

STRATEGIC

APPRAISAL

The Changing Role of Information in Warfare

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Strategic Appraisal The Changing Role Of Information In Warfare

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Strategic Appraisal The Changing Role Of Information In Warfare:

Strategic Appraisal Zalmai Khalilzad, Tom LaTourrette, David E. Mosher, Lois M. Davis, David R. Howell, Barbara Raymond, 1999-05-11 Advances in information technology have led us to rely on easy communication and readily available information both in our personal lives and in the life of our nation For the most part we have rightly welcomed these changes But information that is readily available is available to friend and foe alike a system that relies on communication can become useless if its ability to communicate is interfered with or destroyed Because this reliance is so general attacks on the information infrastructure can have widespread effects both for the military and for society And such attacks can come from a variety of sources some difficult or impossible to identify This the third volume in the Strategic Appraisal series draws on the expertise of researchers from across RAND to explore the opportunities and vulnerabilities inherent in the increasing reliance on information technology looking both at its usefulness to the warrior and the need to protect its usefulness for everyone The Strategic Appraisal series is intended to review for a broad audience issues bearing on national security and defense planning

Strategic Appraisal 1996, 1996 The Western victory in the Cold War has left the United States as the world's preeminent power At the moment it faces no global rival and no significant hostile alliance that might threaten its security or vital interests Despite a decline in its relative economic power the United States still has the world's largest economy Moreover the United States possesses military predominance and American political and economic ideas have broad global appeal Almost all of the economically capable nations are our allies In modern times no single nation has held a position as preeminent as that of the United States today At the same time with the end of the Cold War there has been an increase in disorder as a result of the rise in ethnic nationalism and the fragmentation of several states Among the Cold War allies there is intense economic competition and managing alliance relations has become more difficult in the absence of a powerful common enemy Several powers are opposed to the new international configuration Some of these are rogue states such as North Korea Iran and Iraq But some major powers such as Russia and China are also dissatisfied with the status quo

The Nature of War in the Information Age David J. Lonsdale, 2004-06 Much of today's Revolution in Military Affairs (RMA) literature subscribes to the idea that the information age will witness a transformation in the very nature of war In this book David Lonsdale puts that notion to the test

Strategy for Chaos Colin Gray, 2004-08-02 In this volume Professor Colin Gray develops and applies the theory and scholarship on the allegedly historical practice of the Revolution in Military Affairs (RMA) in order to improve our comprehension of how and why strategy works The author explores the RMA hypothesis both theoretically and historically The book argues that the conduct of an RMA has to be examined as a form of strategic behaviour which means that of necessity it must work as strategy works The great RMA debate of the 1990s is reviewed empathetically though sceptically by the author with every major school of thought allowed its day in court The author presents three historical RMAs as case studies for his argument those arguably revealed in the wars of the French Revolution

and Napoleon in World War I and in the nuclear age The focus of his analysis is how these grand RMAs functioned strategically The conclusions that he draws from these empirical exercises are then applied to help us understand what indeed is and what is not happening with the much vaunted information technology led RMA of today **Operational Art** Milan Vego, 2025-03-18 This book describes and explains the theory of operational art an intermediate field of theory and practice between tactics and strategy This book is one of relatively few works in the English language on the theory of operational art It deals predominantly with the theory of operational art as applied to preparing planning and conducting a high intensity conventional war In contrast to other works the book is written in broad terms rather than focusing on national military culture and experience which allows more flexibility in adjusting to new evidence The book explains the theory of operational art in all three physical dimensions land sea and air space and describes analyses various aspects of operational art in general terms using historical examples to facilitate the understanding of the theory The case studies focus on examples of major campaigns and operations in both the more recent and distant history of warfare including the current Ukraine Russia war This book will be of much interest to students of strategic studies military history defense studies and International Relations as well as military professionals Science, Strategy and War Frans P.B. Osinga, 2007-01-24 John Boyd is often known exclusively for the so called OODA loop model he developed This model refers to a decision making process and to the idea that military victory goes to the side that can complete the cycle from observation to action the fastest This book aims to redress this state of affairs and re examines John Boyd s original contribution to strategic theory By highlighting diverse sources that shaped Boyd s thinking and by offering a comprehensive overview of Boyd s work this volume demonstrates that the common interpretation of the meaning of Boyd s OODA loop concept is incomplete It also shows that Boyd s work is much more comprehensive richer and deeper than is generally thought With his ideas featuring in the literature on Network Centric Warfare a key element of the US and NATO s so called military transformation programmes as well as in the debate on Fourth Generation Warfare Boyd continues to exert a strong influence on Western military thinking Dr Osinga demonstrates how Boyd s work can help us to understand the new strategic threats in the post 9 11 world and establishes why John Boyd should be regarded as one of the most important post modern strategic theorists

Operational Warfare at Sea Milan Vego, 2008-10-27 This new volume provides a comprehensive analysis of both the theory and practice of operational warfare at sea The book is unique in using diverse sources and examples to present a comprehensive topical description and analysis of the key components of operational warfare at sea today It opens with a survey of the emergence of operational warfare at sea since the end of the Napoleonic Wars going on to describe and analyze the objectives of naval warfare at the operational level and methods of employment of naval forces for accomplishing these objectives The book explains the specifics of operational functions in a maritime theatre discusses the personality traits and professional education required for successful naval operational commanders and explores naval operational command and

control in both peacetime and war closing with predictions for the future of operational warfare at sea This book serves as a primer of how to plan prepare and execute major naval operations and campaigns for naval commanders and their staffs but will also be of interest to advanced students of naval history strategic studies and military history in general The 2019 Yearbook of the Digital Ethics Lab Christopher Burr, Silvia Milano, 2020-01-28 This edited volume presents an overview of cutting edge research areas within digital ethics as defined by the Digital Ethics Lab of the University of Oxford It identifies new challenges and opportunities of influence in setting the research agenda in the field The yearbook presents research on the following topics conceptual metaphor theory cybersecurity governance cyber conflicts anthropomorphism in AI digital technologies for mental healthcare data ethics in the asylum process AI's legitimacy and democratic deficit digital afterlife industry automatic prayer bots foresight analysis and the future of AI This volume appeals to students researchers and professionals *Globalization and National Security* Jonathan Kirshner, 2013-01-11 In this book top scholars of international relations assess the consequences of globalization for national security identifying three distinct processes of globalization the intensification of economic exchange the flow of information and marketization the expansion of the set of social relations governed by market forces exploring how they can affect the capacity and power of states as well as conflict within and among them Though much has been written on the topics of globalization and national security there has been relatively little in the way of a systematic examination of the impact that globalization has on a state's national security These essays deal with how stateless actors such as terrorists utilize the benefits of globalization changing the nature of the security game Failure to account for the influence of globalization will make it increasingly difficult to understand changes in the balance of power prospects for war and strategic choices embraced by states **Reimagining War in the 21st Century** Manabrata Guha, 2010-09-13 This book interrogates the philosophical backdrop of Clausewitzian notions of war and asks whether modern network centric militaries can still be said to serve the political In light of the emerging theories and doctrines of Network Centric War NCW this book traces the philosophical backdrop against which the more common theorizations of war and its conduct take place Tracing the historical and philosophical roots of modern war from the 17th Century through to the present day this book reveals that far from paralyzing the project of re-problematising war the emergence of NCW affords us an opportunity to rethink war in new and philosophically challenging ways This book will be of much interest to students of critical security studies social theory war studies and political theory IR Manabrata Guha is Assistant Professor ISSSP at the National Institute of Advanced Studies Bangalore India *US Military Innovation since the Cold War* Harvey Sapolsky, Benjamin Friedman, Brendan Green, 2009-04-28 This book explains how the US military reacted to the Revolution in Military Affairs RMA and failed to innovate its organization or doctrine to match the technological breakthroughs it brought about Many called for the transformation of the US military in the years after the end of the Cold War seeking the changes in organization and doctrine that would complete the RMA innovation and a commitment to counter insurgency peace keeping

and nation building missions This volume describes the origins uses and limits of the RMA technologies examines how each of the five US armed services categorising the Special Operations as a separate service made their adjustments both to the technologies and the use of force and how the role of the civilian officials and the defense industry altered in this process of change and avoidance of change The book examines the internal politics of the services as well as civil military relations to identify the external pressures on the services for significant change in their doctrine and weapons Many have noted the failure of the services to innovate in what can be called the Second Inter war Period the years after the Cold War This book offers explanations for this failure and arguments about the possible range and desirability of military innovation in the post Cold war era This book will be of great interest to students of strategic studies US defence politics military studies and US politics Harvey M Sapolsky is Professor of Public Policy and Organization in the Department of Political Science at MIT and former Director of the Security Studies Program Benjamin H Friedman is a Research Fellow in Defense and Homeland Security Studies at the Cato Institute and a Ph D Candidate in Political Science at MIT Brendan Green is a Ph D Candidate in Political Science at MIT and an affiliate of the Security Studies Program

Carnage and Connectivity David Betz, 2015-11-15 Charts the evolution of military power in the digital age from conventional warfare to cyberwar and examines its implications *Global Trends and Transformations in Culture, Business, and Technology* Hamid Yeganeh, 2022-06-20 This book offers a concise and analytical portrait of the contemporary world The author encompasses concepts and theories from multiple disciplines notably sociology anthropology business and economics to examine major global trends and transformations of the modern world their underlying causes and their consequences The text examines global demographic trends globalization culture emerging markets global security environmental degradation large corporations and economic inequality The author also analyzes major transformations in healthcare food the sharing economy Fourth Industrial Revolution consumption work and organization innovation and various technologies in areas such as automation robotics connectivity quantum computing and new materials This book is a valuable reference for business leaders managers students and all those who are passionate about understanding the rapidly changing contemporary world

Indian and American Perspectives on Technological Developments in the Maritime Domain and Their Strategic Implications in the Indian Ocean Region Vice Admiral Pradeep Kaushiva, Commander Kamlesh K Agnihotri, 2013-04-15 The maritime domain hosting the highways of global prosperity through trade industrial raw material and energy links rates high in its potential for conflict As the global pendulum of economic vibrancy swings eastwards the Indian Ocean Region IOR has been receiving increasing attention from all actors state as well as non state ones and now presents itself in sharp focus as one of the volatile seascapes on this earth The navies operating in the region will therefore need to depend on high technology and associated doctrines and procedures so as to effectively deal with the wide spectrum of challenges therein It will also become incumbent upon such littoral states as can afford the high cost of technology to

catch up so as to maintain their relevance in the great game being played out in their very own backyard The United States as a leader in inventing and exploiting technology sets its own benchmarks in internalization of advanced technologies to undertake maritime missions at and from the sea in support of its military operations ashore China on the other hand has been striving towards achieving asymmetric war fighting capabilities supported by other developing technologies as well as core capabilities like the Beidou position fixing system which would be central to network centric operations including missile guidance systems As the IOR increasingly transforms into an arena of extra regional power play the implications of technologically enabled confrontations and their impact on resident states are poised to weigh in on a scale never imagined before There is thus a greater need for India to gain in depth knowledge of and develop a perspective on advanced technology sensors weapons supporting infrastructures doctrines and futuristic concepts in the maritime domain and their potential as strategic game changers in the IOR This book aims to foster greater understanding of the challenges facing the IOR and also look at how the technological advances in the maritime domain may possibly handle such challenges It should provide useful resource material to those investigating the impact of technology on meeting the maritime challenges in the IOR

The Arc of War Jack S. Levy, William R. Thompson, 2011-08-26 In this far reaching exploration of the evolution of warfare in human history Jack S Levy and William R Thompson provide insight into the perennial questions of why and how humans fight Beginning with the origins of warfare among foraging groups The Arc of War draws on a wealth of empirical data to enhance our understanding of how war began and how it has changed over time The authors point to the complex interaction of political economy political and military organization military technology and the threat environment all of which create changing incentives for states and other actors They conclude that those actors that adapt survive and those that do not are eliminated In modern times warfare between major powers has become exceedingly costly and therefore quite rare while lesser powers are too weak to fight sustained and decisive wars or to prevent internal rebellions

Conceptually innovative and historically sweeping The Arc of War represents a significant contribution to the existing literature on warfare

Counterterrorism Frank Shanty, 2012-08-17 This two volume set examines modern nation state legislative diplomatic military and non military attempts to combat terrorism within and outside state borders The articles which comprise this comprehensive reference work address counterterrorism efforts employed by the international community prior to and following the events of September 11 2001 Global terrorism in the 21st century threatens the foundations of secular democracies and directly challenges global security thereby raising new and critical issues that transcend national borders This two volume reference carefully examines threats such as Weapons of Mass Destruction WMD terrorism agro environmental terrorism and energy related terrorism and discusses technologies and strategies such as the use of biometrics data mining information systems psychological profiling and terrorists rehabilitation efforts to mitigate these threats Counterterrorism From the Cold War to the War on Terror provides an easy to read discussion of some of the

principal issues involved in combating contemporary terrorism Information is presented in non technical language making it appealing to the general reader as well as a solid reference for undergraduate college students and researchers Following each article are references to other articles of interest and a comprehensive index facilitates access to specific subject material The second volume includes a compilation of significant national and international treaties laws conventions and protocols that have been implemented in an attempt to counter these ongoing threats to domestic and international security

The Iraq Wars and America's Military Revolution Keith L. Shimko,2010-04-30 This book is a comprehensive study of the Iraq Wars in the context of the revolution in military affairs debate The Armies of East Asia Dennis Van Vranken Hickey,2001 The end of the 1980s and the beginning of the 1990s have been a time of great change for academic libraries and librarians Rapid developments in technology have revolutionized the libraries means and mission while declining budgets have adversely impacted the ability of librarians to carry out their roles The literature of academic librarianship today reflects these changes and points to the direction in which academic libraries are headed This book is a comprehensive guide to book chapters and articles written on academic librarianship between 1990 and 1993 Entries for nearly 1 700 works are grouped in six topical chapters for ease of use Each entry includes an informative annotation that summarizes the key points made by the authors the major findings of research projects and the names and locations of libraries with innovative programs Extensive author article book journal title and subject indexes conclude the work The volume is a useful tool for locating specific information on various topics and it is a forecast of the future of academic libraries **The News Media At War** Tarek Cherkaoui,2017-01-30 Tarek Cherkaoui reveals how geo political and ideological legacies of the past which divide the world into a dichotomy of us against them play a dominant role in reinforcing the ensuing polarisation of our media

Joint Operational Warfare Milan N. Vego,2009 Smallholder farmers and pastoralists fulfil an invaluable yet undervalued role in conserving biodiversity They act as guardians of locally adapted livestock breeds that can make use of even marginal environments under tough climatic conditions and therefore are a crucial resource for food security But in addition by sustaining animals on natural vegetation and as part of local ecosystems these communities also make a significant contribution to the conservation of wild biodiversity and of cultural landscapes This publication provides a glimpse into the often intricate knowledge systems that pastoralists and smallholder farmers have developed for the management of their breeds in specific production systems and it also describes the multitude of threats and challenges these often marginalized communities have to cope with

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