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Air and Space Power Theory and Doctrine

SECOND EDITION

MILITARY ART AND SCIENCE
UNITED STATES AIR FORCE ACADEMY

Edited by

Steven R. Drago • James M. Smith • Philip J. LaSala

Air Power Theory And Doctrine

John F. O'Connell



Air Power Theory And Doctrine:

Airpower And The Cult Of The Offensive Major John R. Carter, 2015-11-06 The belief that airpower is inherently offensive is a recurrent theme throughout airpower theory and doctrine Before World War I dogmatic belief in the dominance of the offense in land warfare affected the military decisions which resulted in the disaster of the trenches Termed the cult of the offensive by scholars faith in offense became so unshakable in pre 1914 Europe that military organizations dismissed as irrelevant the numerous indications of the waning power of the offense as technological developments strengthened the defense With airpower's professed inclination for offense could a cult of the offensive perniciously trap airpower doctrine and lead to similarly disastrous consequences The study begins by establishing the theoretical background necessary for case study analysis Airpower defense is defined as those operations conducted to deny another force's air operations in a designated airspace Airpower offenses are those operations in the airspace defended by another or operations conducted outside of one's actively defended airspace The relationship between offense and defense is dissected to discover that airpower defense enjoys neither an advantage of position nor of time so traditional Clausewitzian views relative to the power of the defense do not apply to airpower Next the study describes those factors which may inject or reinforce a preferential bias for offense into airpower strategy and doctrine A cult of the offensive is defined as an organizational belief in the power of offense so compelling that the military organization no longer evaluates its offensive doctrine objectively This leads to an examination of the ramifications postulated to result from offensive ideology

The Paths Of Heaven: The Evolution Of Airpower Theory: The School Of Advanced Airpower Studies Philip S. Meilinger, 2000 *The Paths of Heaven* Air University Press, 2014-08-01

Airpower Theory and Doctrine, 1991 *The Development of British Tactical Air Power, 1940-1943* Matthew Powell, 2016-09-10 This book explores the development of tactical air power in Britain between 1940 and 1943 through a study of the Royal Air Force's Army Co operation Command It charts the work done by the Command during its existence and highlights the arguments between the RAF and Army on this contentious issue in Britain Much is known about the RAF both in the years preceding and during the Second World War particularly the exploits of Fighter Bomber and Coastal Commands yet the existence of the RAF's Army Co operation Command is little known Through extensive archival research Matthew Powell maps the creation and work of the RAF's Army Co operation Command through an analysis of tactical air power developments during the First World War and inter war periods highlighting the debates and arguments that took place between the Air Ministry and the War Office

Airpower John Gooch, 2013-11-05 The nine contributors to this volume study the rapid development of airpower during the twentieth century as well as the methodological problems involved in assessing such change

Military Air Power in Europe Preparing for War Norman Ridley, 2023-01-24 The First World War had seen the mechanization of warfare Battle fronts had become immobilized in the grip of machine guns and heavy artillery leading to slaughter on an unprecedented scale The end of the war saw exhausted governments

extricating themselves from the carnage but some leaders were concerned that sooner or later another major war would follow As France s Marshal Foch put it the Treaty of Versailles was only a twenty year truce The overriding concern was to find ways in future of avoiding the kind of static battle fronts that had consumed so many in such futile efforts Military aviation was seen as the one great innovation that had the potential to do this by revolutionizing warfare It would not only augment the effectiveness of ground forces in a tactical role but it also had the means of reaching out strategically beyond the battlefronts to strike at the enemy s trade supplies communications and industrial production All through the war military aviation had been firmly under the control of army commanders but there was soon a fierce debate over the way it should develop The development of an air doctrine within each of the major European powers was fraught with difficulty as the nascent air arms struggled with varying degrees of success to free themselves from army control to find a new independent identity This book examines the way in which these air arms competed for prominence within the military structures of six major European nations Germany Britain France Soviet Union Poland and Italy with different resources ambitions and philosophies in the years from the beginning of aviation right up to the start of the Second World War

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

Professional Journal of the United States Army ,2004

The USAF and Technological Asymmetry Karen S. Wilhelm,U.S. Army Command and General Staff College. School of Advanced Military Studies,1995

The Effectiveness of Airpower in the 20th Century John F. O'Connell,2007-09 This volume looks at the air arms of seven nations engaged in World War II France Germany Great Britain Italy Japan the USSR and the United States Selected campaigns are discussed in detail to illustrate how national pre war airpower doctrine was applied and what results were achieved Preface

Green and Blue in the Wild Blue U. S. Military,Department of Defense (DoD),U. S. Air Force (USAF),U. S. Government,2017-12-03 This study examines the nature and degree of the convergence of Army and Air

Force airpower thinking and doctrine since the Vietnam War The value of this effort lies in providing a better understanding of those areas of agreement which could form the conceptual basis for a comprehensive conventional land based airpower theory Following the Vietnam War Air Force airpower thinking and doctrine splintered into strategic and tactical camps while within the Army airpower thinking and doctrine remained closely tied to tactical land warfare doctrine As the Army's basic doctrine evolved from a linear firepower intensive Active Defense into the maneuver oriented AirLand Battle debate over centralized control of airpower led to a shift in both Army and Air Force airpower thinking from tactical level CAS to interdiction and by 1986 to a joint theater wide operational campaign perspective Simultaneously advancing sensor computer processing and weapons guidance technology combined with a renewed interest in the study of aerial warfare to cause reassessment and eventual recognition within the Air Force that tactical and strategic airpower concepts were artificial and limiting By 1990 the dissolution of the Soviet Union and increasing non linearity of the modern battlefield made airpower's mobility firepower and flexibility increasingly important to both services This paper finds that Army and Air Force airpower theory and doctrine have converged at the operational level of warfare The kernel of a future airpower theory may be found in two propositions The first is the general agreement between the Army and the Air Force that airpower can provide important potentially decisive capabilities throughout a theater of operations when centrally controlled The second proposition is found in the realization by the Air Force that distinctions between strategic and tactical airpower are artificial and limiting The corollary to the second proposition is that the relative effectiveness of a particular airpower role or mission is situationally dependent

Tactical Air Power and the Vietnam War Phil Haun, 2024-01-18 A theory of tactical air power explaining US air power effectiveness in Vietnam and the modern air wars that followed *Airpower* John Gooch, 2013-11-05 The nine contributors to this volume study the rapid development of airpower during the twentieth century as well as the methodological problems involved in assessing such change

Military Strategy, Joint Operations, and Airpower Ryan Burke, Michael Fowler, Jahara Matisek, 2022 Military Strategy Joint Operations and Airpower introduces students to contemporary strategy and the operational level of war particularly as it relates to airpower Developed as foundational reading for all US Air Force Academy cadets this intermediate textbook is designed to close the gap between military theory and practice It covers strategic foundations operational design and joint service operations the air space and cyber capabilities that comprise modern airpower and contemporary challenges in the application of strategy In this second edition each chapter has been updated and revised and several sections have been expanded Part II Military Forces and the Joint Fight is now has separate chapters about each service in addition to a chapter on joint structure Similarly operational design is expanded from one to four chapters to provide a more thorough step by step guide through the process New chapters in this second edition include Integrating the Instruments of Power The Spectrum of Conflict and Range of Military Operations and The Nuclear Weapons Triad and Missile Defense This book's contributing authors and editors include both

military practitioners and scholars of security studies political science and history In addition to being required reading for Air Force cadets and ROTC students the book will provide an essential overview of strategy and practice for anyone interested in modern airpower

Space and Defense Policy Damon Coletta, Frances T. Pilch, 2009-10-16 This edited volume introduces the reader to the role of space in military and defense strategy and outlines some of the major foreign and domestic actors in the space arena as well as constraints of law and treaties on activities in space It also addresses science and technology as they relate to space policy The book addresses three main questions How does the realm of space fit into strategic thinking about national security How does policy regarding space develop and what considerations both in the United States and abroad figure prominently in calculations about space policy How do different states nations actors regard the role of space in their national security calculations and how do these policies impact each other This book fills a niche in the space policy field providing insights into space and strategy from international experts from the military academic and scientific communities A unique feature of the book is the chapter on science and technology which utilizes the latest information available concerning space utilization and exploration

The Paths of Heaven U. S. Military, Department of Defense (DoD), U. S. Air Force (USAF), U. S. Government, 2017-09-25 The purpose of this book is to trace the evolution of airpower theory from the earliest days of powered flight to the present concluding with a chapter that speculates on the future of military space applications Although the men and women of the Air Force have recorded some outstanding accomplishments over the past 50 years on the whole our service has remained more concerned with operations than theory This focus has produced many notable achievements but it is equally important for airmen to understand the theory of airpower Historian I B Holley has convincingly demonstrated the link between ideas and weapons and in the conclusion to this book he cautions that a service that does not develop rigorous thinkers among its leaders and decision makers is inviting friction folly and failure In that light The Paths of Heaven is a valuable means of increasing our expertise in the employment of airpower It offers an outstanding overview of airpower theories since the dawn of flight and will no doubt serve as the basic text on this vital subject for some time to come The contributors all from the School of Advanced Airpower Studies SAAS at Maxwell AFB Alabama are the most qualified experts in the world to tackle this subject As the home of the only graduate level program devoted to airpower and as the successor to the Air Corps Tactical School SAAS boasts students and faculty who are helping build the airpower theories of the future In explaining how we can employ air and space forces to fulfill national objectives this book enriches the Air Force and the nation Airpower may not always provide the only solution to a problem but the advantages of speed range flexibility and vantage point offered through the air and space environment make airpower a powerful instrument for meeting the needs of the nation Understanding these advantages begins by knowing the ideas behind the technology Chapter 1 Giulio Douhet and the Origins of Airpower Theory Chapter 2 Trenchard Slessor and Royal Air Force Doctrine before World War II Chapter 3 Molding Airpower Convictions Development and Legacy

of William Mitchell's Strategic Thought Chapter 4 The Influence of Aviation on the Evolution of American Naval Thought Chapter 5 Airpower Thought in Continental Europe between the Wars Chapter 6 Interwar US Army Aviation and the Air Corps Tactical School Incubators of American Airpower Chapter 7 Alexander P de Seversky and American Airpower Chapter 8 Strategic Airpower and Nuclear Strategy New Theory for a Not Quite So New Apocalypse Chapter 9 Air Theory Air Force and Low Intensity Conflict A Short Journey to Confusion Chapter 10 John Boyd and John Warden Airpower's Quest for Strategic Paralysis Chapter 11 An Ambivalent Partnership US Army and Air Force Perspectives on Air Ground Operations 1973-90 Chapter 12 The Evolution of NATO Air Doctrine Chapter 13 Soviet Military Doctrine and Air Theory Change through the Light of a Storm Chapter 14 Ascendant Realms Characteristics of Airpower and Space Power Chapter 15 Reflections on the Search for Airpower Theory

Curriculum Handbook with General Information Concerning ... for the United States Air Force Academy United States Air Force Academy, **Beyond the Battle Line: US Air Attack Theory and Doctrine, 1919-1941** Major Gary C. Cox, 2015-11-06 This study examines the development and usefulness of US air attack theory and doctrine during the interwar period 1919-1941 This period represents more than twenty years of development in US Air Corps attack theory and doctrine It was the first peacetime period of such development Attack aviation during this time was a branch of aviation used to provide direct and indirect combat support to ground forces in the form of machine gun strafing light bombing and chemical attacks From the earliest origins attack theory and doctrine evolved primarily along two paths direct and indirect support of ground and air force objectives The direct support approach was based on fundamental beliefs by the Army that attack aviation was an auxiliary combat arm to be used directly on the battlefield against ground forces and to further the ground campaign plan The indirect support approach or air interdiction was derived from the fundamental beliefs by the Air Corps that attack aviation was best used beyond the battle line and artillery range against targets more vulnerable and less heavily defended to further both the Air Force mission and the ground support mission As attack doctrine evolved range and hardened targets became problematic for the single engine attack plane Thus attack theory and doctrine in terms of the indirect support approach was adequately developed to be useful at the start of WWII The use of light and medium bombers in North Africa showed the effectiveness of air interdiction and the indirect approach Attack aviation had indeed established itself before WWII Attack aviation in the form of close air support would have to wait for the lessons of WWII

The Chinese Air Force Richard P. Hallion, Roger Cliff, Phillip C. Saunders, Center for the Study of Chinese Military Affairs (U.S.), 2012-10-03 Presents revised and edited papers from a October 2010 conference held in Taipei on the Chinese Air Force The conference was jointly organized by Taiwan's Council for Advanced Policy Studies the Carnegie Endowment for International Peace the U S National Defense University and the RAND Corporation This book offers a complete picture of where the Chinese air force is today where it has come from and most importantly where it is headed

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