

# **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

**Phillip S. Meilinger**



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

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

**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 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 Influence of Air Power Upon History* Walter J. Boyne, 2022-12-21 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

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## **Table of Contents Paths Of Heaven The Evolution Of Airpower Theory**

1. Understanding the eBook Paths Of Heaven The Evolution Of Airpower Theory
  - The Rise of Digital Reading Paths Of Heaven The Evolution Of Airpower Theory
  - Advantages of eBooks Over Traditional Books
2. Identifying Paths Of Heaven The Evolution Of Airpower Theory
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Paths Of Heaven The Evolution Of Airpower Theory
  - User-Friendly Interface
4. Exploring eBook Recommendations from Paths Of Heaven The Evolution Of Airpower Theory
  - Personalized Recommendations
  - Paths Of Heaven The Evolution Of Airpower Theory User Reviews and Ratings
  - Paths Of Heaven The Evolution Of Airpower Theory and Bestseller Lists
5. Accessing Paths Of Heaven The Evolution Of Airpower Theory Free and Paid eBooks

- Paths Of Heaven The Evolution Of Airpower Theory Public Domain eBooks
- Paths Of Heaven The Evolution Of Airpower Theory eBook Subscription Services
- Paths Of Heaven The Evolution Of Airpower Theory Budget-Friendly Options
- 6. Navigating Paths Of Heaven The Evolution Of Airpower Theory eBook Formats
  - ePub, PDF, MOBI, and More
  - Paths Of Heaven The Evolution Of Airpower Theory Compatibility with Devices
  - Paths Of Heaven The Evolution Of Airpower Theory Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Paths Of Heaven The Evolution Of Airpower Theory
  - Highlighting and Note-Taking Paths Of Heaven The Evolution Of Airpower Theory
  - Interactive Elements Paths Of Heaven The Evolution Of Airpower Theory
- 8. Staying Engaged with Paths Of Heaven The Evolution Of Airpower Theory
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Paths Of Heaven The Evolution Of Airpower Theory
- 9. Balancing eBooks and Physical Books Paths Of Heaven The Evolution Of Airpower Theory
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Paths Of Heaven The Evolution Of Airpower Theory
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Paths Of Heaven The Evolution Of Airpower Theory
  - Setting Reading Goals Paths Of Heaven The Evolution Of Airpower Theory
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Paths Of Heaven The Evolution Of Airpower Theory
  - Fact-Checking eBook Content of Paths Of Heaven The Evolution Of Airpower Theory
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

### **14. Embracing eBook Trends**

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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