

# Contemporary Military Innovation

Military Innovation in the Interwar Period The Culture of Military Innovation Winning the Next War The Diffusion of Military Technology and Ideas Military Innovation in the Interwar Period Contemporary Military Innovation Military Innovation in Small States Uncovering Ways of War US Military Innovation since the Cold War Defence Innovation and the 4th Industrial Revolution Twenty-First Century Military Innovation Weapon of Choice The Origins of Victory Forging China's Military Might The Diffusion of Military Power The Fourth Industrial Revolution and Military-Civil Fusion Predicting Military Innovation Predicting Military Innovation US Intervention Policy and Army Innovation The Art of Military Innovation Williamson R. Murray Dmitry (Dima) Adamsky Stephen Peter Rosen Emily O. Goldman Williamson Murray Dima Adamsky Michael Raska Thomas G. Mahnken Harvey Sapolksy Michael Raska Marcus Schulzke Matthew C. Ford Andrew F. Krepinevich Tai Ming Cheung Michael C. Horowitz Yoram Evron Jeffrey Alan Isaacson Richard Lock-Pullan Edward N. Luttwak

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in 1914 the armies and navies that faced each other were alike right down to the strengths of their companies and battalions and the designs of their battleships and cruisers differences were of degree rather than essence during the interwar period however the armed forces grew increasingly asymmetrical developing different approaches to the same problems this study of major military innovations in the 1920s and 1930s explores differences in exploitation

by the seven major military powers the comparative essays investigate how and why innovation occurred or did not occur and explain much of the strategic and operative performance of the axis and allies in world war ii the essays focus on several instances of how military services developed new technology and weapons and incorporated them into their doctrine organization and styles of operations

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

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

antologi sikkerhedspolitiske forskere giver deres vurdering af følgerne af informationsalderens opgør med hidtidig kendt våbenteknologi og doktriner i forbindelse med den globale spredning af know how på området

a study of major military innovations in the 1920s and 1930s first published in 1996

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

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

thomas g mahnken sheds light on the shadowy world of u s intelligence gathering tracing how america learned of military developments in japan germany and great britain in the period between the two world wars

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

this book examines the implications of disruptive technologies of the fourth industrial revolution 4ir on military innovation and the use of force it provides an in depth understanding of how both large and small militaries are seeking to leverage 4ir emerging technologies and the effects such technologies may have on future conflicts the 4th industrial revolution 4ir the confluence of disruptive changes brought by emerging technologies such as artificial intelligence robotics nanotechnologies and autonomous systems has a profound impact on the direction and character of military innovation and use of force the core themes in this edited volume reflect on the position of emerging technologies in the context of previous revolutions in military affairs compare how large resource rich states us china russia and small resource

limited states israel sweden norway are adopting and integrating novel technologies and explore the difference between various innovation and adaptation models the book also examines the operational implications of emerging technologies in potential flashpoints such as the south china sea and the baltic sea written by a group of international scholars this book uncovers the varying air defence innovation trajectories enablers and constraints in pursuing military technological advantages that will shape the character of future conflicts the chapters in this book were originally published as a special issue of the journal of strategic studies

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

exposes the mechanics of power across the military industrial complex from battlefield to back office

how the character of war is changing and how militaries can successfully adapt to meet the challenge this book by military strategist andrew f krepinevich jr is the definitive take on the race for military dominance in the twenty first century it shows how militaries that successfully pursue disruptive innovation can gain a major advantage over their rivals while those that fail to do so risk exposing their countries to great danger the precision warfare revolution introduced by the u s military in the first gulf war found the united

states enjoying a near monopoly in this form of warfare for several decades but now other powers have these capabilities the u s military also confronts an emerging military revolution driven by advances across a wide range of technologies from artificial intelligence and synthetic biology to quantum computing and additive manufacturing to stay competitive the u s military must pursue disruptive innovation in a race with other militaries to exploit war s changing character clues exist as to the winner s identity they are revealed by militaries that went beyond the bounds of mere innovation to overturn the existing forms of warfare changing the course of history and the fate of nations through exploring their experiences krepinevich shows how the u s military can win the race to identify and exploit the next big thing in warfare

his collection of nine essays offers a comprehensive and insightful assessment of the chinese defense science and technology s t pacific affairs among the most important issues in international security today are the nature and the global implications of china s emergence as a world class defense technology power since the beginning of the twenty first century the chinese defense industry has reinvented itself by emphasizing technological innovation and technology this reinvention and its potential effects both positive and negative are attracting global scrutiny drawing insights from a range of disciplines including history social science business and strategic studies tai ming cheung and the contributors to forging china s military might develop an analytical framework to evaluate the nature dimensions and spectrum of chinese innovation in the military and broader defense spheres forging china s military might provides an overview of the current state of the chinese defense industry and then focuses on subjects critical to understanding short and long term developments including the relationship among defense contractors regulators and end users civil military integration china s defense innovation system and china s place in the global defense economy case studies look in detail at the chinese space and missile industry constitutes high quality cutting edge research on china s defense industries it should enjoy broad appeal among academics policy makers security analysts and business people in countries around the world andrew scobell rand corporation forging china s military might belongs in any political science shelf interested in china s issues and international security and considers the nature of china s emergence as a world power midwest book review

the diffusion of military power examines how the financial and organizational challenges of adopting new methods of fighting wars can influence the international balance of power michael horowitz argues that a state or actor wishing to adopt a military innovation must possess both the financial

resources to buy or build the technology and the internal organizational capacity to accommodate any necessary changes in recruiting training or operations how countries react to new innovations and to other actors that do or don't adopt them has profound implications for the global order and the likelihood of war horowitz looks at some of the most important military innovations throughout history including the advent of the all big gun steel battleship the development of aircraft carriers and nuclear weapons and the use of suicide terror by nonstate actors he shows how expensive innovations can favor wealthier more powerful countries but also how those same states often stumble when facing organizationally complicated innovations innovations requiring major upheavals in doctrine and organization can disadvantage the wealthiest states due to their bureaucratic inflexibility and weight the balance of power toward smaller and more nimble actors making conflict more likely this book provides vital insights into military innovations and their impact on u s foreign policy warfare and the distribution of power in the international system

examines the global interaction between military civil fusion and the fourth industrial revolution and how it affects military innovation

although military technology is increasingly available and affordable not all states have the capacity to improve military effectiveness by acquiring hardware indeed integrative deficiencies such as inflexible command structures inappropriate doctrine and tactics improper training insufficient support are quite common in the developing world for many states as a result improving military effectiveness requires some level of innovation e g reorganizing command structures introducing new doctrine and tactics modifying training techniques and improving support given that improved military effectiveness generally requires innovation what are the key indicators that intelligence analysts can use to predict whether a state is likely to achieve military innovation the literature reveals four dominant perspectives that attempt to explain military innovation structural realist neorealist societal organizational theory and cultural both strategic culture and organizational culture drawing on these perspectives we deduce hypotheses on military innovation that are tested in three case studies the israeli defense forces 1948 1982 the north vietnamese army 1965 1970 and the chaco war 1932 1935

this annotated briefing documents a research effort aimed at understanding and predicting how militaries may improve their battlefield effectiveness

this book examines how the us army rebuilt itself after the vietnam war and how this has effected us intervention policy after the cold war

why is israel s relatively small and low budget military also the world s most innovative technologically and logistically edward luttwak and eitan shamir look to the idf s unique structure integrating army air force and navy in one service under an officer class constantly refreshed by short tenures the idf is built for agility and change

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