

FAST TANKS **AND HEAVY BOMBERS**



INNOVATION IN THE U.S. ARMY

1917-1945

DAVID E. JOHNSON

Fast Tanks And Heavy Bombers Innovation In The Us Army 1917 1945

John Buckley



Fast Tanks And Heavy Bombers Innovation In The Us Army 1917 1945:

Fast Tanks and Heavy Bombers David E. Johnson, 2003-03-28 Johnson examines the U S Army s innovations for both armor and aviation between the world wars offering valuable insights for future military innovation

Fast Tanks and Heavy Bombers David E. Johnson, 1998

The French Army's Tank Force and Armoured Warfare in the Great War Tim Gale, 2016-03-16 Recent scholarship has challenged the assumption that military commanders during the First World War were inflexible backward looking and unwilling to exploit new technologies Instead a very different picture is now emerging of armies desperately looking to a wide range of often untested and immature scientific and technological innovations to help break the deadlock of the Western Front Nowhere is this better illustrated than in the development of tank warfare which both the British and the French hoped would give them a decisive edge in their offensives of 1917 and 1918 Whilst the British efforts to develop armoured warfare have been well chronicled there has been no academic study in English on the French tank force the Artillerie Sp ciale during the Great War As such this book provides a welcome new perspective on an important but much misunderstood area of the war Such was the scale of the French tanks failure in their first engagement in 1917 it was rumoured that the Artillerie Sp ciale was in danger of being disbanded yet by the end of the war it was the world s largest and most technologically advanced tank force This work examines this important facet of the French army s performance in the First World War arguing that the AS fought the war in as intelligent and sensible a manner as was possible given the immature state of the technology available No amount of sound tank doctrine could compensate for the fragility of the material for the paucity of battlefield communication equipment and for the lack of tank infantry training opportunities Only by 1918 was the French army equipped with enough reliable tanks as well as aircraft and heavy artillery to begin to exercise a mastery of the new form of combined arms warfare The successful French armoured effort outlined in this study including a listing of all the combat engagements of the French tank service in the Great War highlights a level of military effectiveness within

Selling Schweinfurt Brian Vlaun, 2019-10-15 A common theme of airpower histories is that the Combined Bomber Offensive was the proving ground for a post war independent air force Whether or not the United States Army Air Forces USAAF could perform to the hype of its interwar doctrine Allied commanders based their rival approaches to victory in Europe on their differing views of independent airpower However there is an essential yet overlooked facet to this story commanders convictions alone could not hold sway within the War Department much less at the politically and bureaucratically charged meetings of the Combined Chiefs of Staff The air commanders pressed their staffs for decision quality assessments and photographic evidence to sell their arguments and project their progress They needed informed targeting plans and objective post raid reports as well as an air intelligence enterprise to mature all too quickly out of interwar neglect What they received and Brian Vlaun explains was a collision of organizational interests and leadership personalities that shaped Ira Eaker s command of the Eighth Air Force in 1943 the tumultuous air campaign over Germany

and the path of the post war U S Air Force As a result of the author s research through thousands of declassified files *Selling Schweinfurt* examines the relationships between air intelligence organizations and key decision makers His analysis spans from pre war planning and doctrine development through the Eighth Air Force s independent air campaign and culminates with the formation of the United States Strategic Air Forces and its 1944 pre invasion preparations This book concludes that military organizations if left unchecked may adopt symbols and exaggerate claims to justify their own preferences and market their ideas in ways that mask their optimistic assumptions In the case of the air campaign against Germany both the four engine bomber and specialized targets like Schweinfurt s ball bearings served as symbols and powerful marketing tools for the AAF and air intelligence respectively

Cavalry from Hoof to Track Roman Jarymowycz, 2007-12-30 For centuries mounted cavalry dominated the battlefield through shock and mobility Man maintained a symbiotic relationship with the horse which became particularly sacrosanct on the battlefield and even created a new exalted social class These mounted warriors sought to preserve their prestige despite the advent of new technologies threatening to render them obsolete In *Cavalry from Hoof to Track* Roman Jarymowycz traces the evolution of the cavalry from the warhorse to the armored tank and demonstrates how its survival is a history of determined and creative responses to the changing dynamics of modern warfare Ultimately he argues the very concept of cavalry exists as its own state of mind The cavalry and its doctrine are misunderstood and its tactics and operations remain a mystery for many civilians New technology and the increased integration of the armed forces create the illusion that the cavalry no longer exists as a distinct military entity and philosophy Jarymowycz clarifies these misconceptions by offering a comprehensible overview while explaining military terminology and outlining basic cavalry principles The book concludes by suggesting how the cavalry will continue to evolve in response to contemporary third world conflicts perhaps even reverting to its original tactical role of close quarter combat

Information Technology and Military Power Jon R. Lindsay, 2020-07-15 Militaries with state of the art information technology sometimes bog down in confusing conflicts To understand why it is important to understand the micro foundations of military power in the information age and this is exactly what Jon R Lindsay s *Information Technology and Military Power* gives us As Lindsay shows digital systems now mediate almost every effort to gather store display analyze and communicate information in military organizations He highlights how personnel now struggle with their own information systems as much as with the enemy Throughout this foray into networked technology in military operations we see how information practice the ways in which practitioners use technology in actual operations shapes the effectiveness of military performance The quality of information practice depends on the interaction between strategic problems and organizational solutions *Information Technology and Military Power* explores information practice through a series of detailed historical cases and ethnographic studies of military organizations at war Lindsay explains why the US military despite all its technological advantages has struggled for so long in unconventional conflicts against weaker adversaries This same perspective suggests that the US

retains important advantages against advanced competitors like China that are less prepared to cope with the complexity of information systems in wartime Lindsay argues convincingly that a better understanding of how personnel actually use technology can inform the design of command and control improve the net assessment of military power and promote reforms to improve military performance Warfighting problems and technical solutions keep on changing but information practice is always stuck in between *Encyclopedia of War and American Society* Peter Karsten,2006 Publisher description

World War II Michael J. Lyons,David J. Ulbrich,2021-05-30 Fully revised and restructured the sixth edition of World War II A Global History offers students a concise and yet thorough textbook that examines history s bloodiest conflict The chapters alternate between chronological chapters on Europe and Asia Pacific and thematic chapters on innovations home fronts brutal regimes and logistics This textbook includes the following features A lively narrative of facts events people and ideas that incorporates thoughtful analysis New material and restructured content on global factors that affected the causes conduct and consequences of World War II Balanced pace that does not bog readers down in too many details yet gives them sufficient depth and breadth for context Chapters sections and sidebars arranged in ways that can complement lectures and assignments Fifty new photographs that illustrate the human condition and weaponry during World War II Global in focus by blending both geographic and thematic chapters to ensure readers gain a comprehensive understanding of impact of the war worldwide this is the perfect volume for all students of the biggest global conflict of the twentieth century **An Army at Dawn** Rick Atkinson,2007-05-15 WINNER OF THE PULITZER PRIZE AND NEW YORK TIMES BESTSELLER In the first volume of his monumental trilogy about the liberation of Europe in World War II Pulitzer Prize winner Rick Atkinson tells the riveting story of the war in North Africa The liberation of Europe and the destruction of the Third Reich is a story of courage and enduring triumph of calamity and miscalculation In this first volume of the Liberation Trilogy Rick Atkinson shows why no modern reader can understand the ultimate victory of the Allied powers without a grasp of the great drama that unfolded in North Africa in 1942 and 1943 That first year of the Allied war was a pivotal point in American history the moment when the United States began to act like a great power Beginning with the daring amphibious invasion in November 1942 An Army at Dawn follows the American and British armies as they fight the French in Morocco and Algeria and then take on the Germans and Italians in Tunisia Battle by battle an inexperienced and sometimes poorly led army gradually becomes a superb fighting force Central to the tale are the extraordinary but fallible commanders who come to dominate the battlefield Eisenhower Patton Bradley Montgomery and Rommel Brilliantly researched rich with new material and vivid insights Atkinson s narrative provides the definitive history of the war in North Africa **British Armour in the Normandy Campaign** John Buckley,2004-07-22 This book is an innovative study of the Normandy campaign and the perceived failure of British forces there It is essential reading for all students of military history and general readers with an interest in the subject **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

Storming the City Alec Wahlman,2015-10-15 In an increasingly urbanized world urban terrain has become a greater factor in military operations Simultaneously advances in military technology have given military forces sharply increased capabilities The conflict comes from how urban terrain can negate or degrade many of those increased capabilities What happens when advanced weapons are used in a close range urban fight with an abundance of cover *Storming the City* explores these issues by analyzing the performance of the US Army and US Marine Corps in urban combat in four major urban battles of the mid twentieth century Aachen 1944 Manila 1945 Seoul 1950 and Hue 1968 Alec Wahlman assesses each battle using a similar framework of capability categories and separate chapters address urban warfare in American military thought In the four battles across a wide range of conditions American forces were ultimately successful in capturing each city because of two factors transferable competence and battlefield adaptation The preparations US forces made for warfare writ large proved generally applicable to urban warfare Battlefield adaptation a strong suit of American forces filled in where those overall preparations for combat needed fine tuning From World War Two to Vietnam however there was a gradual reduction in tactical performance in the four battles

Beyond Ukraine Tim Sweijs,Jeffrey H. Michaels,2024-05-01 Russia s large scale invasion of Ukraine has sparked a major shift in thinking about the future of war This book offers a comprehensive examination of its impact on visions of conflict

Patton's Way James K Morningstar,2017-06-15 Patton s Way is a unique approach to the legend of General George S Patton Jr and his development and application of modern warfare Rather than a biography Patton s Way argues that popular representations of Patton are built on misconceptions and incomplete understandings about his approach to battle Morningstar addresses the contradiction between the historiographical criticism of Patton s methods and popular appreciation for his successes The author identifies several schools of thought offering explanations yet he notes they all fail to fully comprehend the real Patton The secret to Patton s success was a radical and purposely crafted doctrine developed over several decades The author identifies four core principles in Patton s creed targeting the enemy s morale through shock utilizing highly practiced combined arms mechanized columns relying on mission tactics and flexible command and control and employing multi layered and synthesized intelligence systems to identify enemy capabilities and weak spots These precepts directly contradicted official U S Army doctrine and created misunderstandings that led commanders to truncate Patton s operations

in Tunisia Sicily and France Morningstar details how Patton developed and applied each principle and uses the breakout from Normandy as a case study to illustrate Patton's Way in application This book discusses the death and resurrection of Patton's ideas in the U S Army directly following World War II to the present and comments on the status of Patton's ideas in the Army today On Flexibility Meir Finkel, 2011-02-28 An outstanding work Inculcating adaptability flexibility and responsiveness to surprise is the chief preoccupation of the major armies of the world David Betz Department of War Studies King's College London This book addresses one of the basic questions in military studies How can armies cope effectively with technological and doctrinal surprises ones that leave them vulnerable to new weapons systems and or combat doctrines Author Meir Finkel contends that the current paradigm with its over dependence on intelligence and an all out effort to predict the nature of the future battlefield and the enemy's capabilities generally doesn't work Based on historical case analysis of successful under fire recovery and failure to recover he identifies the variables that have determined these outcomes and he presents an innovative method for military force planning that will enable armies to deal with the uncertainties of future wars in real time His proposed method combines conceptual doctrinal cognitive command organizational and technological elements to produce optimal battlefield flexibility and adaptability He then demonstrates that when properly applied this method can eliminate most obstacles to overcoming battlefield surprises A thoroughly researched and objective work of events impacting America's military affairs and security policies Parameters Originally published in Israel in 2007 this thoughtful work by Col Finkel IDF looks at how modern military forces have coped with surprise in terms of innovative technologies techniques or tactics A A NoFi StrategyPage.com This book combines solid history and an innovative analytical structure It begins to fill in a serious hole in our understanding of flexibility or what could better be called adaptation under fire It is strongly recommended for senior military leaders and students of military innovation and force planning Frank Hoffman Journal of Military History *The Origins of American Strategic Bombing Theory* Craig F. Morris, 2017-10-15 Craig F Morris explores the beginnings of American strategic bombing theory why it changed over time the factors that shaped that change and how technology molded military doctrine This much needed book provides a full spectrum discussion of the American strategic bombing concept in a way that advances aviation history In the minds of forward thinking aerial theorists the new technology of the airplane removed the limitations of geography defenses and operational reach that had restricted ground and naval forces since the dawn of human conflict With aviation a nation could avoid costly traditional military campaigns and attack the industrial heart of an enemy using long range bombers Yet the acceptance of strategic bombing doctrine proved a hard fought process This is not the story of any one person or event instead it is a twisting tale of individual efforts organizational infighting political priorities and technological integration By tracing the complex interrelationships of these four causal factors this book provides a greater understanding of the origins and rise to dominance of American strategic bombing theory **General Lesley J. McNair** Mark T. Calhoun, 2015-05-15

George C Marshall once called him the brains of the army And yet General Lesley J McNair 1883 1944 a man so instrumental to America s military preparedness and Army modernization remains little known today his papers purportedly lost destroyed by his wife in her grief at his death in Normandy This book the product of an abiding interest and painstaking research restores the general Army Magazine calls one of Marshall s forgotten men to his rightful place in American military history Because McNair contributed so substantially to America s war preparedness this first complete account of his extensive and varied career also leads to a reevaluation of U S Army effectiveness during WWII Born halfway between the Civil War and the dawn of the 20th century Lesley McNair Whitey by his classmates for his blond hair graduated 11th of 124 in West Point s class of 1904 and rose slowly through the ranks like all officers in the early twentieth century He was 31 when World War I erupted 34 and a junior officer when American troops prepared to join the fight It was during this time and in the interwar period that followed the end of the First World War that McNair s considerable influence on Army doctrine and training equipment development unit organization and combined arms fighting methods developed By looking at the whole of McNair s career not just his service in WWII as chief of staff General Headquarters 1940 1942 and then as commander Army Ground Forces 1942 1944 Calhoun reassesses the evolution and extent of that influence during the war as well as McNair s and the Army s wartime performance This in depth study tracks the significantly positive impact of McNair s efforts in several critical areas advanced officer education modernization military innovation and technological development the field testing of doctrine streamlining and pooling of assets for necessary efficiency arduous and realistic combat training combined arms tactics and an increasingly mechanized and mobile force Because McNair served primarily in staff roles throughout his career and did not command combat formations during WWII his contribution has never received the attention given to more public and publicized military exploits In its detail and scope this first full military biography reveals the unique and valuable perspective McNair s generalship offers for the serious student of military history and leadership **Mars Adapting**

Francis Hoffman, 2021-03-15 As Clausewitz observed In war more than anywhere else things do not turn out as we expect The essence of war is a competitive reciprocal relationship with an adversary Commanders and institutional leaders must recognize shortfalls and resolve gaps rapidly in the middle of the fog of war The side that reacts best and absorbs faster increases its chances of winning Mars Adapting examines what makes some military organizations better at this contest than others It explores the institutional characteristics or attributes at play in learning quickly Adaptation requires a dynamic process of acquiring knowledge the utilization of that knowledge to alter a unit s skills and the sharing of that learning to other units to integrate and institutionalize better operational practice Mars Adapting explores the internal institutional factors that promote and enable military adaptation It employs four cases drawing upon one from each of the U S armed services Each case was an extensive campaign with several cycles of action counteraction In each case the military institution entered the war with an existing mental model of the war they expected to fight For example the U S Navy

prepared for decades to defeat the Japanese Imperial Navy and had developed carrier based aviation Other capabilities particularly the Fleet submarine were applied as a major adaptation The author establishes a theory called Organizational Learning Capacity that captures the transition of experience and knowledge from individuals into larger and higher levels of each military service through four major steps The learning change cycle is influenced he argues by four institutional attributes leadership organizational culture learning mechanisms and dissemination mechanisms The dynamic interplay of these institutional enablers shaped their ability to perceive and change appropriately *A Companion to American Military History* James C. Bradford, 2009-11-03 With more than 60 essays *A Companion to American Military History* presents a comprehensive analysis of the historiography of United States military history from the colonial era to the present Covers the entire spectrum of US history from the Indian and imperial conflicts of the seventeenth century to the battles in Afghanistan and Iraq Features an unprecedented breadth of coverage from eminent military historians and emerging scholars including little studied topics such as the military and music military ethics care of the dead and sports Surveys and evaluates the best scholarship on every important era and topic Summarizes current debates and identifies areas where conflicting interpretations are in need of further study

American Tactical Advancement in World War I Jeffrey LaMonica, 2017-08-08 The U S Army evolved into a truly modern fighting force during World War I When the U S entered the war in 1917 the infantry was its primary offensive arm Training focused mainly on target practice bayonet charges and marching drills Antiquated tactics emphasized massive attack waves relying on ferocity to achieve battlefield objectives Heavy casualties resulted when inexperienced American troops encountered entrenched German veterans trained in the use of modern artillery and machine guns By war's end the American Expeditionary Force had progressed along a bloody learning curve developing sophisticated techniques small flexible formations fire and maneuver and infiltration for breaking the trench warfare stalemate Eventually the AEF integrated new weapons like poison gas tanks and aircraft into its offensive tactics and pioneered the mechanized combined arms warfare still practiced by the U S Army The exploits of the Fifth Red Diamond Division exemplify this critical period of development

The Enigmatic Realm of **Fast Tanks And Heavy Bombers Innovation In The Us Army 1917 1945**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Fast Tanks And Heavy Bombers Innovation In The Us Army 1917 1945** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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