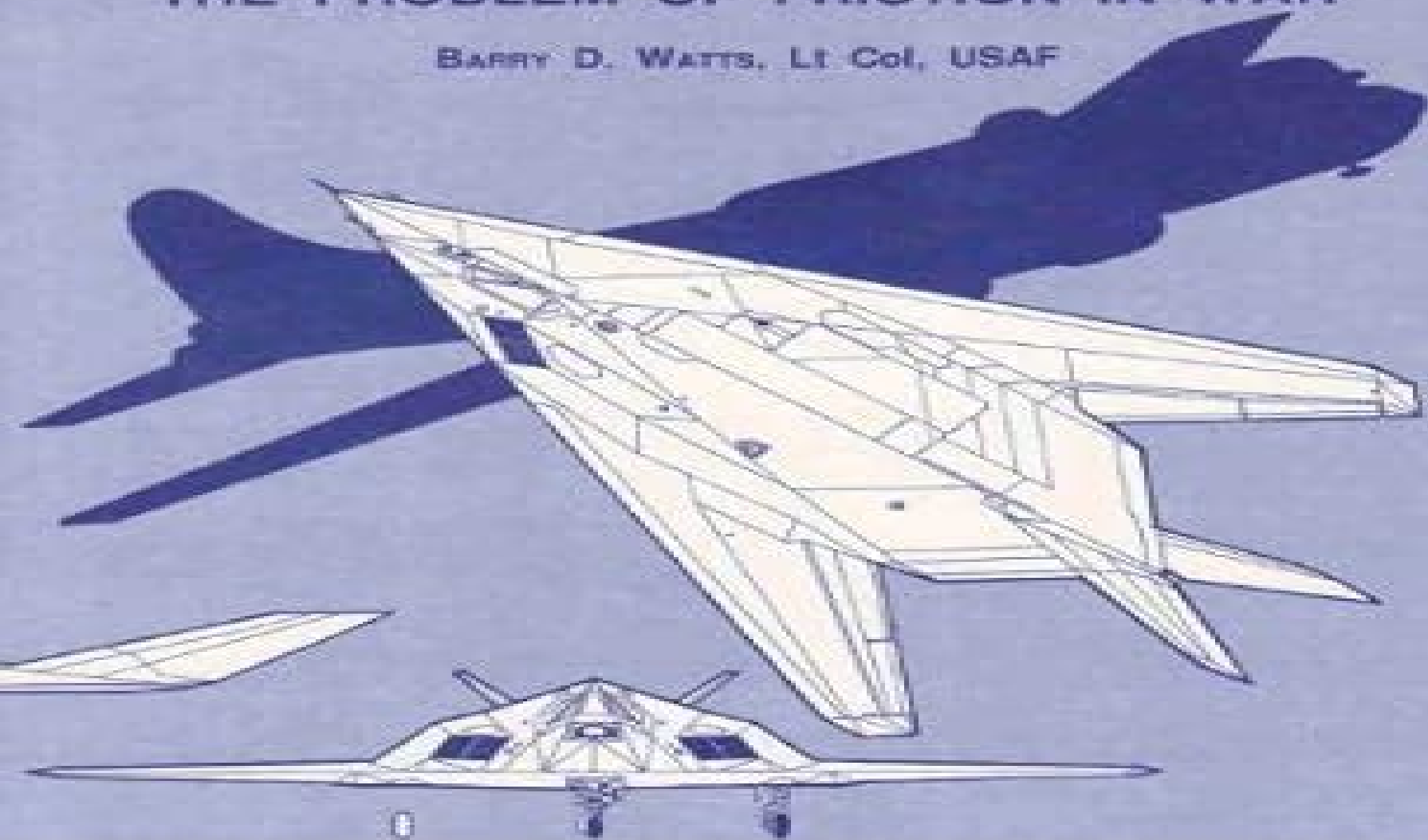


# THE FOUNDATIONS OF U.S. AIR DOCTRINE

THE PROBLEM OF FRICTION IN WAR

BARRY D. WATTS, Lt Col, USAF



# Foundations Of Us Air Doctrine

**Evan Wilson, Paul M. Kennedy**



## **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 - the Problem of Friction in War* Barry Watts, LtC Barry D Watts, 2012-08-01 FROM THE AUTHOR 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 Air University Press 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 Contents 1 INTRODUCTION Notes 2 DOUHET AND MITCHELL Douhet s Image of War Unrestrained Offense Mitchell s Aerial Knights Notes 3 THE FIRST US STRATEGIC AIR WAR PLAN Daylight High Altitude Precision Bombardment Doctrine AWPDP 1 The Image of War in AWPDP 1 Notes 4 THE POLICY AND STRATEGY OF DETERRENCE Brodie s Assumptions Brodie s Image of All Out War in the Missile Age A Paradox of Deterrence Theory Notes 5 A CLAUSEWITZIAN CRITIQUE The Core Beliefs of Mainstream US Air Doctrine Some Ramifications Friction Collective Risk Notes 6 FRICTION IN 20TH CENTURY WARFARE Part 1 Friction in the Combined Bomber Offensive World War II Weather October 1943 Information Doctrinal Rigidity Enemy Countermeasures Big Week and the Problem of Industrial Impact Assessments March and April 1944 Friction as a Weapon Epilogue in Korea Railway Interdiction August 1951 May 1952 Part 2 Friction in the Missile Age The Not So Delicate Balance of Terror The Emergence of Friction in Brodie s Thought The Cuban Missile Crisis Notes 7 TOWARD A LESS MECHANISTIC IMAGE OF WAR US Air Doctrine and Laplacian Determinism Cartesian Hypotheses Uncertainty Undecidability The Human Cost of War Combat Psychology as Context Some Consequences of Embracing a More Organic Image of War Learning from History Nurturing Military Genius Exemplars for Future Wars Friction as a Weapon and Entropy Summing Up Notes APPENDIX General Eaker s Presentation of the Combined Bomber Offensive Plan to the Joint Chiefs of Staff SELECTED BIBLIOGRAPHY **The Foundations of US Air Doctrine** Barry D. Watts, 1985 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 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

**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

**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      **Newsletter** ,1992      **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      **Fifty Shades of Friction** Mark Clodfelter,      *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      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      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      **Defense Policy in the Reagan Administration** William P.

Snyder,1997-03 By substantially increasing defense budgets the Reagan Admin 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      *Monthly Catalogue, United States Public Documents* ,1986      *Winged Shield, Winged Sword* ,1997      *Winged Shield, Winged Sword 1950-1997*

Bernard C. Nalty,2003-11 Describes and analyzes in the context of national policy and international rivalries the evolution of land based air power since the United States Army in 1907 established an Aeronautical Division Provides a clearer understanding of the central role of the Air Force in current American defense policy



The Top Books of the Year Foundations Of Us Air Doctrine The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have enthralled audiences this year. Foundations Of Us Air Doctrine : Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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info the blond man s partner he s guarding the communication device that controls the detonation of the bomb in the air defense shelter of a defense forces facility he has dark brown skin and a muscular body type he is very tough and even if dazai hits him on the stomach with full force it had no effect

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