suicide risk among patients. They present lessons learned from the Air Force suicide prevention program and other prevention initiatives. And they identify barriers to effective research and treatment. This new volume will be of special interest to policy makers, administrators, researchers, practitioners, and journalists working in the field of mental health.

Liquid Fueling and Dispensing Facilities May 11 2021

Aeromedical Training for Flight Personnel (TC 3-04. 93) Nov 24 2019 This manual is intended for use by all Army crewmembers in meeting

requirements set forth in Army Regulation 95-1, Training Circular 1-210, and other appropriate aircrew training manuals. Lessons learned from previous military conflicts and recent contingency operations have caused changes in Army aviation doctrine. With the development of more sophisticated aircraft and weapons systems, Army crewmembers must be capable of operating these systems around the clock, in austere environments, and under adverse conditions. The hazards of stress and fatigue in combat operations and concept of operations will eventually take a toll in aircrew performance and could jeopardize mission accomplishment unless crewmembers are trained to recognize and understand these hazards. Proper training prepares crewmembers and prevents stress and fatigue from reducing mission effectiveness, thereby increasing their chances of survival. Training Circular 3-04.93 provides crewmembers with an understanding of the physiological responses that can occur in the aviation environment. It also describes the effects of the flight environment on individual mission accomplishment. In addition, this publication outlines essential aeromedical training requirements (in Chapter 1) that assist commanders and flight surgeons in conducting aeromedical education for Army crewmembers. Subject areas addressed are by no means all inclusive but are presented to assist crewmembers in increasing performance and efficiency. This publication applies to the Active Army, the Army National Guard/Army National Guard of the United States, and the United States Army Reserve unless otherwise stated.

Ten Propositions Regarding Space Power Dec 26 2019 This public domain reproduction in durable hardcover matte rides the coattails of Colonel Philip S. Meininger's book, Ten Propositions Regarding Air Power. As the United States ponders its future regarding space operations, the time has come to frame similar propositions regarding spacepower. Specifically, this study seeks to answer the question, "What is the nature of spacepower?" It also test the aerospace integration school's hypothesis that spacepower is simply a continuation or extension of airpower. Two points come immediately to the forefront of this work. First, spacepower is different from airpower even though both share the vertical dimension of warfare. Second, space operations have matured to a point where valid and unique propositions regarding spacepower are identifiable. The ten propositions presented here do not represent a complete list. The method used to derive these propositions involved literary research that result in a long list. The list evolved over three years during numerous brainstorming with several space experts--most of them space weapons officers with theater and often combat experience--until the list was carefully refined into the ten most salient propositions. There were many ways to present the Ten Propositions Regarding Spacepower, but the author deferred to Meininger's approach of citing each proposition as a thesis statement with supporting material immediately following. The objective of this work is to stimulate discussions and help those who do not yet understand or appreciate the nature of spacepower in modern warfare.

Department of Defense Dictionary of Military and Associated Terms Oct 16 2021

Air Force Officer's Guide Feb 20 2022 - U.S. Air Force organizations and types of assignments - Duties and responsibilities - Privileges, benefits, and restrictions - Customs and courtesies - Career development and promotion - Pay and allowances - Command and leadership - Uniforms and insignia - Complete data on Air Force installations worldwide - Extensive references to regulations and other information Updated to reflect changes in the military in general and the Air Force in particular, this new edition of Air Force Officer's Guide contains professional materials needed for a successful career as an Air Force officer, from cadet to general, both active duty and reserves.

The Tongue and Quill Apr 10 2021 The Tongue and Quill has been a valued Air Force resource for decades and many Airmen from our Total Force of uniformed and civilian members have contributed their talents to various editions over the years. This revision is built upon the foundation of governing directives and user's inputs from the unit level all the way up to Headquarters Air Force. A small team of Total Force Airmen from the Air University, the United States Air Force Academy, Headquarters Air Education and Training Command (AETC), the Air Force Reserve Command (AFRC), Air National Guard (ANG), and Headquarters Air Force compiled inputs from the field and rebuilt The Tongue and Quill to meet the needs of today's Airmen. The team put many hours into this effort over a span of almost two years to improve the content, relevance, and organization of material throughout this handbook. As the final files go to press it is the desire of The Tongue and Quill team to say thank you to every Airman who assisted in making this edition better; you have our sincere appreciation!

Joint Ethics Regulation (JER). Aug 22 2019

Women and Military Service Jan 27 2020

Air Force Officer's Guide Mar 21 2022 Air Force officers of all ranks, from cadets to generals, both active duty and reserves, will find this revised edition essential reading for a successful career. Fully updated with the latest changes to Air Force policy and procedure, this military reference guide includes: • Current guidelines for training, conduct, pay and benefits, decorations and awards, and more • Extensive updates to uniforms and insignia • Information on family services and benefits • Revised charts, illustrations, and sample forms Airman's Manual Oct 28 2022 This manual applies to Air Force active duty, Air Force Reserve, Air National Guard, emergency essential civilians and contract personnel. This manual contains the latest changed approved by the Air Force effective JUNE 24, 2011. It compiles existing war skill tactics, techniques, and procedures from many sources into a pocket-sized, quick reference guide. This manual implements AFPD 10-25, Emergency Management, and incorporates provisions of various International Agreements and Conventions, US Codes, DOD Directives, Chairman of the Joint Chiefs of Staff Command Instructions, Uniform Code of Military Justice, Air Force Instructions, Manuals, Pamphlets, Visual Aids and Handbooks; AF Occupational Safety and Health Standards, Technical Orders, Guides, and Concepts of Operation. As an expeditionary Airman you must stay ready to deploy anywhere in the world on short notice. This manual doesn't contain everything you must know. It doesn't focus on the integrated joint or multinational nature of combat operations. It doesn't replace regulations or local procedures you'll need to follow. This manual does, however, cover basic warfighting skills and points of knowledge with the intent to help you successfully complete the mission. The tasks outlined in this manual apply at both deployed and home station locations. Keep the Airman's Manual close to you; use it while training and exercising for contingencies and deployments. Refer to it often... you'll need it. Fly, Fight, and Win! AFPAM 10-100.

User's Guide for JOPES (Joint Operation Planning and Execution System). Jun 12 2021

Defense Transportation: Algorithms, Models and Applications for the 21st Century Nov 17 2021 This book contains papers divided into three general sections according to the title of this text: algorithms, models, and applications. The first section on algorithms contains papers that are theoretical in nature or contain new techniques that relate to Defense Transportation System (DTS) processes. A sampling of the papers contained in this section deals with group theoretic "tabu" search techniques, shortest path sailing distance algorithms, and strategic airlift model validation methods. The second section contains papers on various transportation models used throughout the DoD and transportation industry, as well as some newly developed transportation modelling methods that may eventually find their way into larger scale transportation models. A review of the major strategic mobility models is also contained in this section. The third section contains papers on various transportation applications that have been used to support various DTS studies and analyses. This section also contains a diverse set of topics, with articles ranging from a paper on North Atlantic Treaty Organization (NATO) strategic lift requirements to an analysis paper on theater reception, staging, onward movement, and integration. • Preface by General John W. Handy, Commander, United States Transportation Command • Focus on land, sea, and air transportation models and methods • Manuscripts written by analysts and researchers active in the field and directly supporting the United States Defense Transportation System • Research methods were instrumental in defining the in-place DTS that so efficiently deployed forces for Operation Enduring Freedom and Operation Iraqi Freedom Manuals Combined: EOD, UXO, IED, DEMOLITION MATERIALS, LAND MINE WARFARE, MINE/COUNTERMINE OPERATIONS AND PHYSICAL SECURITY OF ARMS, AMMUNITION, AND EXPLOSIVES Dec 18 2021 Over 3,700 total pages ... The Manuals and Publications included: IMPROVISED EXPLOSIVE DEVICE (IED) W3H005XQ STUDENT HANDOUT IMPROVISED EXPLOSIVE DEVICE (IED) B3L0487XQ-DM STUDENT HANDOUT MOTORIZED CONVOY OPERATIONS B4P0573XQ-DM STUDENT HANDOUT TECHNICAL MANUAL ARMY AMMUNITION DATA SHEETS FOR DEMOLITION MATERIALS TECHNICAL MANUAL OPERATORS AND ORGANIZATIONAL MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST) DEMOLITION MATERIALS IMPROVISED EXPLOSIVE DEVICE (IED) DEFEAT LAND-MINE WARFARE OPERATOR'S AND UNIT MAINTENANCE MANUAL FOR LAND MINES TECHNICAL MANUAL DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL FOR LAND MINES TECHNICAL MANUAL OPERATOR'S MANUAL FOR BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC) OPERATOR'S MANUAL MINE FIELD MARKING SET HAND EMPLOYABLE M133 ORDNANCE AND EXPLOSIVES RESPONSE MULTISERVICE PROCEDURES FOR UNEXPLODED ORDNANCE OPERATIONS EOD - MULTI-SERVICE TACTICS, TECHNIQUES, AND PROCEDURES FOR EXPLOSIVE ORDNANCE DISPOSAL IN A JOINT ENVIRONMENT Physical Security of Arms, Ammunition, and Explosives DOD AMMUNITION AND EXPLOSIVES SAFETY STANDARDS INDIVIDUAL TRAINING STANDARDS (ITS) SYSTEM FOR AMMUNITION AND EXPLOSIVE ORDNANCE DISPOSAL OCCUPATIONAL FIELD (OCFLD) 23 EXPLOSIVE ORDNANCE DISPOSAL (EOD) PROGRAM LIST OF STORAGE AND UNLOADING DRAWINGS AND AMMUNITION Ammunition and Explosives Safety Standards DOE Explosives Safety Manual Individual Tasks, EQT (Explosives Hazards) Ammunition Handbook: Tactics, Techniques, and Procedures for Munitions Handlers Mine/Countermining Operations Munitions Handling During Deployed Operations - 101

Proliferation, Threat and Response Sep 03 2020

Air Force Handbook 1 May 23 2022 This handbook implements AFPD 36-22, Air Force Military Training. Information in this handbook is primarily from Air Force publications and contains a compilation of policies, procedures, and standards that guide Airmen's actions within the Profession of Arms. This handbook applies to the Regular Air Force, Air Force Reserve and Air National Guard. This handbook contains the basic information Airmen need to understand the professionalism required within the Profession of Arms. Attachment 1 contains references and supporting information used in this publication. This handbook is the sole source reference for the development of study guides to support the enlisted promotion system. Enlisted Airmen will use these study guide to prepare for their Promotion Fitness

Examination (PFE) or United States Air Force Supervisory Examination (USAFSE).

Airman's Manual Jul 25 2022

AFROTC - Field Training Manual Aug 14 2021 Welcome to Field Training Preparation. This Field Training Manual (FTM) is yours to keep, and you must take it with you to Field Training (FT). Everything you need to know to prepare for the in-garrison portion of FT is included within this FTM as well as the Airman's Manual (AFAM 10-100). Although you will be provided additional instructions upon deployment to Camp Shelby Joint Forces Training Center (CSJFTC), you will be responsible for the content of this manual for the entire duration of FT. You may write in, highlight, tab, or underline this manual as desired. Ensure you have a thorough understanding of this material prior to departing for your Field Training Unit (FTU); you will be held accountable upon arrival. Field Training is a mandatory program for all individuals qualified to pursue an Air Force commission through AFROTC. The program is designed to evaluate military leadership and discipline, determine your potential for entry into the professional officer corps, and stratify you among your peers. FT is conceived as a mock Air Expeditionary Force (AEF) deployment, and is therefore designed in line with the Airman's Manual (provided to you hard copy by your detachment and online at <http://www.e-publishing.af.mil/shared/media/epubs/AFAM10-100.pdf>). For this reason, all cadets attending FT will be required to demonstrate familiarity with any and all sections of the Airman's Manual at any point during the FT experience. Please reference Attachment 1, FTU Training Phases by Training Day, for the sections of the Airman's Manual cadets will most likely utilize during particular phases of FT. Keep in mind that this is not a hard-and-fast agenda, FTU staff may adjust the timeline when required or when deemed prudent and necessary for the attainment of FT goals. The sections and/or paragraphs of this FTM are identified by three different levels of understanding- Knowledge, Familiarization and Information. Knowledge: These sections will be indicated by a (k). You will memorize and demonstrate proficiency in these areas and will be required to take a closed-book test on the information. Familiarization: These will be indicated by an (f). You will not be required to memorize the information, but will be held accountable for finding the information when necessary. Information: These sections will be indicated by an (i). These areas are for informational purposes only, you will not be required to memorize the information and will not be tested on it. Your detachment staff will provide you with orders, tickets, uniforms and other items, which you are required to take to FT. You'll need to keep two copies of your orders with you at all times. Before you depart, provide your family with a copy of your orders, scheduled departure times and return times, and the FTU address and phone number (annotated within this document). You MUST show up to field training with all required items and proper documentation. If you fail to adhere to these guidelines, you risk being disqualified from FT. Advise your family that if an emergency should arise, the best way to contact you is through the detachment for general information or the American Red Cross. This method is usually faster than a telegram or personal phone call and will provide official verification of the emergency. If you have a pending family/personal issue that may become an emergency while you are at field training, you MUST let your detachment personnel and field training cadre know as soon as possible. Also, it is extremely important that prior to departing for FT, you verify and update your emergency data (name and address of next of kin) with your detachment personnel. Cadets are not permitted to have visitors while at field training. Advise both family and friends they will not be allowed to visit with you while assigned to the FTU.

The Air Force Law Review Jan 19 2022

Air Force System Safety Handbook - Costs, Objectives, Policy and Process, Risk Assessment, Flight Mishaps, Analysis Techniques, Contractors, Nuclear and Explosive Hazards, Biomedical Safety Jul 21 2019 The Air Force System Safety Handbook was prepared as a resource document for program office system safety managers and system safety engineers. It is not designed to answer every question on the topic of system safety nor is it a cookbook that guarantees success. The handbook provides considerable insight to the general principles, objectives, and requirements of applying system safety concepts to the Air Force system acquisition and logistical support processes. Programs vary greatly in their scope and complexity, requiring a tailored system safety effort. Assigned to this difficult task are military and government personnel with varied education and experience backgrounds. These system safety practitioners need a comprehensive understanding of the system safety process and the complexities of applying it to a given program. This handbook will assist in providing much of the necessary information but additional, more detailed guidance will be required from the program office and their higher headquarters system safety experts. The ultimate objective of any organization within the Air Force is maximizing combat capability. One element in this maximizing process is protecting and conserving combat weapon systems and their support equipment. Preventing mishaps and reducing system losses is one important aspect of conserving these resources. System safety contributes to mishap prevention by minimizing system risks due to hazards consistent with other cost, schedule, and design requirements. The fundamental objective of system safety is to identify, eliminate or control, and document system hazards. 1.0 Introduction To System Safety * 2.0 System Safety Policy And Process * 3.0 Risk Assessment * 4.0 System Safety Program * 5.0 System Safety Program Plan (Spp) * 6.0 Other Management Tasks (Ref 30) * 7.0 Design And Integration Tasks * 8.0 Design Evaluation, Compliance, And Verification * 9.0 Analysis Techniques * 10.0 System Safety Life-Cycle Activities * 11.0 Program Office System Safety * 12.0 Contracting For System Safety * 13.0 Evaluating Contractor System Safety * 14.0 Facilities System Safety * 15.0 Supplementary Requirements * 16.0 Nuclear Safety * 17.0 Explosives Safety * 18.0 System Safety In Logistics * 20.0 Test And Evaluation Safety

Chasing Success Aug 02 2020 This book examines how international expectations intersected with the United States Air Force's fight for autonomy and utility, explains how the service began to change, and asks how airpower-and the US military as a whole-might further deepen its efforts. The author expands perspectives on assessing and directing the use of airpower and encourages further work to maximize both mission accomplishment and civilian protection. The recent evolution of US airpower offers inspiring, if incomplete, evidence that the conduct of war can become more humane while remaining effective. Technology, adversaries, and the goals of armed conflict will continue to evolve, but the central challenge of humanizing war will endure. Part one outlines the challenge that contemporary expectations about the American use of force pose for airpower. Part two describes the Air Force's adaptation to modern expectations of civilian protection, tracing operational experiences during the 1990s and the consequent operational and institutional innovation.

Drill and Ceremonies May 31 2020

Mental Health Stigma in the Military Oct 24 2019 This report assesses the U.S. military's approach to reducing stigma for mental health disorders and their treatment, how well it is working, and how it might be improved. It presents priorities for program and policy development and research and evaluation to get service members the treatment they need as efficiently and effectively as possible.

Guide to Fighting Positions, Obstacles, and Revetments Oct 04 2020

Returning Home from Iraq and Afghanistan Jun 19 2019 Nearly 1.9 million U.S. troops have been deployed to Afghanistan and Iraq since October 2001. Many service members and veterans face serious challenges in readjusting to normal life after returning home. This initial book presents findings on the most critical challenges, and lays out the blueprint for the second phase of the study to determine how best to meet the needs of returning troops and their families.

The Stryker Brigade Combat Team Mar 29 2020 Examines alternative means to decrease the deployment time for the new Army medium-weight brigade, comparing air and sealift from the United States with air and fast (but short-range) sealift from forward bases or preposition sites. Historical experience and an assessment of U.S. regional interests are used to determine how much warning time the United States typically has before major force deployments and where it is most likely to deploy such forces

Dynamic Stochastic Optimization Mar 09 2021 Uncertainties and changes are pervasive characteristics of modern systems involving interactions between humans, economics, nature and technology. These systems are often too complex to allow for precise evaluations and, as a result, the lack of proper management (control) may create significant risks. In order to develop robust strategies we need approaches which explicitly deal with uncertainties, risks and changing conditions. One rather general approach is to characterize (explicitly or implicitly) uncertainties by objective or subjective probabilities (measures of confidence or belief). This leads us to stochastic optimization problems which can rarely be solved by using the standard deterministic optimization and optimal control methods. In the stochastic optimization the accent is on problems with a large number of decision and random variables, and consequently the focus of attention is directed to efficient solution procedures rather than to (analytical) closed-form solutions. Objective and constraint functions of dynamic stochastic optimization problems have the form of multidimensional integrals of rather involved in that may have a nonsmooth and even discontinuous character - the tegrands typical situation for "hit-or-miss" type of decision making problems involving irreversibility of decisions or/and abrupt changes of the system. In general, the exact evaluation of such functions (as is assumed in the standard optimization and control theory) is practically impossible. Also, the problem does not often possess the separability properties that allow to derive the standard in control theory recursive (Bellman) equations.

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