

# UNMANNED AERIAL VEHICLES

Robotic Air Warfare 1917–2007



STEVEN J ZALOGA

ILLUSTRATED BY IAN PALMER

# Unmanned Aerial Vehicles Robotic Air Warfare 1917 2007 New Vanguard

**Laurence R. Newcome**



## **Unmanned Aerial Vehicles Robotic Air Warfare 1917 2007 New Vanguard:**

*Unmanned Aerial Vehicles* Steven J. Zaloga, 2011-07-20 Unmanned aerial vehicles UAVs are the most dynamic field of aerospace technology and have only emerged from the shadows recently despite having been in use for decades After some limited use in World War II UAVs emerged as substitutes for manned reconnaissance aircraft in missions deemed too dangerous to risk an aircrew This book examines the development of UAV technology and speculates on its future potential Packed with rare recently declassified photographs and detailed full colour cutaways this title goes on to investigate the deployment of UAVs from early Israeli airforce use to their current role over Iraq and Afghanistan today     **Unmanned**

**Aerial Vehicles** Steven J. Zaloga, 2011-07-20 Unmanned aerial vehicles UAVs are the most dynamic field of aerospace technology and have only emerged from the shadows recently despite having been in use for decades After some limited use in World War II UAVs emerged as substitutes for manned reconnaissance aircraft in missions deemed too dangerous to risk an aircrew This book examines the development of UAV technology and speculates on its future potential Packed with rare recently declassified photographs and detailed full colour cutaways this title goes on to investigate the deployment of UAVs from early Israeli airforce use to their current role over Iraq and Afghanistan today     On Integrating Unmanned Aircraft

Systems into the National Airspace System Konstantinos Dalamagkidis, Kimon P. Valavanis, Les A. Piegl, 2011-10-05 This book presents in a comprehensive way current unmanned aviation regulation airworthiness certification special aircraft categories pilot certification federal aviation requirements operation rules airspace classes and regulation development models It discusses unmanned aircraft systems levels of safety derived mathematically based on the corresponding levels for manned aviation It provides an overview of the history and current status of UAS airworthiness and operational regulation worldwide Existing regulations have been developed considering the need for a complete regulatory framework for UAS It focuses on UAS safety assessment and functional requirements achieved in terms of defining an Equivalent Level of Safety or ELOS with that of manned aviation specifying what the ELOS requirement entails for UAS regulations To accomplish this the safety performance of manned aviation is first evaluated followed by a novel model to derive reliability requirements for achieving target levels of safety TLS for ground impact and mid air collision accidents It discusses elements of a viable roadmap leading to UAS integration in to the NAS For this second edition of the book almost all chapters include major updates and corrections There is also a new appendix chapter     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 Characteristics often attributed to the drone including machine like control enmity and remoteness are achieved by displacements between humans and machines that shape a mediated theater of war Rather than primarily 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 The human machine and media parts of drone aircraft are

organized to make an ostensibly not human framework for war that disavows its political underpinnings as technological advance. 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.

**US-China Strategic Competition** Muhammad Ali Baig, 2025-02-18. The book maps the strategic competition between the U.S. and China, its history, and the contemporary outlook of their armed forces. It analyses the wars fought by each of these forces, their military operations, operations other than war, and draws up a comparative analysis between the military doctrines of both nations. The author examines the implications of American and Chinese military doctrine and the varying degrees of cooperation, competition, and potential conflict in the Western Pacific. Finally, the book argues for possibilities of cooperation between the two superpowers and suggests ways of minimising potential future conflict. The volume will be of great interest to scholars and researchers of international relations, military and strategic studies, and Asian studies.

**Aviation News**, 2009-07. *Military Robots and Drones* Paul J. Springer, 2013-01-09. This book provides an insightful introduction to the most important field of military innovation for the 21st century: robotic and drone weaponry. For centuries, warring nations have sought to lower the risk to highly vulnerable humans on the battlefield, typically by providing protective armor, making soldiers' positions more difficult to detect, or by striking from locations safe from retaliation. Autonomous weaponry has now reached the point where robotic systems can perform some key tasks that previously required direct human involvement. *Military Robots and Drones: A Reference Handbook* introduces the lay person to a highly specialized topic, providing the foundation necessary for further study in this field. Appropriate for high school and college level students, as well as general readers with an interest in the topic, the author explains the many military applications of robotics, as well as current limitations and disadvantages. The book also provides a general history of robotic warfare, examines key individuals, agencies, documents, and models, discusses controversies within the field of robotic and drone warfare, such as ethical considerations, and explains how increased reliance on robotics has affected the structure and strategy of the military.

**Unmanned Aerial Vehicles: Breakthroughs in Research and Practice** Management Association, Information Resources, 2019-05-03. First used in military applications, unmanned aerial vehicles are becoming an integral aspect of modern society and are expanding into the commercial, scientific, recreational, agricultural, and surveillance sectors. With the increasing use of these drones by government officials, business professionals, and civilians, more research is needed to understand their complexity, both in design and function. *Unmanned Aerial Vehicles: Breakthroughs in Research and Practice* is a critical source of academic knowledge on the design, construction, and maintenance of drones, as well as their applications across all aspects of society. Highlighting a range of pertinent topics, such as intelligent systems, artificial intelligence, and situation awareness, this publication is an ideal reference source for military consultants, military personnel, business professionals, operation managers, surveillance companies, agriculturalists, policymakers, government officials, law

enforcement IT professionals academicians researchers and graduate level students      **Terrorist and Insurgent**

**Unmanned Aerial Vehicles** Strategic Studies Strategic Studies Institute, U. S. Army U.S. Army War College

Press, 2016-07-09 The work is divided into an introduction to the topical area a UAV historical overview and discussion of present use by the U S military a chronological narrative of terrorist and insurgent UAV use and attempted use from 1994 through 2015 the ensuing baselines and trending identified and the foreseen potentials derived from these trends based upon tactical operational and strategic influencing scenarios and the resulting military implications and suggested policy responses this will entail The analysis not only has immediate value for Army force protection and counterterrorism programs but also for research being conducted on projected robot on human force on force engagements in insurgency type environments as well as strategic considerations related to emerging drone swarm concepts and the changing character of warfare as robot Landpower technologies evolve and are increasingly fielded      **Unmanned Aviation** Laurence R.

Newcome, 2004 Newcome traces the family tree of unmanned aircraft all the way back to their roots as aerial torpedoes which were the equivalent of today's cruise missiles He discusses the work of leading aerospace pioneers whose efforts in the area of unmanned aviation have largely been ignored by history      **Drone Warfare** Dave Sloggett, 2014-04-30 The

Development of Unmanned Aerial Conflict will examine the development and use of aerial drones a topical subject that has not been written on to date An unmanned aerial vehicle commonly known as a drone is an aircraft without a human pilot on board Its flight is either controlled autonomously by computers in the vehicle or under the remote control of a navigator or pilot on the ground or in another vehicle Blending history with current and recent operations Dr Sloggett will set out to put the record straight In some quarters of the press drones get a bad press and there has been much controversy over their deployment some of which is not deserved The book reveals the history of unmanned aircraft their recent development and why they have emerged onto the scene Why did the US for example really invest highly in drone technology When did all that start What barriers had to be overcome What was there before drones arrived The book also analyses their operations in Iraq in Gulf War Two and more recently Afghanistan What roles did drones play Where they successful What new developments emerged during operations Did they save lives Further to this is a detailed look at case studies where they have been used trying to remove some of the incorrect reporting putting the record straight based on evidence How many have been shot down and where The book then looks at strategic uses of drones at present Iran is being monitored they are already in action over parts of Africa what are other countries doing China Iran Turkey The RAF's use of drones their deployment and operations is considered along with important questions such as where this goes for the future What are the issues Will all air forces be drone based in the future What other applications may arise in the civilian market      Unmanned Aerial

Vehicles David Glade, 2000 The development of uninhabited aerial vehicles UAVs could potentially revolutionize how military force is used in the future While the early operational experiences with UAVs show great promise their full range of

capabilities is largely unknown. However, it is clear that these technologies will enable military forces to use aerospace power more efficiently, which means at lower cost and with less risk to the humans who pilot aircraft. The broader question is the wisdom of using unmanned aerial vehicles for employing lethal force and, in particular, which air power missions are best accomplished by uninhabited, piloted, and autonomous vehicles. The corollary is to examine the essential roles of human pilots or operators in aerospace operations in the twenty-first century. Since it is common to draw distinctions between vehicles with an on-board pilot, vehicles with off-board operators, and autonomous vehicles, this study explores the essential role of pilots and contrasts it with the roles of remotely piloted and autonomous vehicles. The assumption is that piloted, remotely piloted, and autonomous vehicles have advantages and disadvantages in military operations and that these vary in strategic significance for different levels of conflict. Since it is essential for the U.S. defense establishment to consider the strategic and technological implications of these types of aerial vehicles, this study is devoted to addressing the issues raised by the new generation of aerial vehicles.

**UAVs: Unmanned Aerial Vehicles** John Hamilton, 2012-01-01. This title explores the development and use of unmanned aerial vehicles or remotely piloted aircraft, more commonly known as drones. Readers will follow the history of the origins and development of the incredible military technology behind UAVs such as the Predator Drone, the Wasp Micro Air Vehicle, the Global Hawk unmanned aerial vehicle, the hand-launched remote control RQ 11 Raven for field troops, and the long-endurance hunter-killer MQ 9 Reaper. Chapters detail their military and performance specifications as well as their features and advantages in the field, including their cameras, sensors, control systems, and weapons, and their pilots often sitting on the other side of the world. Readers will also learn about their use in significant combat and surveillance missions throughout the Middle East and in other countries. Includes spec boxes and other text features. Aligned to Common Core Standards and correlated to state standards. A D Xtreme is an imprint of Abdo Publishing, a division of ABDO.

**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

**Defense Science Board Study** Office of the Under Secretary of Defense, 2014-08-04 Lessons from recent combat experiences in Kosovo Afghanistan and Iraq have shown that UAVs can provide vastly improved acquisition and more rapid dissemination of Intelligence Surveillance and Reconnaissance ISR data They are one of the principal contributors to successful outcomes for the United States in these campaigns The benefits and promise offered by UAVs in surveillance targeting and attack have captured the attention of senior military and civilian officials in the Defense Department DoD members of Congress and the public alike Indeed these recent combat operations appear to indicate that unmanned air systems have at last come of age There is no longer any question of the technical viability and operational utility of UAVs The success of UAVs in recent conflicts represents a historic opportunity to exploit the transformational capabilities inherent in UAVs Uninhabited Combat Aerial Vehicles UCAVs Transformation is not a term it is a philosophy Transformation is a predisposition to exploring adaptations of existing and new systems doctrine and organizations True transformation is not the result of a one time improvement but of sustained and determined effort For example the American forces used multiple Predator UAVs during Operation Iraqi Freedom OIF to provide a far more comprehensive operational perspective across the theater to the Combined Air Operations Center by integrating the Predator common operating picture with the Falcon View mission planning system There is now another mission imperative and that is distance During this review the new concept of Global Persistence Surveillance has specifically focused on the contributions of UAVs and UCAVs During OIF Predator UAVs also enabled time critical targeting via streaming video to strike platforms Likewise one Global Hawk in the Iraqi theater from 8 March 03 to 23 April 03 accounted for 55% of the Time Sensitive Targets generated to kill air defense equipment In 16 missions Global Hawk located 13 Surface to Air Missile SAM batteries 50 SAM launchers over 70 SAM transport vehicles and over 300 tanks Notwithstanding the success of UAVs in OIF UAVs have not been fully embedded in current Concepts of

Operations CONOPS or valued with effects driven methodology Future UAV programs must be conceived with this mix in mind i e predefined operational concepts and effects driven methodology UAVs are ideal systems to support the emerging joint character and the asymmetric nature of warfare The Task Force feels it is time for DoD and the Services to move forward and make UAVs and UCAVs an integral part of the force structure not an additional asset To do so requires appropriate planning appropriate budgeting and continued management attention of DoD and Service leadership The DoD and the Services have already started to integrate UAVs into their force structure plans Currently there are UAV plans and roadmaps within the DoD and Services and the FY 04 budget also shows substantial increases in funding of UAV programs While progress has been made in planning and funding for UAVs the Services need to move from deconfliction to integration to interdependence UAV capabilities should be assessed in the larger context of the Global Persistent Surveillance UAVs can ideally complement current architectures for Future Imagery Architecture New Imagery System and Space Based Radar This study identifies steps the Department of Defense and Armed Services can take to field a robust UAV and UCAV capability The recommendations in his executive summary indicate the Task Force s top level recommendations Additional recommendations can be found in the body of the report The Task Force s findings and recommendations fall into eight subject areas and are described in this executive summary in order of importance

**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      **Unmanned Aerial Vehicles in Perspective** United States Air Force Scientific Advisory Board, United States Air Force Scientific Advis, 2014-07-25 Unmanned aerial vehicles UAVs are not new to aviation the military or the Air Force AF The first UAV was developed and operated by Samuel Pierpont Langley in 1896 During World War I two separate efforts were conducted to develop UAVs for surface attack While neither effort was finished in time to see combat the Sperry Torpedo and Kettering Bug both flew in 1918 as unmanned automatically controlled bombers UAV development stalled until World War II when development was again too late to contribute to the war The BQM 34 was developed in the 1950s and used operationally as a photoreconnaissance platform More recently UAVs have developed along two very distinct paths Vehicles like Helios and Global Hawk have been engineered for extreme range and altitude making them large In contrast the Black Widow which has a wingspan of only six inches was developed to be portable and travel to places where humans cannot go The UAV is not new and past experience can be used to chart the course for future development Today the revolution in technologies such as signal and image processing and sensors can be leveraged to permit UAVs to assume a larger role in Air Force missions The Air Force is off to a good start as an operational user of UAVs Ten types of UAVs were used in OPERATION IRAQI FREEDOM These UAVs performed traditional intelligence surveillance and reconnaissance functions as well as a range of more novel missions One of the UAV s most used and desired attributes was persistence The marriage of Predator to the Hellfire missile resulted in an unprecedented capability to hold targets at risk with a level of endurance that made it difficult for the adversary to hide Special Forces used portable UAVs to scan their areas of operations enabling them to achieve tactical surprise      **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 orUCAVs form a vital part of U S military strike forces and are controlled electronically from halfway around the world back cover      [A Timeline of Military Robots and Drones](#) Tim Cooke, 2017-09-15 The first drones only appeared in the 1960s but now they are flown by every branch of the military Learn how drone pilots can locate and destroy targets on the other side of the world and discover how the remarkable rise of military robots will change warfare for ever      **Unmanned Aerial Vehicles (UAVs) in combat** William Kealey, 2014-02-04 Professorial Dissertation from the year 2012 in the subject Politics Topic Peace and Conflict Security grade 78 University of Lincoln language English abstract The increasing use of unmanned aerial vehicles UAVs has proven to be a catalyst for contentious dialogue Valavanis et al 2008 3 between those whom acknowledge the suggested advantages of deploying UAVs and those who disagree on the basis that there are unjustifiable moral implications especially in the context of warfare Boyle M 2013 21 I remain impartial with regard to these arguments however full justification shall be provided in due course as to why This paper therefore shall be written from the perspective of my own To accurately evaluate these contrasting arguments we must first identify the meaning of morality in the context of warfare Devlin P 1965 acknowledges that definitively stating the confines of morality remains a hugely

subjective issue and so for simplicity one broadly suited definition shall be accepted throughout the scope of this work I believe Meisels T s 2012 932 notion whereby the laws of warfare such as those presented in the Geneva conventions and the theory of just war which establishes humane rules of conducting warfare are inextricably linked with the notion of preserving morality during war This perception on morality will therefore provide the parameters for the entirety of this essay to be argued from and so whether warfare is moral or not shall be decided by the extent to which war conforms with both the Geneva conventions and more importantly the theory of just war

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