Bruce Larrimer

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.

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!

X-45: Uninhabited Combat Air Vehicle Hugh Harkins,2013-09-28 The X-45 was born from the studies of a number of programs in the 1990's aimed at producing technology that could be incorporated into a viable uninhabited air vehicle designed to autonomously conduct a range of operational missions including strike and suppression of enemy air defences. The successful conduct of the X-45 program paved the way for the new generation of Uninhabited Combat Air Vehicles being flight tested in the early part of this second decade of the 21st Century

including the Boeing Phantom Ray, which is a direct descendant of the X-45 Advanced Technology Demonstrators of the previous decade.

Unmanned Combat Aerial Vehicles Michael L. Bartley, 2002 Military operations since Desert Storm have taken an almost ultramodern style of warfare -- a step away from the notion of sequential operations of the past, through the successful concept of parallel warfare during the Gulf War, toward a transformational strategy of network-centric warfare (NCW) now being adopted by the Department of Defense. The key technologies associated with NCW are information superiority, stealth, precision engagement, and a combination of manned and unmanned aerial platforms. Recent events around the world demonstrating the unique capabilities of the Predator Unmanned Aerial Vehicle have triggered a revolution in unmanned aerospace vehicle research. Proponents, including the President of the United States, are touting the Unmanned Combat Aerial Vehicle (UCAV) as the next generation bomber and fighter platform. This paper investigates the feasibility of an unmanned aerial vehicle as an alternative in close air support (CAS) operations. Can an unmanned airplane engage targets in close proximity to friendly troops with the same or better results than a manned aircraft? To better understand the military applications of UCAVs conducting CAS, several areas must be considered -- doctrine, cost, survivability, distinct capabilities, and demonstrated accuracy. Unlike the aerospace missions of strategic attack, or the suppression of enemy air defenses (SEAD), CAS is unique, in that airborne operations are conducted in close proximity to friendly forces. This is problematic when addressing the issue of fratricide and fly and decide type decisions. While these issues are certainly unique to the CAS mission, human ingenuity is a much stronger force when faced with necessity. A stealthy UCAV armed with internal weapons offers increased capabilities in persistence, survivability, and responsiveness over a manned aircraft.

The Last Manned Fighter Robert B. Trsek,2008-05 This work 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.

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.

Beyond Tube-and-Wing Bruce Larrimer, 2020-06-15

Energiya-Buran Bart Hendrickx,Bert Vis,2007-12-05 This absorbing book describes the long development of the Soviet space shuttle system, its infrastructure and the space agency's plans to follow up the first historic unmanned mission. The book includes comparisons with the American shuttle system and offers accounts of the Soviet test pilots chosen for training to fly the system, and the operational, political and engineering problems that finally sealed the fate of Buran and ultimately of NASA's Shuttle fleet.

Aircraft Design Daniel P. Raymer,2006 Winner of the Summerfield Book Award Winner of the Aviation-Space Writers Association Award of Excellence. --Over 30,000 copies sold, consistently the top-selling AIAA textbook title This highly regarded textbook presents the entire process of aircraft conceptual designfrom requirements definition to initial sizing, configuration layout, analysis, sizing, and trade studiesin the same manner seen in industry aircraft design groups. Interesting and easy to read, the book has more than 800 pages of design methods, illustrations, tips, explanations, and equations, and extensive appendices with key data essential to design. It is the required design text at numerous universities around the world, and is a favorite of practicing design engineers.

Fixed Wing Flight United States. Department of the Army,1968

Flying The Big Jets (4th Edition) Stanley
Stewart,2014-09-30 Flying the Big Jets presents the facts that
people want to know about the world of the big jets. How does a
large aircraft fly? How long is the take-off run at maximum weight?
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sophistication of the 'glass cockpit' in preparation for the pilot's seat on a Boeing 777 flight from London to Boston. Flying the Big Jets is a comprehensive book that reveals as never before the every-day working environment of the modern long-haul airline pilot. Written by a pilot with over 15,000 flying hours on heavy jets during a 30-year career in commercial aviation, this title is a comprehensive text book taking the reader into the 'glass cockpit' of a Boeing 777. It is also a guide to the principles of flight, the art of navigation and meteorology, and an appreciation of the role played by Air Traffic Control in modern airline operations. An absorbing read for that next long-haul flight. WINGSPAN

Stryker Combat Vehicles Gordon L. Rottman,2012-09-20 The eight-wheeled (8x8) Stryker combat light armored vehicle was adopted by the US Army in 2002 to provide a comparatively rapidly deployable contingency force with armor protection, tactical mobility, and heavy firepower, as well as advanced command, control communications, computer, intelligence, surveillance, and reconnaissance (C4ISR) capabilities. Covering the first new US Army release since the M1 Abrams MBT, this book details the conception, ongoing development and deployment of one of the most highly anticipated new AFVs in recent years, including its service in Iraq and the ensuing controversy surrounding the Stryker's varying successes.

An Introduction to Shipbuilding Bethlehem Steel Company,1942

Moon Shot Alan Shepard, Deke Slayton, Jay Barbree, 2011-05-03 New York Times bestseller for fans of First Man: A "breathtaking" insider history of NASA's space program—from astronauts Alan Shepard and Deke Slayton (Entertainment Weekly). On October 4, 1957, the Soviet Union launched Sputnik I, and the space race was born. Desperate to beat the Russians into space, NASA put together a crew of the nation's most daring test pilots: the seven men who were to lead America to the moon. The first into space was Alan Shepard; the

last was Deke Slayton, whose irregular heartbeat kept him grounded until 1975. They spent the 1960s at the forefront of NASA's effort to conquer space, and Moon Shot is their inside account of what many call the twentieth century's greatest feat—landing humans on another world. Collaborating with NBC's veteran space reporter Jay Barbree, Shepard and Slayton narrate in gripping detail the story of America's space exploration from the time of Shepard's first flight until he and eleven others had walked on the moon.

Securing the Future of U.S. Air Transportation National Research Council, Transportation Research Board, Studies and Information Services, Division on Engineering and Physical Sciences, Aeronautics and Space Engineering Board, Committee on Aeronautics Research and Technology for Vision 2050, 2003-12-18 As recently as the summer of 2001, many travelers were dreading air transportation because of extensive delays associated with undercapacity of the system. That all changed on 9/11, and demand for air transportation has not yet returned to peak levels. Most U.S. airlines continue to struggle for survival, and some have filed for bankruptcy. The situation makes it difficult to argue that strong action is urgently needed to avert a crisis of undercapacity in the air transportation system. This report assesses the visions and goals for U.S. civil aviation and technology goals for the year 2050.

Achtung-Panzer! Heinz Guderian,1995 This is one of the most significant military books of the twentieth century. By an outstanding soldier of independent mind, it pushed forward the evolution of land warfare and was directly responsible for German armoured supremacy in the early years of the Second World War. Published in 1937, the result of 15 years of careful study since his days on the German General Staff in the First World War, Guderian's book argued, quite clearly, how vital the proper use of tanks and supporting armoured vehicles would be in the conduct of a future war. When that war came, just two years later, he

proved it, leading his Panzers with distinction in the Polish, French and Russian campaigns. Panzer warfare had come of age, exactly as he had forecast. This first English translation of Heinz Guderian's classic book - used as a textbook by Panzer officers in the war - has an introduction and extensive background notes by the modern English historian Paul Harris.

Bell Aircraft Since 1935 A. J. Pelletier,1992-01 This text looks at the history of the aircraft manufacturers Bell, whose family of helicopters have been produced in their thousands for miltary and civil operations worldwide. It also deals with the more unorthadox aircraft built before and during World War II.

<u>Folding the Universe</u> Peter Engel,1989 An artfully designed and illustrated guide offers an in-depth essay on the history origami and its mathematical, spatial, and creative properties, and instructions for making a kangaroo with joey, a knight on horseback, and other wonders.

Innovation in Flight Joseph R. Chambers, 2005 Sir George Cayley (1773-1857). Charles Harvard Gibbs-Smith, 1968

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