

# Unmanned Combat Air Vehicle

Bill Yenne

*One Nation Under Drones* John E Jackson,2018-11-15 One Nation Under Drones is an interesting and informative review of how robotic and unmanned systems are impacting every aspect of American life, from how we fight our wars; to how we play; to how we grow our food. Edited by Professor John Jackson, who holds the E.A. Sperry Chair of Unmanned and Robotic Systems at the United States Naval War College, this highly readable book features chapters from a dozen experts, researchers, and operators of the sophisticated systems that have become ubiquitous across the nation and around the world. Press reports have focused primarily on Unmanned Aerial Vehicles, officially designated as UAVs, but more often referred to as drones. This book takes you behind the scenes and describes how Predators, Reapers, Scan Eagles and dozens of other pilotless aircraft have been used to fight the Global War on Terrorism. Although these systems seemed to emerge fully-developed into the skies above America's distant battlefields following the attacks of 9-11-2001, readers will discover how they actually trace their lineage to the First World War, when the automatic airplane/aerial torpedo, designed and built by the Sperry Gyroscope Company, made its first flight just over a century ago. Unmanned aircraft were used by various combatants in World War II, and took many forms: from converted manned bombers to inter-continental attacks on the American homeland by rice-paper balloons. Technology developed in the latter decades of the 20th century enabled crews stationed thousands of miles away to attack targets on remote battlefields. Such long-range and remote-controlled weapons have been extensively used, but are controversial from both legal and ethical stand-points. Chapters written by international law specialists and drone pilots with advanced education in ethics address these issues from both sides of the argument. The book also details how robotic systems are being used on land, in and below the seas, and in civilian applications such as driverless cars. Three dozen photographs display drones as small as an insect up to those as large as a 737 airliner. One Nation Under Drones covers such a wide array of topics that it will be of interest to everyone from the casual reader seeking to know more about these systems, to national security professionals, both in and out of uniform, who will be making decisions about their procurement and use in decades to come. This work will become the definitive volume on the subject, providing the facts and avoiding the hype about systems that have moved off the pages of science fiction and into the environment all around us.

**Unmanned Combat Aerial Vehicles: Evolution Or Potential Revolution?** ,1998 This paper will deal with developmental and operational concepts of arming unmanned aerial vehicles. More specifically, I wished to explore the concept of developing an unmanned combat aerial vehicle (UCAV) that will provide the capability to greatly expand the potential of air power as an instrument of national policy. I had believed that an academic and educated discussion of this topic was still relatively new territory for the USAF. As I began to study and research the issues involved, I found that in fact there is a tremendous amount of material already written about UAVs and associated theories on how to best develop an armed capability. I also found that most of these writings were very similar in nature. Invariably the paper or article would spend the majority of its content examining the historical development of UAVs. Then the remaining portion of the paper would be spent on either a very broad theoretical justification of the future need for UAVs or a very technical and intricate conclusion detailing specific UAV systems. I have tried to break free from that mold as I wrote this paper. The purpose of this paper is to offer a guide to help develop a coherent Air Force policy on a UAV capability. It is not meant to simply advocate a specific airframe or airframe design concept. It is meant to influence the reader on what I feel is the potential to dramatically affect the capabilities and nature of airpower.

X-47 Unmanned Combat Air Vehicle (Ucav) W. Zimmerman,2007-11-01 A unique keepsake with beautiful color pictures of the X-47 unmanned combat aircraft vehicle (UCAV), the Navy version of the Joint Unmanned Combat System (J-UCAS). Enjoy this look at the future of naval aviation!

*Unmanned Aerial Vehicles/Unmanned Combat Aerial Vehicles: Likely Missions and Challenges for the Policy-Relevant Future* Manjeet Singh Pardesi,2008-10 Analyzes the strategic implications of unmanned aerial vehicles (UAV) from a Singaporean point of view and concludes that UAV's lack of situational awareness and need for ever-larger amounts of communication bandwidth are major drawbacks that can be partially compensated for by various means. However, the author concludes that UAV's will complement, but not replace, manned aircraft.

**Unmanned Combat Air Systems in Future Warfare** C. Wills,2016-04-29 Control of the air is the foundation for all conventional military operations against an adversary with an air defence capability. In future warfare, will it be possible for Unmanned Combat Air Systems to undertake the tasks and accept most of the risks that, until now, have been the lot of military aviators?

Unmanned Combat Aerial Vehicles Dan Gettinger,2021-09 The field of unmanned combat aerial vehicles (UCAVs) is rapidly diversifying as an array of light, midsized, and heavy UCAVs and munitions enter the global marketplace. This has the potential to dramatically expand access to armed unmanned platforms and change the way unmanned aerial vehicles are used in combat. The influence of UCAVs on the conduct of war has already been felt in conflicts in the Caucasus, the Middle East and North Africa, where state and non-state actors have fielded a dizzying number of UCAVs from around the world. At the same time, advanced militaries are

beginning to equip UCAVs with increasingly sophisticated munitions, some of which are heavier and can fly farther than the types of weapons used by UCAVs in the past. The first in a new series of Strategic Handbooks from Harpia Publishing presents an essential guide to the world of armed unmanned aircraft. It features profiles of every unmanned combat aerial vehicles (UCAVs) currently in active military service or under development, as well as other unmanned aerial vehicles that could potentially be armed in the future.

*Unmanned aircraft systems new DOD programs can learn from past efforts to craft better and less risky acquisition strategies : report to the Committee on Armed Services, U.S. Senate. ,*

Unmanned Combat Air Vehicle (UCAV) Automated Refueling Simulation Edward G. Dickes, David R. Gingras, Randy S. Hultberg, Stefan J. Kloc, 2002 An experimental investigation was conducted in the Langley Full Scale Tunnel (LFST) to collect the data necessary to model the effects of the wake of a KC-135 tanker on the aerodynamics of a similar scale UCAV-like aircraft (ICE101 configuration) in a refueling scenario. The primary efforts of this task were to measure the aerodynamic forces and moments on the ICE101 model in the presence of the KC-135 wake and then create aerodynamic increments for use in taking and formation simulation. A secondary undertaking was to conduct a flow survey behind the KC-135 model to quantify its wake characteristics.

**Rapid Prototyping-unmanned Combat Air Vehicle (UCAV)/sensorcraft** Charles Tyler, Richard J. Schwartz, Gary Fleming, Sergey Fonov, Air Force Research Laboratory (Wright-Patterson Air Force Base, Ohio). Air Vehicles Directorate, Langley Research Center, United States. Air Force, 2008 To characterize and improve upon aircraft designs in an expedient and efficient manner, it is imperative to generate approaches for rapidly assessing new aircraft designs. Recent technological advancements have enabled faster and more accurate assessment in three specific areas: computational fluid dynamics (CFD) modeling, rapid prototyping (RP), and experimental global measurements. The Air Force Research Laboratory Air Vehicles Directorate (AFRL/RB) initiated a joint computational/experimental ground testing program to investigate and analyze the flow field of the unmanned combat air vehicle (UCAV) X45-A as well as a strike tanker configuration. The test program used various rapid prototyping manufacturing technologies to fabricate models for ground testing; implemented innovative, nonintrusive measurement techniques; and compared CFD results with experimental data acquired from ground tests.--Abstract.

*The Last Manned Fighter - Replacing Manned Fighters with Unmanned Combat Air Vehicles* Robert B. Trsek, 2012-08-22 This paper addresses the question, can and should the Air Force pursue an unmanned multirole fighter to replace manned systems? Unmanned aircraft systems have demonstrated enormous intelligence, surveillance, and reconnaissance (ISR) capabilities in both flexibility and persistence. Current and emerging technology may permit unmanned fighters to replace conventional multirole aircraft in the face of high endurance missions, evolving threat systems, and political pressure to preserve human life. This research is framed in the context of a specialized weapon in military aviation: an unmanned multirole fighter capable of replacing manned systems and their respective missions. This paper gives a brief history of unmanned aerial vehicles and their employment as weapons to demonstrate the evolution from ISR platform to unmanned combat air vehicle and then evolves into two main sections of “can we” and “should we” pursue this avenue of development. The primary means of answering the research question is both technical and philosophical. Before being able to answer if the Air Force should pursue an unmanned fighter, it is necessary to determine if it is technically feasible for such a system. A methodical analysis of mission subsets and common tasks that fighters currently perform and how those tasks might be performed in an unmanned vehicle are examined to substantiate technical capability. Inherent to this discussion are the obvious questions of remote piloting versus autonomous operations, command and control, and weaknesses that may be presented to an adversary. Modern media, political costs of human life, single points of failure, command and control, and monetary costs are then addressed to develop the subjective main point of pursuing acquisition. The range and endurance of unmanned combat air vehicle (UCAV) fighters offer persistence and attractive options in a world of growing antiaccess strategies. They offer advantages in performance, altitude, and employment without the limitations of human physiology. UCAV fighters vi deny the political use of prisoners of war by our adversaries and preserve the tactical knowledge of our pilots at home. The research finds there are no technological barriers that prohibit the design and use of UCAV fighters on a large scale. There are anticipated limitations in bandwidth and concern for performance during within-visual-range maneuvering if man-in-the-loop is the solution to command and control. Ultimately, UCAV fighters are not a panacea but offer the presence of force in a threat environment that 20 years from now will be extremely lethal. The costs and risks associated with UCAV fighters are significant but surmountable. The single point of failure may be in our command and control through the radio frequency spectrum. Autonomy provides a solution but is incompatible with US ascription to the law of armed conflict and its mandates. If sufficient bandwidth can be secured and the control of remote vehicles can be assured, there are immense dollar and political costs to be saved in their employment. In the context of future threat systems and antiaccess strategies, the Air Force would be foolish not to pursue UCAV fighter technology.

**Strategic Implementation of Navy and Marine Corps Unmanned Combat Air Vehicles with Respect to Military Transformation** John J. Klein, Defense Technical Information Center (U.S.), Naval War College (U.S.), 2002

Unmanned combat air vehicles (UCAVs) have taken on a greater strategic role in the U.S. Armed Forces, as evidenced by recent operations of the Predator unmanned aerial vehicle firing Hellfire missiles against Taliban and Al Qaeda forces in Afghanistan. Although no naval UCAVs currently exist, U.S. Navy and Marine Corps forces will incorporate and rely upon these vehicles during future combat. For this reason, the Navy and Marine Corps must decide the fundamental strategy and capabilities for these vehicles to avoid using unmanned vehicles where manned aircraft might be more appropriate. Even though UCAVs promise to perform some missions more effectively and less expensively than manned aircraft, they should not be used in combat just because they can, but only if they provide a significant operational or strategic advantage.

Unmanned Combat Air Systems Norman Friedman, 2010 The U.S. Navy's Unmanned Combat Air System aircraft currently in development will transform naval aviation, extending its reach while dramatically reducing its cost, according to naval weapons expert Norman Friedman. In this his latest weapons book, he describes the new X-47B and shows how these new aircraft offer tactics that manned aircraft cannot duplicate. He calls the X-47B a natural extension of the evolving networked form of drone warfare that can be used for a variety of missions, including intelligence, surveillance and reconnaissance, and time sensitive targeting. Friedman makes the important point that an unmanned attack aircraft can also be seen as an extension of some current missiles that interact with remote human controllers. The book includes an extensive appendix describing the world's military unmanned aircraft.

Artificial Intelligence Vehicle Fouad Sabry, 2023-07-03 What Is Artificial Intelligence Vehicle An unmanned aerial vehicle (UAV) that is used for intelligence, surveillance, target acquisition, and reconnaissance and carries aircraft ordnance such as missiles, anti-tank guided missiles (ATGMs), and/or bombs in hardpoints for drone strikes is referred to as an unmanned combat aerial vehicle (UCAV), also known as a combat drone, and colloquially shortened as drone or battlefield UAV. Another name for a UCAV is a combat drone. These drones are often under the direct control of a human operator in real time and exhibit varied degrees of autonomy. Unlike unmanned surveillance and reconnaissance aerial vehicles, unmanned combat aerial vehicles (UCAVs) can be employed for both drone strikes and gathering intelligence on the battlefield. How You Will Benefit (I) Insights, and validations about the following topics: Chapter 1: Unmanned combat aerial vehicle Chapter 2: General Atomics MQ-1 Predator Chapter 3: History of unmanned combat aerial vehicles Chapter 4: List of unmanned aerial vehicles Chapter 5: TAI Anka Chapter 6: NESCOM Burraq Chapter 7: CAIG Wing Loong Chapter 8: Drone warfare Chapter 9: Unmanned aerial vehicles in the United States military Chapter 10: Baykar Bayraktar TB2 (II) Answering the public top questions about artificial intelligence vehicle. (III) Real world examples for the usage of artificial intelligence vehicle in many fields. (IV) 17 appendices to explain, briefly, 266 emerging technologies in each industry to have 360-degree full understanding of artificial intelligence vehicle' technologies. Who This Book Is For Professionals, undergraduate and graduate students, enthusiasts, hobbyists, and those who want to go beyond basic knowledge or information for any kind of artificial intelligence vehicle.

Review of ONR's Uninhabited Combat Air Vehicles Program National Research Council, Commission on Physical Sciences, Mathematics, and Applications, Naval Studies Board, Committee for the Review of ONR's Uninhabited Combat Air Vehicles Program, 2000-08-24 Joint Vision 2010<sup>1</sup> addresses the need for achieving military dominance through the application of new operational concepts. For the Department of the Navy, future operational concepts will hinge on a continuance of forward yet unobtrusive presence and the capability to influence events ashore as required. This capability will be enabled by the development and insertion into the forces of new technologies for providing command, control, and surveillance; battlespace dominance; power projection; and force sustainment. For example, unmanned aerial vehicles (UAVs) have recently proven to be valuable operational platforms for providing tactical intelligence by surveillance of the battlefield. To support naval force objectives, the Office of Naval Research (ONR) has established a research program within the Strike Technology Division (Code 351) of the Naval Expeditionary Warfare Science and Technology Department aimed at expanding the operational capabilities of UAVs to include not only surveillance and reconnaissance, but strike and logistics missions as well. This new class of autonomous vehicles, known as uninhabited combat air vehicles (UCAVs), is foreseen as being intelligent, recoverable, and highly maneuverable in support of future naval operations. Review of ONR'S Uninhabited Combat Air Vehicles Program evaluates ONR's UCAV technology activities, including its vision documents and its science and technology roadmap (in areas of vehicle dynamics, communications, sensors, and autonomous agents) against criteria that would be selected by the committee, such as the relevance for meeting future naval priorities, the cost and time scale for its utilization, duplication of effort, and scientific and technical quality.

Drone Strike! Bill Yenne, 2017 By 1999, few people outside the military recognized the potential of armed, unmanned flying vehicles. In today's digital world, Unmanned Combat Aerial vehicles, or UCAVs, form a vital part of U.S. military strike forces and are controlled electronically from halfway around the world.--back cover.

Unmanned Combat Aerial Vehicles School of Advanced Air and Space Studies, 2015-04-09 There will likely be political, moral, and social implications of UCAV employment that strategists and military commanders will

need to pay attention to as they craft strategies for future conflict. UCAVs are a very appealing option for the politician faced with use-of-force decisions due to reduced forward basing requirements and the possibility of zero friendly operator casualties. The flexibility of the weapon system offers the politician a seemingly high degree of control over the process of war. Together, these advantages may make a politician more inclined to use force first rather than last. In the moral realm, UCAVs are neither immoral nor illegal simply because risk to one of the combatants is removed. Additionally, notions of chivalry and fairness are not good standards by which to judge this technology. The social impact of widespread UCAV employment on the operator is an area of further concern. Remote-control war, however, does not change the underlying assumptions that have been the basis for the military ethos in the past. The final chapter highlights the dynamic between political, moral, and social issues as it addresses a range of possible unintended consequences resulting from extensive UCAV employment. Ultimately, the purpose of this thesis is to provide strategists greater clarity on the political, moral, and social issues surrounding UCAV employment. Doing so allows them to more effectively address, both objectively and subjectively, the implications of this new technology.

**Unmanning** Katherine Chandler,2020-03-13 Unmanning studies the conditions that create unmanned platforms in the United States through a genealogy of experimental, pilotless planes flown between 1936 and 1992. Rather than treating the drone as a result of the war on terror, this book examines contemporary targeted killing through a series of failed experiments to develop unmanned flight in the twentieth century. These experiments are tied to histories of global control, cybernetics, racism and colonialism. Drone crashes and failures call attention to the significance of human action in making technopolitics that comes to be opposed to man and the paradoxes at their basis.

*The Drone Debate* Avery Plaw,Matthew S. Fricker,Carlos Colon,2015-12-24 The Drone Debate offers a thorough investigation of the where, why, how, and when of the U.S.'s use of UAVs. Beginning with a historical overview of the use of drones in warfare, it then addresses whether targeted killing operations are strategically wise, whether they are permissible under international law, and the related ethical issues. It also looks at the political factors behind the use of drones, including domestic and global attitudes toward their use and potential issues of proliferation and escalation. Finally, the use of drones by other countries, such as Israel and China, is examined. Each chapter features a case study that highlights particular incidents and patterns of operation in specific regions, including Yemen, Somalia, Pakistan, and Libya and strike types (signature strikes, personality strikes, etc.).

Autonomous Vehicles in Support of Naval Operations National Research Council,Division on Engineering and Physical Sciences,Naval Studies Board,Committee on Autonomous Vehicles in Support of Naval Operations,2005-08-05 Autonomous vehicles (AVs) have been used in military operations for more than 60 years, with torpedoes, cruise missiles, satellites, and target drones being early examples.<sup>1</sup> They have also been widely used in the civilian sector-for example, in the disposal of explosives, for work and measurement in radioactive environments, by various offshore industries for both creating and maintaining undersea facilities, for atmospheric and undersea research, and by industry in automated and robotic manufacturing. Recent military experiences with AVs have consistently demonstrated their value in a wide range of missions, and anticipated developments of AVs hold promise for increasingly significant roles in future naval operations. Advances in AV capabilities are enabled (and limited) by progress in the technologies of computing and robotics, navigation, communications and networking, power sources and propulsion, and materials. Autonomous Vehicles in Support of Naval Operations is a forward-looking discussion of the naval operational environment and vision for the Navy and Marine Corps and of naval mission needs and potential applications and limitations of AVs. This report considers the potential of AVs for naval operations, operational needs and technology issues, and opportunities for improved operations.

Uncrewed Vehicle Fouad Sabry,2022-08-09 What Is Uncrewed Vehicle A vehicle that does not have any people on board is referred to as an uncrewed vehicle or an unmanned vehicle. Unmanned vehicles may be remote-controlled or remote-guided vehicles, or they can be autonomous vehicles that have the ability to sense their surroundings and navigate independently. How You Will Benefit (I) Insights, and validations about the following topics: Chapter 1: Uncrewed vehicle Chapter 2: Autonomous robot Chapter 3: Unmanned aerial vehicle Chapter 4: Unmanned combat aerial vehicle Chapter 5: Micro air vehicle Chapter 6: Remote-control vehicle Chapter 7: Autonomous underwater vehicle Chapter 8: Unmanned ground vehicle Chapter 9: History of unmanned aerial vehicles Chapter 10: History of unmanned combat aerial vehicles Chapter 11: Unmanned underwater vehicle Chapter 12: List of unmanned aerial vehicles Chapter 13: Autonomous logistics Chapter 14: Association for Unmanned Vehicle Systems International Chapter 15: Guidance, navigation, and control Chapter 16: Autonomous aircraft Chapter 17: Loitering munition Chapter 18: List of unmanned aerial vehicle applications Chapter 19: USV Maxlimer Chapter 20: CSSC unmanned vehicles Chapter 21: XTDT unmanned vehicles (II) Answering the public top questions about uncrewed vehicle. (III) Real world examples for the usage of uncrewed vehicle in many fields. (IV) 17 appendices to explain, briefly, 266 emerging technologies in each industry to

have 360-degree full understanding of uncrewed vehicle' technologies. Who This Book Is For Professionals, undergraduate and graduate students, enthusiasts, hobbyists, and those who want to go beyond basic knowledge or information for any kind of uncrewed vehicle.

Uncover the mysteries within Explore with is enigmatic creation, Embark on a Mystery with **Unmanned Combat Air Vehicle** . This downloadable ebook, shrouded in suspense, is available in a PDF format ( Download in PDF: \*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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