

The Four Forces Airpower Theory

A Monograph

By

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The Four Forces Airpower Theory

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The Four Forces Airpower Theory:

The Four Forces Airpower Theory U.s. Army Command and General Staff College,2014-10-22 This book suggests an airpower theory that helps explain why airpower does not result in quick clean economical ideal war The novelty of this theory stems from the graphic analogy of the four forces that act upon an aircraft in flight The theory suggests that technology is the thrust that propels airpower towards ideal war by generating the lift of improved effects The drag of resource constraints and weight or gravity of enemy technology and counter tactics work in opposition and drag airpower from ideal towards real war A review of three major airpower advocates William Mitchell Giulio Douhet and John Warden sets a foundation for how airpower advocates have developed ideas concepts and theory about airpower s future capabilities Three case studies the B 17 free fall nuclear bomb and F 22A fighter trace how airpower advocacy led to technology that would enable ideal war In each case application of the Four Forces theory demonstrates that while resource constraints and enemy technology and counter tactics prevent ideal war airpower technology improves the character of war as a whole

The Paths Of Heaven: The Evolution Of Airpower Theory: The School Of Advanced Airpower Studies Philip S. Meilinger,2000 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 *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 *Contemporary Military Theory* Jan Angstrom,J.J. Widen,2014-07-17 The book aims to provide the reader with a state of the art introduction to classic and modern military theory The text accounts for the most important theories within the field by developing and analyzing these theories as well as problematizing both their normative and explanatory aims While focusing on military theory the book does not only reflect a single way of relating to knowledge of war and warfare but furthers learning by introducing contrasting perspectives as well as constantly criticizing the theories There is a clear need

for an introductory text for the entire field of military theory that focuses whole heartedly on the theories not on their context or how they are expressed in practice during war This book covers such questions as how we should understand the changing character of war the utility of force and how the pursuit of political ends is achieved through military means It draws upon and illustrates military thought through a wide ranging number of examples from the Napoleonic Wars to the current war in Afghanistan This book will be of great interest for students of military theory strategic studies security studies and defence studies

John Warden and the Renaissance of American Air Power John Andreas Olsen, 2007-06-30 Included on the Chief of Staff of the United States Air Force's reading list for 2008 and the Royal Air Force's Centre for Air Power Studies 2008 Reading List Dr John Andreas Olsen has written an insightful compelling biography of retired U S Air Force colonel John A Warden III the brilliant but controversial air warfare theorist and architect of Operation Desert Storm's air campaign Warden's radical ideas about air power's purposes and applications promulgated at the expense of his own career sparked the ongoing revolution in military affairs Legendary in defense circles Warden is also the author of *The Air Campaign Planning for Combat* republished by Brassey's Inc in 1989 Presenting both the positives and negatives of Warden's personality and impact in this objective portrait Olsen offers a trenchant analysis of his revolutionary ideas and great accomplishments

Air & Space Power Journal win 03, *The Icarus Syndrome* Carl H. Builder, 2017-07-12 At the end of the Reagan era many in the U S Air Force began to express their concerns about the health of their institution They questioned whether the Air Force had lost its sense of direction its confidence its values even its future For some these concerns reflected nothing more than the maturation of the most youthful of America's military institutions For others it was a crisis of spirit that threatened the hard won independence of the Air Force Although the diagnoses for this malaise are as numerous as its symptoms *The Icarus Syndrome* points a finger at the abandonment of air power theory sometime in the late 1950s to early 1960s as the single taproot cause of the problems That provocative diagnosis is followed by an equally provocative prescription the Air Force must follow to regain its institutional health Author Carl H Builder begins with an overview of this crisis of values within the Air Force along with a litany of concerns about what seems to have gone wrong within that institution The history of the U S Air Force along with the role played in it by air power theory is explored and is used to support Builder's thesis The remainder of the book is an analysis of what went wrong and when how these wrongs might be corrected and the challenges for Air Force leadership in the future Now available in paperback *The Icarus Syndrome* will be of great interest to U S Air Force professionals military and aviation historians and institutional psychologists

Soviet Air Force Theory, 1918-1945 James Sterrett, 2007-01-24 This new book examines the development of Soviet thinking on the operational employment of their Air Force from 1918 to 1945 using Soviet theoretical writings and contemporary analyses of combat actions

Joint Force Quarterly, 1999 Joint Force Quarterly is published for the Chairman Joint Chiefs of Staff by the Institute for National Strategic Studies National Defense University to promote

understanding of the integrated employment of land sea air space and special operations forces The journal focuses on joint doctrine coalition warfare contingency planning combat operations conducted by the unified commands and joint force development **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

Monthly Catalog of United States Government Publications ,1994 *Understanding Contemporary Strategy* Thomas M. Kane,David J. Lonsdale,2012-03-12 Understanding Contemporary Strategy provides an accessible and comprehensive introduction to the theory and practice of modern strategy Covering all the main issues in the field the book explores the major themes through a combination of classical and modern strategic theory history and current practice The book is split into three main sections Definition and Context including discussion of the human technological intelligence ethical and grand strategic dimensions Strategy in the Geographic Environments land sea air and space Contemporary Strategic Challenges terrorism insurgency and nuclear strategy Each chapter presents the reader with a succinct summary of the topic but also provides a challenging analysis of current issues supporting students with pedagogical features such as suggested further reading boxed case studies and study questions This book will be essential reading for upper level students of strategic studies war studies military history and international security **The Influence of Air Power Upon History** Walter J. Boyne,2005-01-01 The Influence of Air Power upon History is a thorough examination of how air power was applied from the very earliest days of the balloon down to the latest use of space technology Including both air and aerospace military power in his considerations Boyne a retired U S Air Force colonel surveys in a celebratory fashion the use of air power in international conflict His analysis is perfectly in line with the technological fetishism of most U S war planners almost invariably arguing that the imposition of superior air power is the most decisive factor in winning wars and even suggesting that the American war in Vietnam would have been won with just a little more bombing Chapters cover the development and deployment of air power doctrines by the United States its allies and its enemies in wars in which it was politically concerned *The Swiss Air Power* Fiona Lombardi,2007 Through this comprehensive inquiry the dissertation has highlighted a series of doctrinal inadequacies since the very beginning of air power in Switzerland and some deficiencies regarding current operational capabilities which must be rectified so as not to jeopardise homeland security in the long run Publisher *Monthly Catalogue, United States Public Documents* ,1992-11 **Air Power History** Sebastian Cox,Peter Gray,2013-11-05 he 20th century saw air power transformed from novelists fantasy into stark reality From string and canvas to precision weaponry and stealth air power has progressed to become not only the weapon of first political choice but often the only conceivable option This rapid development has given rise to considerable debate and controversy with those holding entrenched views rarely slow to shout their case Many myths have grown over the period ranging from the once much vaunted ability of air power to win wars alone through to its impact as a coercive tool This volume examines the theory and

practice of air power from its earliest inception The contributors have been drawn from academia and the military and represent some of the world s leading proponents on the subject All significant eras on air power employment are examined some are evidently turning points while others represent continuous development Perhaps more importantly the book highlights the areas that could be considered to be significant and invites the reader to enter the debate as to whether it constitutes a continuum a turning point or indeed a revolution [Air University Periodical Index](#) ,1958 **Air University Library Index to Military Periodicals** ,1996 [Educating Air Forces](#) Randall Wakelam,David Varey,2020-12-01 Compared to armies and navies which have existed as professional fighting services for centuries the technology that makes air forces possible is much newer As a result these services have had to quickly develop methods of preparing aviators to operate in conditions ranging from peace or routine security to full scale war The first book to address the history and scope of air power professionalization through learning programs [Educating Air Forces](#) offers valuable new insight into strategy and tactics worldwide Here a group of international experts examine the philosophies policies and practices of air service educational efforts in the United States France Italy Germany Australia Canada and the UK The contributors discuss the founding successes and failures of European air force learning programs between the Great War and World War II and explore how the tense Cold War political climate influenced the creation curriculum and results of various programs They also consider how educational programs are adapting to soldiers needs and the demands of modern warfare Featuring contributions from eminent scholars in the field this volume surveys the learning approaches globally employed by air forces in the past century and evaluates their effectiveness [Educating Air Forces](#) reveals how experiential learning and formal education are not only inextricably intertwined but also necessary to cope with advances in modern warfare

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