

# **The Paths of Heaven**

## **The Evolution of Airpower Theory**



*by*

**The School of Advanced Airpower Studies**

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**Air University Press  
Maxwell Air Force Base, Alabama**

# Paths Of Heaven The Evolution Of Airpower Theory

**Roman Wölfel**



## **Paths Of Heaven The Evolution Of Airpower Theory:**

**The Paths of Heaven :** ,1997      The Paths of Heaven Air Univeristy Press,2014-08-01      **The Paths Of Heaven: The Evolution Of Airpower Theory: The School Of Advanced Airpower Studies** Philip S. Meilinger,2000      **The Paths of Heaven - the Evolution of Airpower Theory** Phillip S. Meilinger,School of Advanced Airpower Studies,2012-08-01

Airpower is not widely understood Even though it has come to play an increasingly important role in both peace and war the basic concepts that define and govern airpower remain obscure to many people even to professional military officers This fact is largely due to fundamental differences of opinion as to whether or not the aircraft has altered the strategies of war or merely its tactics If the former then one can see airpower as a revolutionary leap along the continuum of war but if the latter then airpower is simply another weapon that joins the arsenal along with the rifle machine gun tank submarine and radio This book implicitly assumes that airpower has brought about a revolution in war It has altered virtually all aspects of war how it is fought by whom against whom and with what weapons Flowing from those factors have been changes in training organization administration command and control C 2 and doctrine War has been fundamentally transformed by the advent of the airplane Billy Mitchell defined airpower as the ability to do something in the air It consists of transporting all sorts of things by aircraft from one place to another 1 Two British air marshals Michael Armitage and Tony Mason more recently wrote that airpower is the ability to project military force by or from a platform in the third dimension above the surface of the earth 2 In truth both definitions though separated in time by almost six decades say much the same thing Interestingly however most observers go on to note that airpower includes far more than air vehicles it encompasses the personnel organization and infrastructure that are essential for the air vehicles to function On a broader scale it includes not only military forces but also the aviation industry including airline companies and aircraft engine manufacturers On an even broader plane airpower includes ideas ideas on how it should be employed Even before the aeroplane was invented people speculated theorized on how it could be used in war 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 3 Attempting to find the origins of airpower theory trace it expose it and then examine and explain it is no easy task Perhaps because airpower s history is short all of it can be contained in a single lifetime it lacks first rate narrative and analytical treatments in many areas As a result library shelves are crammed with books about the aerodynamics of flight technical eulogies to specific aircraft and boys adventure stories Less copious are good books on airpower history or biography For example after nearly five decades we still do not have an adequate account of American airpower in the Southwest Pacific theater during World War II or the role of George Kenney perhaps the best operationallevel air commander of the war Similarly we need a biography of one of the most brilliant thinkers and planners in US Air Force history the only airman ever to serve as Supreme Allied Commander Europe and the third youngest general in American history Lauris

Norstad Nor do we have a complete official history of airpower s employment in the war in Southeast Asia Much needs to be done to fill such gaps      **The Paths of Heaven** The School of Advanced Airpower Studies,2010-01-01 Airpower is not widely understood Even though it has come to play an increasingly important role in both peace and war the basic concepts that define and govern airpower remain obscure to many people even to professional military officers This fact is largely due to fundamental differences of opinion as to whether or not the aircraft has altered the strategies of war or merely its tactics If the former then one can see airpower as a revolutionary leap along the continuum of war but if the latter then airpower is simply another weapon that joins the arsenal along with the rifle machine gun tank submarine and radio This book implicitly assumes that airpower has brought about a revolution in war It has altered virtually all aspects of war how it is fought by whom against whom and with what weapons Flowing from those factors have been changes in training organization administration command and control C 2 and doctrine War has been fundamentally transformed by the advent of the airplane Billy Mitchell defined airpower as the ability to do something in the air It consists of transporting all sorts of things by aircraft from one place to another 1 Two British air marshals Michael Armitage and Tony Mason more recently wrote that airpower is the ability to project military force by or from a platform in the third dimension above the surface of the earth 2 In truth both definitions though separated in time by almost six decades say much the same thing Interestingly however most observers go on to note that airpower includes far more than air vehicles it encompasses the personnel organization and infrastructure that are essential for the air vehicles to function On a broader scale it includes not only military forces but also the aviation industry including airline companies and aircraft engine manufacturers On an even broader plane airpower includes ideas ideas on how it should be employed Even before the aeroplane was invented people speculated theorized on how it could be used in war 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 3 Attempting to find the origins of airpower theory trace it expose it and then examine and explain it is no easy task Perhaps because airpower s history is short all of it can be contained in a single lifetime it lacks first rate narrative and analytical treatments in many areas As a result library shelves are crammed with books about the aerodynamics of flight technical eulogies to specific aircraft and boys adventure stories Less copious are good books on airpower history or biography For example after nearly five decades we still do not have an adequate account of American airpower in the Southwest Pacific theater during World War II or the role of George Kenney perhaps the best operationallevel air commander of the war Similarly we need a biography of one of the most brilliant thinkers and planners in US Air Force history the only airman ever to serve as Supreme Allied Commander Europe and the third youngest general in American history Lauris Norstad Nor do we have a complete official history of airpower s employment in the war in Southeast Asia Much needs to be done to fill such gaps      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 **Airwar** Phillip S. Meilinger,2003 These essays cover a wide range of subjects and tell the story of air power s evolution over the past century

**How Effective is Strategic Bombing?** Gian P. Gentile,2001 As such it has for decades been used as an objective primary source and a guiding text a veritable Bible for historians of air power In this revisionist volume Gian Gentile examines afresh this influential document to reveal how it reflected to its very foundation the American conceptual approach

to strategic bombing In the process he exposes the survey as largely tautological and thereby throwing into question many of the central tenets of American air power philosophy and strategy

### **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 Influence of Air Power Upon History** Walter J. Boyne,2003-05-31

A comprehensive balanced overview of war in the air from a world renowned authority on aviation history and New York Times bestselling author Booklist The Influence of Air Power Upon History makes a startlingly new analysis of the far reaching implications flight has had on warfare politics diplomacy technology and mass culture Author Walter Boyne examines the application of air power from the very earliest days of the balloon down to the current era of space warfare and postulates some new and controversial theories that are certain to arouse comment Where Alfred Thayer Mahan s classic work The Influence of Sea Power Upon History catalogues the elements that made naval prowess a determinant of a nation s strength The Influence of Air Power Upon History traces the development of air power philosophy by examining the theory and practice of air power as it is exercised in both war and peace The author unerringly depicts the contributions made by the people and planes of each era some of them famous some virtually unknown but all vitally important He highlights the critical competence of individuals at every step of the way comparing the works of Giulio Douhet William Mitchell John Warden and others philosophically even as he compares the combat capabilities of leaders such as Hugh Trenchard Bomber Harris Herman Goering Curtis LeMay and Henry Hap Arnold Boyne s views on World War II bombings and air power in the Vietnam War will please many readers and perhaps shock many others The Influence of Air Power Upon History is an important book for the public and for the military and is destined to be hotly debated for years to come

### 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 [Reader's Guide to Military History](#)

Charles Messenger, 2013-10-31 This book contains some 600 entries on a range of topics from ancient Chinese warfare to late 20th century intervention operations Designed for a wide variety of users it encompasses general reviews of aspects of military organization and science as well as specific wars and conflicts The book examines naval and air warfare as well as significant individuals including commanders theorists and war leaders Each entry includes a listing of additional publications on the topic accompanied by an article discussing these publications with reference to their particular emphases strengths and limitations *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 *The Realities of Autonomous Weapons* Thomas Christian Bächle, Jascha Bareis, 2025-05-19 Available open access digitally under CC BY NC ND licence The realities of autonomous weapons are a complex blend of both existing military technologies and visions of their future capabilities The expected ramifications are profound and always point to the interplay between fact and fiction actual developments and creative imagination This book explores how these realities shape and become themselves shaped by popular culture regulatory and ethics debates military doctrines policies and research It examines phenomena ranging from film and artistic interpretations to warfare scenarios and weaponized artificial intelligence Intended for researchers including the disciplines of political and social sciences media culture and technology

policy makers educators and journalists this is a key resource that uncovers how autonomous weapons are constructed as both a technological reality and a futuristic possibility

**Hap Arnold and the Evolution of American Airpower** Dik Daso, 2022-09-20 Taught to fly by the Wright Brothers appointed the first and only five star general of the Air Force and remembered as the man who won World War II's air war Henry Harley Hap Arnold is one of the most significant figures in American aviation history Despite his legacy as an air pioneer little has been written about him In the thoroughly detailed **Hap Arnold and the Evolution of American Airpower** reprinted to celebrate the 75th anniversary of the United States Air Force biographer and former military officer Dik Alan Daso draws on primary sources like Arnold's personal papers and formerly declassified military documents to sketch out his incredible life and career Daso describes important technology institutions and individuals who influenced Arnold's decisions as a general and reveals how the peacetime experiences of World War II's foremost military airman shaped the evolution of American military aviation This biography captures the adventurous career dynamic personality and bold vision of the father of the Air Force

**The Air War in Ukraine** Dag Henriksen, Justin Bronk, 2024-08-01 This book provides a comprehensive account of the use of airpower in the first year of the Ukraine conflict Airpower has been central to political military and public debates from the outset of the Russo Ukrainian war After having started with whether the US and NATO should attempt to establish a No Fly Zone over Ukraine to protect the civilian population the international discussion soon focused on the underperformance of Russian airpower The fact that the initial contest for air superiority over Ukraine ended in an uneasy state of mutual denial came as a surprise to Western analysts who suspected Kyiv would fall within a relatively short period of time The surprise and relief that it did not only fueled urgent and ongoing discussions on how NATO nations could support the Ukrainian war effort Regardless of nationality age level of education or ethnicity the near daily footage of Russian missiles bombs and drones hitting residential areas and bombarding infrastructure to deprive an entire population of electricity and water has been emotionally imprinted on generations who have only known peace Why the Russians have used airpower with such brutality and how Ukraine and its allies have defended against this threat is an important topic to understand even outside a specialist military audience The aim of this book therefore is to provide an analysis on why the air war over Ukraine unfolded as it did during the first year of the war This book will be of much interest to students of air power military and strategic studies Russian and eastern European politics and International Relations

**Israel Yearbook on Human Rights, Volume 44 (2014)** Yoram Dinstein, 2021-10-11 The Israel Yearbook on Human Rights an annual published under the auspices of the Faculty of Law of Tel Aviv University since 1971 is devoted to publishing studies by distinguished scholars in Israel and other countries on human rights in peace and war with particular emphasis on problems relevant to the State of Israel and the Jewish people The Yearbook also incorporates documentary materials relating to Israel and the Administered Areas which are not otherwise available in English including summaries of judicial decisions compilations of legislative enactments and military



proclamations      Space Warfare John J. Klein, 2024-09-18 This book examines military space strategy within the context of the land and naval strategies of the past This second edition has been updated and revised with several new chapters included The book examines competition and conflict in the space domain including the methods used and sound counterstrategies to thwart a competitor's efforts Contrary to many spacepower pundits the book explains that neither is the space domain inherently offense dominant nor is there a first mover advantage when incorporating a sound space strategy Offering new insights into the nature of strategic competition in space this second edition leans heavily on the British maritime experience and the work of Julian Corbett to provide a strategic framework for understanding competition crisis and conflict in the space domain It also includes important concepts from leading theorists and strategists both past and present to amplify concepts and provide additional insights into the functioning of space strategy The book provides a foundational framework by underscoring that space strategy is shaped by the fundamental nature of all warfare along with the universal principles of strategy and the essential unity of all strategic experience Warfare is warfare no matter the domain of operations and consequently policymakers and military leaders can look to historical experience and knowledge of past strategic frameworks to help gain insights into the functioning of space warfare This book will appeal to students of spacepower defense and strategic studies and International Relations      **Beneficial Bombing** Mark Clodfelter, 2011-01-01

The Progressive Era marked by a desire for economic political and social reform ended for most Americans with the ugly reality and devastation of World War I Yet for Army Air Service officers the carnage and waste witnessed on the western front only served to spark a new progressive movement to reform war by relying on destructive technology as the instrument of change In **Beneficial Bombing** Mark Clodfelter describes how American airmen horrified by World War I's trench warfare turned to the progressive ideas of efficiency and economy in an effort to reform war itself with the heavy bomber as their solution to limiting the bloodshed They were convinced that the airplane used as a bombing platform offered the means to make wars less lethal than conflicts waged by armies or navies Clodfelter examines the progressive idealism that led to the creation of the U S Air Force and its doctrine that the finite destruction of precision bombing would end wars more quickly and with less suffering for each belligerent What is more his work shows how these progressive ideas emerged intact after World War II to become the foundation of modern U S Air Force doctrine Drawing on a wealth of archival material including critical documents unavailable to previous researchers Clodfelter presents the most complete analysis ever of the doctrinal development underpinning current U S Air Force notions about strategic bombing      Bombing the People Thomas

Hippler, 2013-08-14 Giulio Douhet is generally considered the world's most important air power theorist and this book offers the first comprehensive account of his air power concepts It ranges from 1884 when an air service was first implemented within the Italian military to the outbreak of the Second World War and explores the evolution and dissemination of Douhet's ideas in an international context It examines the impact of the Libyan war the First World War and Ethiopian war on the

development of Italian air power strategy It also addresses the issue of Douhet's advocacy of strategic bombing exploring why it was that Douhet became an advocate of city bombing the meaning and the limits of his core concept of command of the air and the mutual impact of air power military and naval thought It also takes into account alternatives to Douhetism such as the theories developed by Amedeo Mecozzi and others

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