

Army Science and Technology Analysis for Stabilization and Reconstruction Operations

Richard Chait, Albert Sciarretta, and Dennis Shorts

Center for Technology and National Security Policy

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Army Science And Technology Analysis For Stabilization And Reconstruction Operations

Sean T. Lawson



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Army Science and Technology Analysis for Stabilization and Reconstruction Operations Richard Chait, 2006 Examines capability gaps and science and technology needs of the Army to facilitate post conflict reconstruction and stabilization operations *Army Science and Technology Analysis for Stabilization and Reconstruction Operations* Richard Chait, 2006

Cyberpower and National Security Franklin D. Kramer, Stuart H. Starr, Larry K. Wentz, 2009 This book creates a framework for understanding and using cyberpower in support of national security Cyberspace and cyberpower are now critical elements of international security United States needs a national policy which employs cyberpower to support its national security interests **Making the Soldier Decisive on Future Battlefields** National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Making the Soldier Decisive on Future Battlefields, 2013-06-10 The U S military does not believe its soldiers sailors airmen and marines should be engaged in combat with adversaries on a level playing field Our combat individuals enter engagements to win To that end the United States has used its technical prowess and industrial capability to develop decisive weapons that overmatch those of potential enemies In its current engagement what has been identified as an era of persistent conflict the nation s most important weapon is the dismounted soldier operating in small units Today s soldier must be prepared to contend with both regular and irregular adversaries Results in Iraq and Afghanistan show that while the U S soldier is a formidable fighter the contemporary suite of equipment and support does not afford the same high degree of overmatch capability exhibited by large weapons platforms yet it is the soldier who ultimately will play the decisive role in restoring stability Making the Soldier Decisive on Future Battlefields establishes the technical requirements for overmatch capability for dismounted soldiers operating individually or in small units It prescribes technological and organizational capabilities needed to make the dismounted soldier a decisive weapon in a changing uncertain and complex future environment and provides the Army with 15 recommendations on how to focus its efforts to enable the soldier and tactical small unit TSU to achieve overmatch

Guide to American Graduate Schools Harold R. Doughty, 2009-02-24 For students planning further study after college the Guide to American Graduate Schools puts the necessary information at their fingertips Completely revised and updated this long trusted and indispensable tool features comprehensive information on every aspect of graduate and professional study including Alphabetically arranged profiles of more than 1 200 accredited institutions including enrollment locations libraries and other facilities and housing situations Fields of study offered by each institution and types of degrees conferred Admissions standards and requirements recruitment practices and degree requirements Tuition costs and opportunities for financial aid Details on scholarships fellowships assistantships and internships Organized in a clear straightforward easy to use format this is the essential source with which to begin planning for the future **Defense Modeling, Simulation, and Analysis** National Research Council, Division on Engineering and Physical Sciences, Board on Mathematical Sciences and

Their Applications, Committee on Modeling and Simulation for Defense Transformation, 2006-09-22 Modeling simulation and analysis MS A is a crucial tool for military affairs MS A is one of the announced pillars of a strategy for transforming the U S military Yet changes in the enterprise of MS A have not kept pace with the new demands arising from rapid changes in DOD processes and missions or with the rapid changes in the technology available to meet those demands To help address those concerns DOD asked the NRC to identify shortcomings in current practice of MS A and suggest where and how they should be resolved This report provides an assessment of the changing mission of DOD and environment in which it must operate an identification of high level opportunities for MS A research to address the expanded mission approaches for improving the interface between MS A practitioners and decision makers a discussion of training and continuing education of MS A practitioners and an examination of the need for coordinated military science research to support MS A Naval Peacekeeping and Humanitarian Operations James J. Wirtz, Jeffrey A. Larsen, 2008-10-29 This edited volume explores stability security transition and reconstruction operations SSTR highlighting the challenges and opportunities they create for the US Navy The book argues that SSTR operations are challenging because they create new missions and basing modes and signal a return to traditional naval methods of operation Mission accomplishment requires collaboration with a wide range of actors representing governmental non governmental and commercial organizations which often creates politically and bureaucratically charged issues for those involved However although from a traditional warfighting perspective stability operations might be viewed as having little to do with preparing for high intensity conventional combat these kinds of operations in fact correspond to traditional missions related to diplomacy engagement maritime domain awareness piracy and smuggling and intervention to quell civil disturbances SSTR operations can be therefore depicted as a return to traditional naval operations albeit operations that might not be universally welcomed in all quarters **Hearing on National Defense Authorization Act for Fiscal Year 2009 and Oversight of Previously Authorized Programs Before the Committee on Armed Services, House of Representatives, One Hundred Tenth Congress, Second Session** United States. Congress. House. Committee on Armed Services. Subcommittee on Terrorism, Unconventional Threats, and Capabilities, 2009 **Nonlinear Science and Warfare** Sean T. Lawson, 2013-11-26 This book examines the United States military's use of concepts from non linear science such as chaos and complexity theory in its efforts to theorise information age warfare Over the past three decades the US defence community has shown an increasing interest in learning lessons from the non linear sciences Theories strategies and doctrines of warfare that have guided the conduct of US forces in recent conflicts have been substantially influenced by ideas borrowed from non linear science including manoeuvre warfare network centric warfare and counterinsurgency This book accounts for the uses that the US military has made of non linear science by examining the long standing historical relationship between the natural sciences and Western militaries It identifies concepts and metaphors borrowed from natural science as a key formative factor behind the development of military theory

strategy and doctrine In doing so Nonlinear Science and Warfare not only improves our understanding of the relationship between military professional identity professional military education and changes in technology but also provides important insights into the evolving nature of conflict in the Information Age This book will be of much interest to students of strategic studies military science US foreign policy technology and war and security studies The Art of Peace Juliana Geran Pilon, 2017-07-05 Sun Tzu author of The Art of War believed that the acme of leadership consists in figuring out how to subdue the enemy with the least amount of fighting a fact that America s Founders also understood and practiced with astonishing success For it to work however a people must possess both the ability and the willingness to use all available instruments of power in peace as much as in war US foreign policy has increasingly neglected the instruments of civilian power and become overly dependent on lethal solutions to conflict The steep rise in unconventional conflict has increased the need for diplomatic and other non hard power tools of statecraft The United States can no longer afford to sit on the proverbial three legged national security stool military diplomacy development where one leg is a lot longer than either of the other two almost forgetting altogether the fourth leg information especially strategic communication and public diplomacy The United States isn t so much becoming militarized as DE civilianized According to Sun Tzu self knowledge is as important as knowledge of one s enemy if you know neither yourself nor the enemy you will succumb in every battle Alarminglly the United States is deficient on both counts And though we can stand to lose a few battles the stakes of losing the war itself in this age of nuclear proliferation are too high to contemplate

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