

Contemporary Military Innovation

Contemporary Military Innovation Contemporary Military Innovation Winning the Next War Technological Change and the Future of Warfare Modern Military Technology in Counterinsurgency Warfare The Culture of Military Innovation Military Technology, Armaments Dynamics and Disarmament Science and Technology in Contemporary War Twenty-First Century Military Innovation Diplomacy, War, and Technology Since 1830 Innovation and the Arms Race Military Technological Innovation and Stability in a Changing World Modernist Avant-Garde Aesthetics and Contemporary Military Technology Modern Aspects of the Laws of Naval Warfare and Maritime Neutrality The Luftwaffe Neoclassical Realism and Defence Reform in Post-Cold War Europe Recent Themes in Military History Advanced Technology and Future Warfare After Clausewitz Military Innovation in Small States Dima Adamsky Dima Adamsky Stephen Peter Rosen Michael E. O'Hanlon Victor Shiu Chiang Cheng Dima Adamsky Hans Günter Brauch G. I. Pokrovsky Marcus Schulzke Maurice Pearton Matthew Evangelista Wim Smit John Phillips George Politakis James S. Corum Tom Dyson Donald A. Yerxa Zeev Bonen Antulio J. Echevarria (II) Michael Raska

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this book explores contemporary military innovation with a particular focus on the balance between anticipation and adaption the volume examines contemporary military thought and the doctrine that evolved around the thesis of a transformation in the character of war known as the information technology revolution in military affairs it rma this innovation served as an intellectual foundation for the us defence transformation from the 1990s onwards since the mid 1990s professional ideas generated within the american defence milieu have been further disseminated to military communities across the globe with huge impact on the conduct of warfare with chapters written by leading scholars in this field this work sheds light on rmas in general and the

it rma in the us in particular the authors analyse how military practice and doctrines were developed on the basis of the it rma ideas how they were disseminated and the implications of them in several countries and conflicts around the world this book will be of much interest to students of strategic studies defence studies war and technology and security studies in general

rosen argues that armies and navies are not forever doomed to fight the last war rather they are able to respond to shifts in the international strategic situation

in light of the spectacular performance of american high technology weapons in the 1991 persian gulf war as well as the phenomenal pace of innovation in the modern computer industry many defense analysts have posited that we are on the threshold of a revolution in military affairs rma the issue has more than semantic importance many rma proponents have begun to argue for major changes in pentagon budgetary priorities and even in american foreign policy more generally to free up resources to pursue a transformed u s military and to make sure that other countries do not take advantage of the purported rma before we do this book takes a more measured perspective beginning with a survey of various types of defense technologies it argues that while important developments are indeed under way most impressively in electronics and computer systems the overall thrust of contemporary military innovation is probably not of a revolutionary magnitude some reorientation of u s defense dollars is appropriate largely to improve homeland defense and to take advantage of the promise of modern electronics systems and precision guided munitions but radical shifts in u s security policy and pentagon budget priorities appear unwarranted especially if those shifts would come at the expense of american military engagement in overseas defense missions from korea to iraq to bosnia

this book studies the impact of cultural factors on the course of military innovations one would expect that countries accustomed to similar technologies would undergo analogous changes in their perception of and approach to warfare however the intellectual history of the revolution in military affairs rma in russia the us and israel indicates the opposite the us developed technology and weaponry for about a decade without reconceptualizing the existing paradigm about the nature of warfare soviet new theory of victory represented a conceptualization which chronologically preceded technological procurement israel was the first to utilize the weaponry on the battlefield but was the last to develop a conceptual framework that acknowledged its revolutionary implications utilizing primary sources that had previously been completely inaccessible and borrowing methods of analysis from political science history anthropology and cognitive psychology this book suggests a cultural explanation for this puzzling transformation in warfare the culture of military innovation offers a systematic thorough and unique analytical approach that may well be applicable in other perplexing strategic situations though framed in the context of specific historical experience the insights of this book reveal important implications related to conventional subconventional and nonconventional security issues it is therefore an ideal reference work for practitioners scholars teachers and students of security studies

this book offers theoretical analysis on the context and on the dual function of military technology as well as case studies on the third generation of nuclear weapons on the biological

weapons convention review conference on the driving forces of chemical armament and on the military use of nuclear energy as a possible propellant for bombers and in outer space

contemporary war is as much a quest for decisive technological organizational and doctrinal superiority before the fighting starts as it is an effort to destroy enemy militaries during battle armed forces that are not actively fighting are instead actively reengineering themselves for success in the next fight and imagining what that next fight may look like twenty first century military innovation outlines the most theoretically important themes in contemporary warfare especially as these appear in distinctive innovations that signal changes in states warfighting capacities and their political goals marcus schulzke examines eight case studies that illustrate the overall direction of military innovation and important underlying themes he devotes three chapters to new weapons technologies drones cyberweapons and nonlethal weapons two chapters to changes in the composition of state military forces private military contractors and special operations forces and three chapters to strategic and tactical changes targeted killing population centric counterinsurgency and degradation each case study includes an accessible introduction to the topic area an overview of the ongoing scholarly debates surrounding that topic and the most important theoretical implications this book can be read as an overview of the themes that run throughout innovations of varying types or it can be used by readers who are interested in particular topic areas

no other book combines so much of modern military history with so rich an exploration of related factors in industry finance education and technology as well as statecraft combining strands of history from all these areas pearton makes an unusually complete and cogent case for the breakdown of traditional distinctions between the civil and the military and even between war and peace this is an excellent work of military and economic history russell f weigley author of the american way of war pearton s historical approach adds needed depth and perspective to many contemporary discussions of the arms problem this is an illuminating and incisive inquiry into a phenomenon of unquestioned importance international affairs

evangelista provides a new framework for analyzing u s and soviet innovations in weapons technology in america development is generated from the bottom up with scientists providing the initial impetus soviet weapons innovation occurs from the top down as soviet leaders react to external forces particularly american initiatives with current weapons programs such as the strategic defense initiative the author sees opportunities for arms control the united states must recognize that technological innovation is no guarantee of security the soviet union must decide not to match american innovation isbn 0 8014 2165 9 32 95

examines the tensions between the aims of military technology and modernist aesthetics in relation to perception a basic aim of visual technologies is to collapse perception with the perceived object modernist aesthetics shows that an irreducible element of time and space always remains military technology tends towards the impossible goal of eliminating this dimension modernist aesthetics exploits it placing military operations alongside modernist aesthetics reveals the civic sphere suspended between two incompatible desires reading the art

and writing of djuna barnes joseph conrad marcel duchamp james joyce mina loy stephane mallarme the italian futurists and h g wells against apache attack helicopters network centric warfare satellites decoys sirens and radios this book addresses issues such as targeting surveillance visibility and the invisible broadcast and media the military body diasporas geopolitics and beauty key features an important contribution to the increasingly important interdisciplinary field of war studies original and groundbreaking readings of modernist art literature music poetics and aesthetics a valuable and provocative new reading of the avant garde contributes to a new understanding of both military technics and modernist aesthetics

first published in 1998 routledge is an imprint of taylor francis an informa company

this study provides an appraisal of germany s air forces from the post world war i era through the early stages of world war ii the author demolishes several myths surrounding the luftwaffe including the belief that they had no ideas beyond the support of ground forces

includes bibliographical references p 287 314 index

this book offers an inviting survey of recent developments in military studies from leading voices in the field deemed the new york review of books for history historical speaking has emerged as one of the most unusual historical publications in recent years actively seeking out contributions from a pantheon of leading voices in historical discourse from both inside and outside academia recent themes in military history represents some of the best writing on military history to appear in historically speaking in the past five years using multiple formats forums interviews and individual essays this collection provides contrasting views on such topics in military history as the existence and function of military revolutions in the past and present the experience of soldiering and combat the particularly violent and gruesome nature of twentieth century warfare and projections of nature of future wars the ebb and flow of discourse between contributors also illustrates how the study of history is an ongoing conversation wherein discovery and debate lead to deeper understanding and development of fresh opportunities for further inquiry the contributors are andrew j bacevich eric bergerud jeremy black max boot jeffrey clarke antulio j echevarria ii niall ferguson colin s gray t x hammes victor davis hanson max hastings richard holmes peter paret geoffrey parker and dennis showalter

but echevarria disputes this traditional view and convincingly shows that these theorists boguslawski goltz schlieffen hoening and their american and european counterparts were not the architects of outmoded theories in fact they duly appreciated the implications of the vast advances in modern weaponry as well as in transportation and communications and set about finding solutions that would restore offensive maneuver to the battlefield book jacket

this book provides a comprehensive assessment of the global diffusion of the revolution in military affairs rma and its impact on military innovation trajectories in small states although the revolution in military affairs rma concept has enjoyed significant academic attention the varying paths and patterns of military innovation in divergent strategic settings have been overlooked this book seeks to rectify this gap by addressing the broad puzzle of how the global diffusion of

rma oriented military innovation the process of international transmission communication and interaction of rma related military concepts organizations and technologies has shaped the paths patterns and scope of military innovation of selected small states in a reverse mode how have selected small states influenced the conceptualization and transmission of the rma theory processes and debate using israel singapore and south korea as case studies this book argues that rma oriented military innovation paths in small states indicate predominantly evolutionary trajectory albeit with a varying patterns resulting from the confluence of three sets of variables 1 the level of strategic organizational and operational adaptability in responding to shifts in the geostrategic and regional security environment 2 the ability to identify anticipate exploit and sustain niche military innovation select conceptual organizational and technological innovation intended to enhance the military s ability to prepare for fight and win wars and 3 strategic culture while the book represents relevant empirical cases for testing the validity of the rma diffusion hypotheses from a policy oriented perspective this book argues that these case studies offer lessons learned in coping with the security and defence management challenges posed by military innovation in general this book will be of much interest for students of military innovation strategic studies defence studies asian politics middle eastern politics and security studies in general

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