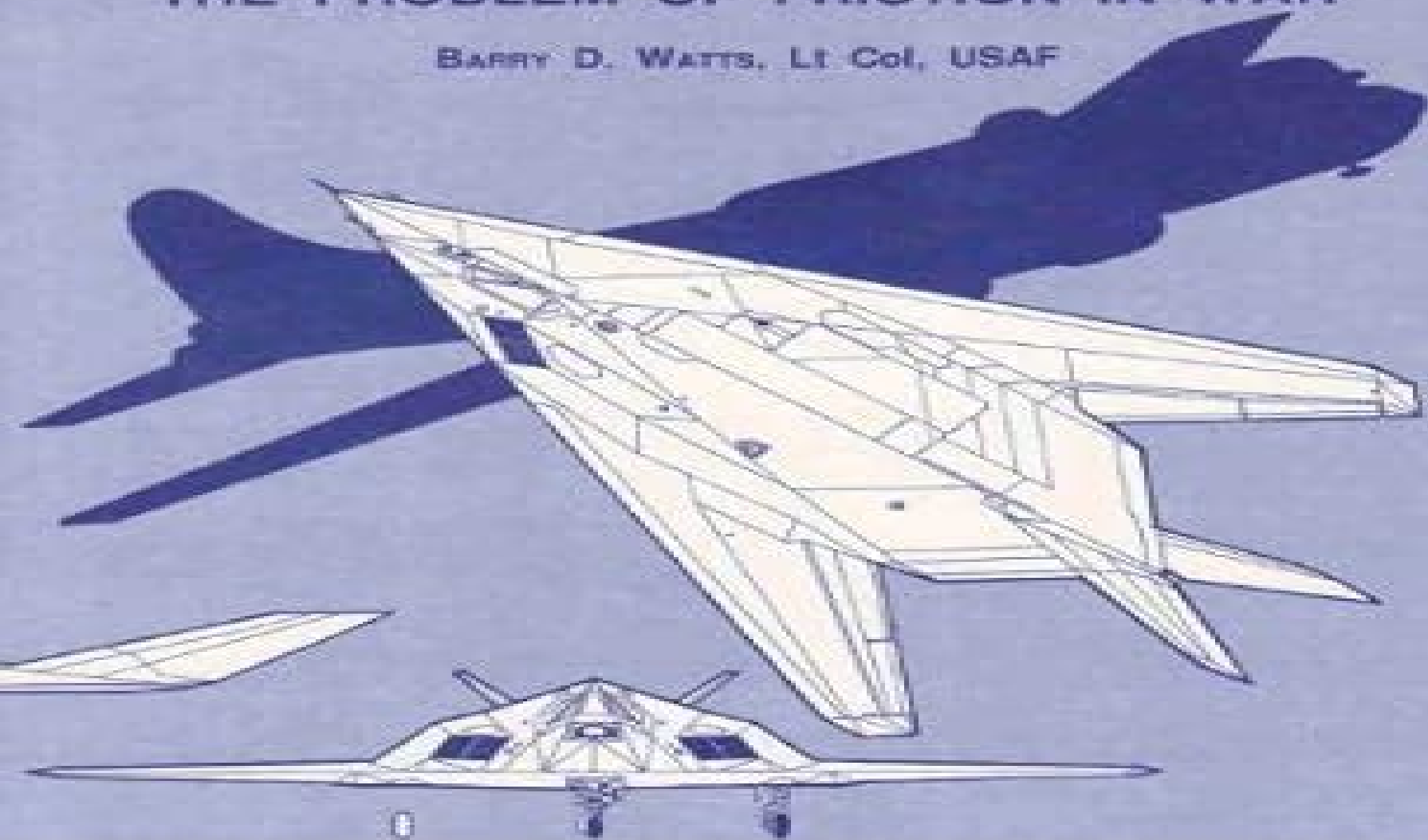


THE FOUNDATIONS OF U.S. AIR DOCTRINE

THE PROBLEM OF FRICTION IN WAR

BARRY D. WATTS, Lt Col, USAF



Foundations Of Us Air Doctrine

Barry D. Watts



Foundations Of Us Air Doctrine:

The Foundations of US Air Doctrine Barry D. Watts, 1984 This study analyzes airpower doctrine from the viewpoint of Clausewitzian friction The study concludes that American airpower doctrine has changed very little since the 1930s and that it is fundamentally flawed

The Foundations of U.S. Air Doctrine Barry D. Watts, 2001-09-01 *The Foundations of U.S. Air Doctrine* Air University Press, U. S. Military, Department of Defense (DoD), Barry D. Watts, U. S. Air Force (USAF), 2017-12-10 This study revolves around friction meaning the ubiquitous uncertainties and inescapable difficulties that form the atmosphere of real war More specifically it attempts to utilize the Clausewitzian concept of general friction as a basis for assessing and if necessary reshaping the foundations of US air doctrine This critical application of friction gives rise to four primary conclusions 1 The key assumptions underlying mainstream US doctrine for conventional air warfare have not evolved appreciably since Air Corps Tactical School ACTS theorists elaborated their theory of precision industrial bombardment during the 1930s 2 Judged by their essential premises and logic post Hiroshima theories of deterrence are little more than an updating for the nuclear age of ACTS bombardment doctrine 3 Both ACTS bombardment doctrine and deterrence theory appear fundamentally flawed insofar as they omit the frictional considerations that distinguish real war from war on paper 4 Reflection upon the extent to which friction pervades the elemental processes of actual combat suggests that the range of situations in which greater numbers or superior weapons guarantee victory is relatively limited even in the age of thermonuclear weapons the outcomes of battles still turn more often than not on the character and intelligence of a few brave individuals The first step in giving substance to these claims is to explain what the central beliefs of US airmen traditionally have been The reader should be warned however that I have approached the writings on war of airmen like Major General Haywood S Hansell Jr and nuclear strategists like Bernard Brodie as well as those of Carl von Clausewitz himself from the perspective of two interrelated questions What overriding assumptions about war did these individuals embrace And what image of war as a total phenomenon is bound up in their assumptions In large part answering these questions is a matter of historical inquiry and to be candid I have been far less concerned with writing history for its own sake than with using the past to illuminate the problems of the present I therefore leave it to the reader to judge whether I have managed to do so without injuring the historical record

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Making the American Century Bruce J. Schulman, 2014 In this volume a group of distinguished historians revisit and revise many of the chestnuts of American political history Blurring the boundaries between political cultural and economic history the contributors raise penetrating questions and challenge readers understanding of the broader narrative of twentieth century U S history

Strategy Edward N. Luttwak, 2002-01-31 In this widely acclaimed work now revised and expanded Edward N Luttwak unveils the peculiar logic of strategy level by level from grand strategy down to combat tactics In the tradition of Carl von Clausewitz Strategy goes beyond paradox to expose the dynamics of reversal at work in the crucible of conflict

Strategic Warfare in Cyberspace Gregory J. Rattray, 2001 A comprehensive analysis of strategic information warfare waged via digital means as a distinct concern for the United States and its allies In the information age information systems may serve as both weapons and targets Although the media has paid a good deal of attention to information warfare most treatments so far are overly broad and without analytical foundations In this book Gregory Rattray offers a comprehensive analysis of strategic information warfare waged via digital means as a distinct concern for the United States and its allies Rattray begins by analyzing salient features of information infrastructures and distinguishing strategic information warfare from other types of information based competition such as financial crime and economic espionage He then establishes a conceptual framework for the successful conduct of strategic warfare in general and of strategic information warfare in particular Taking a historical perspective he examines U S efforts to develop air bombardment capabilities in the period between World Wars I and II and compares them to U S efforts in the 1990s to develop the capability to conduct strategic information warfare He concludes with recommendations for strengthening U S strategic information warfare defenses

The Evolution of the US Air Force Israel Guy, 2024-08-05 This book looks at the history of the US Air Force through the lens of its lack of preparedness for major wars which is shown to be a result of its organizational culture The U S Air Force is probably the most powerful military force in history both in its destructive firepower and in its ability to project it globally Yet

despite its unparalleled power the Air Force entered its first three pivotal conflicts World War II the Korean War and the Vietnam War unprepared But surprisingly it was remarkably well prepared for its fourth major war the Gulf War of 1991 Could there be an underlying trait or characteristic which influenced the Air Force between the wars that historically caused the US Air Force to be unprepared for war or prepared for the wrong type of war Surprisingly there is such a factor which was quite prominent in the Air Force s complex identity its organizational culture Besides providing a historical description of the Air Force this book demonstrates clearly how its organizational culture evolved and how it caused the US Air Force to be prepared for the wrong war It also shows that when the organizational culture changed the Air Force changed its focus and arrived prepared for the following war the 1991 Gulf War This book will be of interest to students of air power strategic studies US public policy and security studies in general

The Dynamics of Military Revolution, 1300-2050 MacGregor Knox, Williamson Murray, 2001-08-27 The Dynamics of Military Revolution aims to bridge a major gap in the emerging literature on revolutions in military affairs suggesting that there have been two very different phenomena at work over the past centuries military revolutions which are driven by vast social and political changes and revolutions in military affairs which military institutions have directed although usually with great difficulty and ambiguous results By providing both a conceptual framework and a historical context for thinking about revolutionary changes in military affairs the work establishes a baseline for understanding the patterns of change innovation and adaptation that have marked war in the Western World since the thirteenth century beginning with Edward III s revolutionary changes in medieval warfare through the development of modern Western military institutions in seventeenth century France to the cataclysmic changes of the First World War and the German Blitzkrieg victories of 1940 This history provides a guide for thinking about military revolutions in the coming century which are as inevitable as they are difficult to predict

AU Press, Your Air and Space Power Publisher, 2003, 2003

Clausewitz and Modern Strategy Michael I. Handel, 1986 Clausewitz and Modern Strategy is the first ever volume devoted to the influence and interpretation of Clausewitz On War to be published in the English language Among all the better known works on military theory in Western civilization it is Carl von Clausewitz magnum opus that has been able to withstand every kind of political social economic and technological change since it first appeared in 1832 and will always remain of more than purely historical interest This collection of essays first presented at an international conference on Clausewitz at the US Army War College in April 1985 spans every possible aspect of Clausewitz influence It is grouped into three parts The first addresses the issue of whether an early nineteenth century book on war is still pertinent today in an era when war more than any other human activity has been revolutionized by modern technology In the second part analyses are made of selected theoretical concepts and other specific subjects discussed by Clausewitz ranging from chance and uncertainty space and time and intelligence in war to guerrilla warfare The final part takes a critical look at Clausewitz influence on the development of strategic doctrines in several European countries as well as the

degree to which his theories were not only understood but misunderstood by various military thinkers In many instances Clausewitz readers interpreted his ideas out of context and selectively employed his theories to match their own preconceived notions Like many other works on political theory and philosophy On War is not always easy to read and understand Clausewitz and Modern Strategy provides an excellent introduction to the complex world of Clausewitzian thought offering a better overall understanding of Clausewitz key concepts his system of thinking and his influence on the study of modern war It is indispensable reading for all students military historians strategic analysts and thinkers

Fifty Shades of Friction Mark Clodfelter, Airpower Pioneers John Andreas Olsen, 2023-01-15 Airpower Pioneers studies twelve especially influential airmen detailing their impact on the evolution of the United States Air Force USAF Rather than focus on command in a series of air campaigns this book describes the personal qualities and careers of people who distinguished themselves first and foremost by advancing airpower theory doctrine and strategy and in certain cases by implementing significant organizational changes in the USAF structure Some held important positions during wartime but except for a few who excelled in both combat and peace those selected for inclusion in this volume made their main contributions to advancing aerospace power away from the front line as planners organizers educators and strategists The future of aerospace power requires airmen not only to push the limits in combat but also to emphasize publicly and frequently what is special and vital about airpower The distinctive characteristics of airpower speed range flexibility precision and lethality have improved with every new generation of aircraft and weapon systems The history of modern warfare is full of empirical evidence of airpower's relevance Looking ahead the main challenge for air forces all over the world is to match advances in technology with new ideas All air forces need visionary men and women whose reach exceeds their grasp who are determined to adapt to new security and defense realities rather than adhere to romanticized ideas of yesteryear and whose organizational skills ensure successful implementation of new ideas despite inevitable resistance to change

Marshall's Great Captain Kathy Wilson, 2024-04-23 On May 3 1943 dozens of airplanes could be seen flying in and out of Royal Air Force Bovingdon Airfield near London England Among the aircraft seen that day was a B 24D bomber named Hot Stuff which carried the Commanding General of US Forces in Europe Lieutenant General Frank M Andrews the officer charged with formulating a plan to invade the European continent Speculation was that General George C Marshall had called Andrews back to Washington DC leading many to believe that Marshall had another promotion in store for Andrews Tragically Andrews would never arrive While attempting to land in Iceland the bomber crashed into the side of a mountain with no survivors other than the tail gunner Andrews's personal papers were also destroyed In Marshall's Great Captain Lieutenant General Frank M Andrews author Kathy Wilson details Andrews's extraordinary life and career The first biography dedicated to the namesake of Joint Base Andrews this book sheds a light on Andrews's crucial role in orchestrating US involvement in World War II as well as the professional relationship and rapport that Andrews and Marshall shared Drawing on extensive

research Wilson raises Andrews's legacy to its legitimate place within the annals of both air power and World War II history and posits that there is a high probability that Andrews rather than Dwight D. Eisenhower was Marshall's first choice for the office of Supreme Allied Commander. Marshall recounted that Andrews was the only one he had a chance to prepare for such a command. *Monthly Catalog of United States Government Publications*, 2004-07

Planning for War at Sea Evan Wilson, Paul M. Kennedy, 2025-02-04 How have navies contemplated possible enemies? How did they learn or fail to learn once operations began? How does this analysis inform today's planning for future conflict? These questions guide the noted historians and naval strategists who contributed to *Planning for War at Sea*. A central theme is the regular failure of navies' best laid plans. Covering four centuries of naval warfare, the chapters illustrate the challenges all navies faced when considering possible enemies. Even during the Age of Sail, ships were among the most expensive and long-term national endeavors. Navies therefore planned well in advance for future wars, usually without knowing their adversaries or how they would fight them at sea. Building a capable navy requires sustained investment in naval infrastructure long before the fighting starts. In the final chapters, naval strategists expand on this historical analysis to address how effectively or ineffectively today's three leading navies—Russia, China, and the United States—have configured themselves during the post-Cold War era in preparing for future great power conflict. This collection is an important work for strategists, scholars, and policymakers.

How Wars Are Won and Lost John A. Gentry, 2011-11-10 This provocative book seeks to answer a most crucial and embarrassing question concerning the U.S. military: why the United States is so often stymied in military confrontations with seemingly weaker opponents despite its superpower status. This fascinating book examines a question that continues to puzzle soldiers, statesmen, and scholars: why do major powers, including the ostensible superpower United States, repeatedly perform poorly against seemingly overmatched adversaries? And what can they and the United States do to better achieve their military objectives? *How Wars Are Won and Lost*. Vulnerability and Military Power argues that beyond relying solely on overwhelming military might, the United States needs to focus more on exploiting weaknesses in their adversaries, such as national will, resource mobilization, and strategic miscues, just as opposing forces have done to gain advantage over our military efforts. The author tests the vulnerability theory by revisiting six conflicts from the Philippine War of 1899-1902 to the ongoing actions in Iraq and Afghanistan, showing again and again that victory often depends more on outthinking the enemy than outmuscling them.

Fighting with the Soviets Mark J. Conversino, 1997 Conversino's story is as interesting as it is unfamiliar and succeeds in opening up Frantic's many dimensions, including the personal as well as the political, strategic, and operational. His revelations regarding the interactions between American servicemen and Ukrainian Russians are especially valuable and underscore the immense difficulties of implementing alliances at the grass roots level.

Dennis Showalter, author of *Tannenberg: Clash of Empires*

Defense Policy in the Reagan Administration William P. Snyder, 1997-03 By substantially increasing defense budgets, the Reagan Administration (RA) did more than merely underwrite

improvements in military forces it undertook initiatives that changed both the image and reality of America's national defense. This book examines the Strategic Defense Initiative, the 600 ship Navy, and the hefty increase in the Defense budget. Critics and supporters of the RA do agree on one point: the RA came into office with the intent of strengthening defense policy. How well the RA succeeded in that effort and the cost of that success are debated here.

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