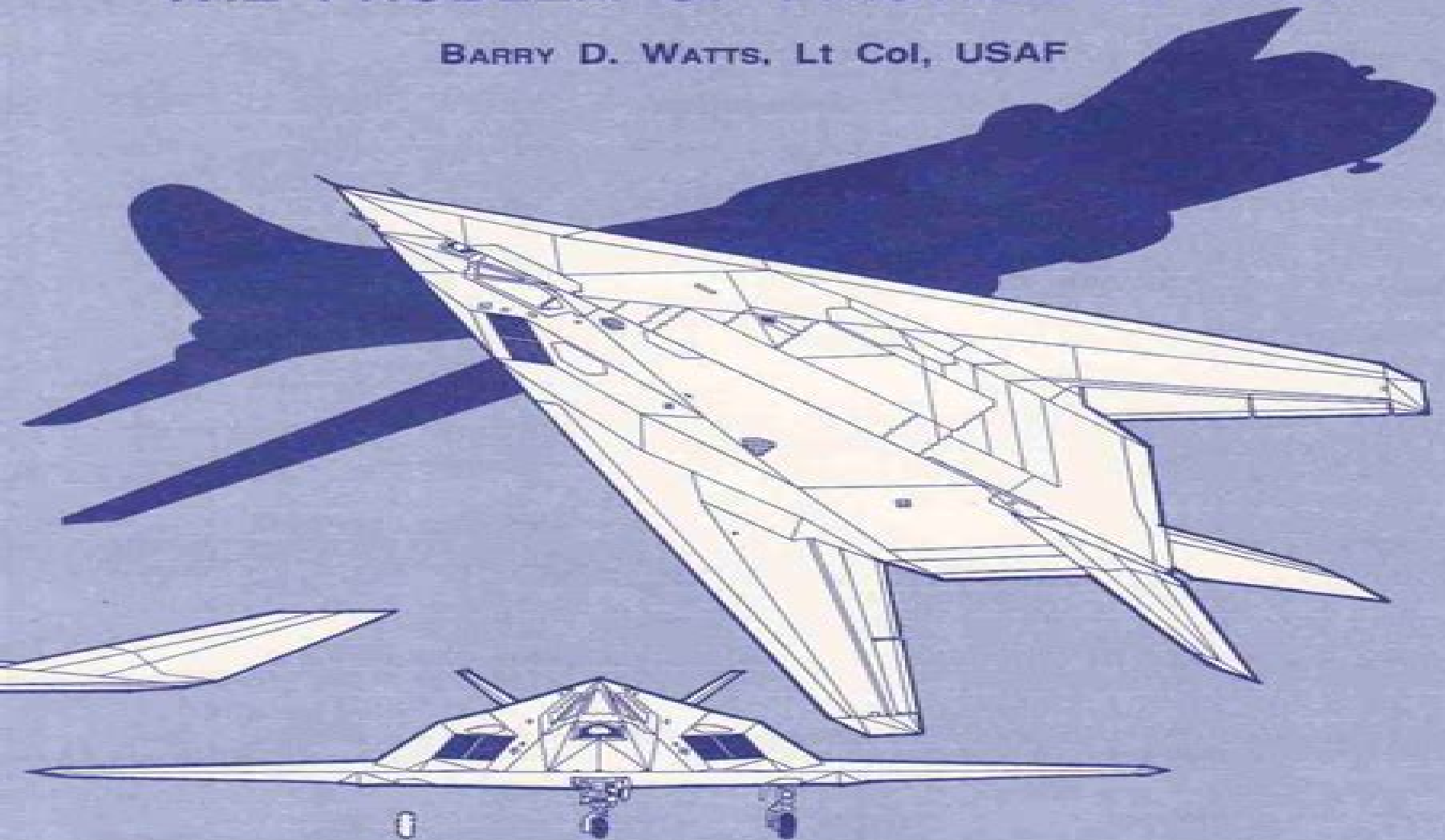


THE FOUNDATIONS OF U.S. AIR DOCTRINE

THE PROBLEM OF FRICTION IN WAR

BARRY D. WATTS, Lt Col, USAF



The Foundations Of Us Air Doctrine The Problem Of Friction In War

Frans P.B. Osinga



The Foundations Of US Air Doctrine The Problem Of Friction In War:

The Foundations of U.S. Air Doctrine Barry D. Watts, 2001-09-01 *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 US air doctrine* Barry D. Watts, 1984 *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 AWPD 1 The Image of War in AWPD 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

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 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
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 thinking about military revolutions in the coming century which are as inevitable as they are difficult to predict **The
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 Clausewitzian friction The study concludes that American airpower doctrine has changed very little since the 1930s and that
 it is fundamentally flawed **AU Press, Your Air and Space Power Publisher, 2003**, 2003 **Monthly Catalog of
 United States Government Publications**, 1986 **Interservice Rivalry and Airpower in the Vietnam War** Ian
 Horwood, 2010 Explores the rivalry between the armed services of the U S relating to the employment of tactical airpower
 during the Vietnam War Not being an American Horwood is able to put a fresh perspective on this complex issue This study
 focuses on tactical airpower in S Vietnam between 1961 and 1968 Horwood avoids a lengthy discussion of the air war over N
 Vietnam focusing instead on the combat operations in the South He examines a number of issues which are relevant to the
 use of airpower in irregular warfare command and control of airpower the use of airpower at the tactical and the operational
 strategic level of war the role of helicopters and different service understandings of the proper role of airpower in a
 counterinsurgency **Science, Strategy and War** Frans P.B. Osinga, 2007-01-24 John Boyd is often known exclusively for
 the so called OODA loop model he developed This model refers to a decision making process and to the idea that military

victory goes to the side that can complete the cycle from observation to action the fastest This book aims to redress this state of affairs and re examines John Boyd s original contribution to strategic theory By highlighting diverse sources that shaped Boyd s thinking and by offering a comprehensive overview of Boyd s work this volume demonstrates that the common interpretation of the meaning of Boyd s OODA loop concept is incomplete It also shows that Boyd s work is much more comprehensive richer and deeper than is generally thought With his ideas featuring in the literature on Network Centric Warfare a key element of the US and NATO s so called military transformation programmes as well as in the debate on Fourth Generation Warfare Boyd continues to exert a strong influence on Western military thinking Dr Osinga demonstrates how Boyd s work can help us to understand the new strategic threats in the post 9 11 world and establishes why John Boyd should be regarded as one of the most important post modern strategic theorists

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