

# Contemporary Military Innovation

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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

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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

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

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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

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

the first comprehensive english language history of the japanese imperial army based largely on japanese language sources traces the origins evolution and impact of the army as an engine of japan s regional and global ambitions and as a catalyst for the militarization of its homeland

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