

Setting the Context

*Suppression of Enemy Air
Defenses and Joint War
Fighting in an Uncertain World*



James R. Brungess

Setting The Context Suppression Of Enemy

Kevin B. Bennett, John M. Flach



Setting The Context Suppression Of Enemy:

Setting the Context James R. Brungess, 1994 *Setting the context suppression of enemy air...* , *Setting the Context* Air University Press, U. S. Military, Department of Defense (DoD), James R. Brungess, U. S. Air Force (USAF), 2018-04 Colonel Brungess proposes using joint suppression of enemy air defenses JSEAD to address the problem of reduced SEAD resources available to individual services He contends that the demise of the Soviet Union presents the perfect transitional period for SEAD planners to create new approaches to countering the information based integrated air defense system nets He looks at the foundations and evolution of SEAD identifies pertinent variables and shows how they have changed Colonel Brungess concludes that fiscal reality demands that the services forge joint SEAD tactics and doctrine Contents FOREWORD PREFACE INTRODUCTION Chapter 1 HISTORY AND DOCTRINE The Evolutionary Construct Vietnam Bekaa Valley Libya Persian Gulf The Larger Context Notes Chapter 2 CRITERIA FOR ASSESSING SEAD EFFECTIVENESS Methods of Analysis The Historical Approach The Engineering Approach The Commonsense Approach The Objective based Approach Setting the Context Continuums as Assessment Tools Challenges for Objective based Criteria Notes Chapter 3 SERVICE APPROACHES TO SEAD Navy SEAD Air Force SEAD Army SEAD Marine SEAD Notes Chapter 4 THE MERITS OF JSEAD THE QUEST TO ACHIEVE EFFECTIVENESS The Personality of JSEAD and the Threat The World of Joint and JSEAD Brave New World True Joint SEAD The Four Continuums How to Use Them The Need Resource based Continuum The Threat Capability based Continuum The Piecemeal Integrated Tactics Continuum The Defensive Offensive Continuum The General Context A New Way of Looking at JSEAD Notes Chapter 5 JSEAD STRATEGY TACTICS AND THE CHANGED THREAT The Essence of the Threat Requirements of the Information based IADS Detecting Locating and Identifying Tracking Weapons Allocation and Employment Defeating the IADS Information Denial Detection as Information Locating and Identifying as Information Information Denial in the Endgame Adjusting to Fiscal Reality SEAD Tactics Variations Combinations and Innovations Variations The IADS Sweep Combining Old Tactics SEAD and the Modern Long Range SAM Innovations Information Denial via Computer Warfare Joint SEAD Strategy Dividing the Turf JSEAD Tactics So What Notes Chapter 6 WHERE TO NEXT CONCLUSIONS AND RECOMMENDATIONS Conclusions SEAD as an Evolutionary Concept Requirement for a Paradigm Shift The Lead Lag Issue Joint Doctrine and JSEAD Shifting the Focus of Criteria Overall Objectives Recommendations Education Training Equipment Full Circle The Strategy Doctrine Tactics Continuum **Information Warfare** , 1996 **Parameters** , 1994 **Breaking the Phalanx** Douglas A. Macgregor, 1997-01-30 This work proposes the reorganization of America's ground forces on the strategic operational and tactical levels Central to the proposal is the simple thesis that the U S Army must take control of its future by exploiting the emerging revolution in military affairs The analysis argues that a new Army warfighting organization will not only be more deployable and effective in Joint operations reorganized information age ground forces will be significantly less expensive to operate maintain and modernize than the Army's current Cold War division based

organizations And while ground forces must be equipped with the newest weapons new technology will not fulfill its promise of shaping the battlefield to American advantage if new devices are merely grafted on to old organizations that are not specifically designed to exploit them It is not enough to rely on the infusion of new expensive technology into the American defense establishment to preserve America's strategic dominance in the next century The work makes it clear that planes ships and missiles cannot do the job of defending America's global security issues alone The United States must opt for reform and reorganization of the nation's ground forces and avoid repeating Britain's historic mistake of always fielding an effective army just in time to avoid defeat but too late to deter an aggressor *The Arms of the Future* Jack

Watling, 2023-09-07 From sensor fuzed munitions and autonomous weapons to ground moving target indication radar laser vibrometers and artificial intelligence the weapons of warfare are undergoing a rapid transformation with modern technologies reshaping how armies intend to fight in the twenty first century *The Arms of the Future* analyses how the emergence of novel weapons systems is shaping the risks and opportunities on the battlefield Drawing on extensive practical observation and experimentation the book unpacks the operational challenges new weapons pose on the battlefield and how armies might be structured to overcome them At a time when defence spending across NATO is on the rise and conflict with Russia raises new questions of what it means to fight a truly modern war Watling examines not just the arms to be employed but how they can be fielded and wielded to survive and prevail in future wars *Display and Interface Design* Kevin B.

Bennett, John M. Flach, 2011-03-09 The reason that good interfaces are few and far between is really quite simple they are extremely difficult to design and build properly While there are many books available that address display design most of them focus on aesthetic principles but lack scientific rigor or are descriptive but not prescriptive This book elucidates an overarching framework for design that can be applied to the broad spectrum of existing domains The authors delineate analytical tools and principles of design that are general and powerful but very abstract accompanied by concrete examples of their use in a variety of domains of application The book includes access to a web site containing examples of the dynamic properties of displays **AU Press, Your Air and Space Power Publisher, 2003** ,2003 **Joint Force Quarterly** ,1993

Joint Force Quarterly is published for the Chairman Joint Chiefs of Staff by the Institute for National Strategic Studies National Defense University to promote understanding of the integrated employment of land sea air space and special operations forces The journal focuses on joint doctrine coalition warfare contingency planning combat operations conducted by the unified commands and joint force development *Innovation and Adaptation in War* Matthew A. Tattar, 2025-05-20

An analysis of advances in military technology that illustrates the importance of organizational flexibility in both an attacker's innovations and an opponent's adaptations How important is military innovation in determining outcomes during armed conflict In *Innovation and Adaptation in War* Matthew Tattar questions the conventional wisdom that to succeed military organizations must innovate early and often Because successful methods of warfare are soon widely imitated or countered on

the international stage the advantages of a particular innovation quickly evaporate Therefore Tattar argues large scale innovations at the cost of organizational flexibility and the ability to adapt to an adversary s innovations may not be the optimal path not just because force readiness is vital but also because innovation does not provide as long lasting and decisive an advantage as may have been previously thought Although other scholars have analyzed the sources of military innovation Tattar is the first to focus on the relationship between innovation and specific military outcomes Looking at several different types of military organizations and many different types of battles he draws on theoretical works in depth historical research and case studies and finds that the initial advantages that are generated by innovation disappear far too rapidly in wartime for militaries to depend on them for victory Furthermore as Tattar demonstrates emphasizing innovation in defense planning at the expense of organizational flexibility can have significant negative consequences The decisive factor in successful adaptation more often than not is a well positioned and flexible organization Providing both a new framework for studying military innovation and a comprehensive review of the current literature in this field Innovation and Adaptation in War offers crucial policymaking insights into when and under what circumstances militaries should innovate and adapt

Macro cognition Metrics and Scenarios Janet E. Miller, 2018-09-03 Macro cognition Metrics and Scenarios Design and Evaluation for Real World Teams translates advances by scientific leaders in the relatively new area of macro cognition into a format that will support immediate use by members of the software testing and evaluation community for large scale systems as well as trainers of real world teams Macro cognition is defined as how activity in real world teams is adapted to the complex demands of a setting with high consequences for failure The primary distinction between macro cognition and prior research is that the primary unit for measurement is a real world team coordinating their activity rather than individuals processing information the predominant model for cognition for decades This book provides an overview of the theoretical foundations of macro cognition describes a set of exciting new macro cognitive metrics and provides guidance on using the metrics in the context of different approaches to evaluation and measurement of real world teams

Project Management Adedeji B. Badiru, 2019-05-29 The goal of the new edition is to continue with a systems view of the world For a more robust and worldwide market dissemination the new edition has changed to a reference book The project systems approach to project management is needed in executing projects across countries and across cultures which is a crucial requirement in today s globalized and intertwined economics The book uses ample graphical representations to clarify the concepts and techniques presented The case examples help to reinforce the topics covered Several illustrative examples and practice exercises are included Each chapter is updated and new chapters include Project Simulation and Project Templates A new chapter on managing complex projects in an age of artificial intelligence adds a unique value to the book Features Highlights contemporary best practices of project management Uses a systems framework to integrate quantitative and qualitative tools Offers illustrative examples and practice exercises Covers project schedule performance

appraisal techniques Discusses the knowledge areas contained in the Project Management Book of Knowledge PMBOK Presents software applications for project management as well as case examples Air University Press publications 2004 Air University (U.S.). Press,2004 *Airpower Advantage* Diane Therese Putney,2004 American air power is a dominant force in today s world Its ascendancy evolving in the half century since the end of World War II became evident during the first Gulf War Although a great deal has been written about military operations in Desert Shield and Desert Storm this deeply researched volume by Dr Diane Putney probes the little known story of how the Gulf War air campaign plan came to fruition Based on archival documentation and interviews with USAF planners this work takes the reader into the planning cells where the difficult work of building an air campaign plan was accomplished on an around the clock basis The tension among air planners is palpable as Dr Putney traces the incremental progress and friction along the way The author places the complexities of the planning process within the context of coalition objectives All the major players are here President George H W Bush General H Norman Schwarzkopf General Colin Powell General Chuck Horner and Secretary of Defense Richard Cheney The air planning process generated much debate and friction but resulted in great success a 43 day conflict with minimum casualties Dr Putney s rendering of this behind the scenes evolution of the planning process in its complexity and even suspense provides a fascinating window into how wars are planned and fought today and what might be the implications for the future C R Anderegg Director of Air Force History **Air University Library Index to Military Periodicals** ,1996 **AU Press Publications** Air University (U.S.). Press,2004 **Professional Journal of the United States Army** ,1995-07 **Military Review** ,1995 **Quarterly Review of Military Literature** ,1995

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