

WHAT IS AIR SUPERIORITY?

Air Superiority is a fundamental pillar of American combat power. With it, the joint force has freedom of action, freedom of access and freedom of operations. Without it, our nation's forces would have to radically change how they go to war.

AIR SUPERIORITY REQUIRES A FAMILY OF CAPABILITIES POWERED BY AIRMEN



WHAT DOES IT ENABLE?



**HOMELAND
DEFENSE**



**PARTNER AND
ALLY SUPPORT**



**ACCESS TO
GLOBAL
COMMONS**



**OPERATIONS
IN ENEMY
TERRITORY**



**FREEDOM OF
ACTION FOR
SURFACE &
AIR OPS**

Air Superiority Operations

Michal Rosen-Zvi



Air Superiority Operations:

Air Superiority Operations J. R. Walker, 1989 Another excellent addition to this series Very detailed and not for the amateur Annotation copyrighted by Book News Inc Portland OR *Air Superiority Operations* Avm Jr Walker, This balanced study by a leading authority in the field of fighter operations and tactics explains the complexities of the air superiority battle not only to the junior officer but to a wide range of readers who have personal or professional interest in t Air Superiority In World War II And Korea [Illustrated Edition] Richard H. Kohn, Joseph P. Harahan, 2015-11-06 Includes over 20 illustrations In November 1981 Lt Gen Hans H Driessnack Assistant Vice Chief of Staff asked the Historical Program to assemble a small number of retired officers for a group oral history interview General Driessnack believed that in reminiscing together these officers would recall incidents and experiences that might otherwise go unrecorded by exchanging ideas and questioning each other in effect interviewing each other they would recall material that would be of interest and importance to the Air Force today General Driessnack also suggested selecting retired officers from the senior statesman conference a gathering every spring at which retired four star generals are briefed on Air Force issues and then discuss them with contemporary Air Force leaders The result is the following interview The four participants Gen James Ferguson Gen Robert M Lee Gen William W Mommyer and Lt Gen Elwood R Pete Quesada gathered on May 21 1982 around a table in the Vandenberg room at the Bolling Air Force Base Officers Club For approximately two and one half hours they responded to questions sent to them earlier and discussed air superiority in World War II and Korea Their discussions ranged far and wide flying in the pre World War II Army Air Corps campaigning in North Africa and Western Europe in World War II planning and participating in the Normandy invasion using secret intelligence supplied by Ultra struggling to codify tactical air doctrine in the post war years fighting the air battle in Korea and thinking about the general problem of air superiority throughout their careers This collective interview is not history but the source material on which history rests it is a memoir a first hand account by air leaders who flew fought and commanded tactical air forces in combat *Case studies in the achievement of air superiority ,*

Case Studies in the Achievement of Air Superiority Benjamin Franklin Cooling (III), 1994 **Doctrine for Joint Operations** United States. Joint Chiefs of Staff, 1995 **Case Studies in the Achievement of Air Superiority** Office of Air Force History, U.S. Air Force, 2015-01-29 The historical roots of air superiority date to the First World War which marked the emergence of the fighter airplane offensive and defensive fighter doctrine and the trained fighter pilot By the end of the war the Imperial German Air Service had been decisively outfought and though occasional bitter air combat still occurred the Allied air arms were free to harass and attack German ground forces wherever and whenever they chose After the war there were defense commentators who injudiciously predicted not for the last time that the era of dogfighting was over higher aircraft speeds would make maneuvering air combat a thing of the past Instead the lesson of the importance of air superiority was rediscovered in the skies over Spain and confirmed again throughout the Second World War Having

tenaciously wrested air superiority from the Luftwaffe the Allies in 1941 went on to achieve genuine air supremacy a situation acknowledged by General Dwight Eisenhower who riding through Normandy after D Day remarked to his son If I didn't have air supremacy I wouldn't be here Sadly many of these lessons were lost in the post Second World War era when technology advances supersonic design theory nuclear weapons and robot aircraft seemed to signal an end to the traditional air to air fighter even though the experience of the Korean War demonstrated that transonic jet combat was not merely possible but the new normative form of air warfare Indeed the fighter airplane underwent a dramatic transformation into a nuclear armed strike aircraft now that popular wisdom held that surface to air and air to air missiles foreshadowed the end of the era of classic air combat That prediction collapsed in the face of the Vietnam war and the experiences of the Middle East The 1970s witnessed both a revolution in fighter aircraft design spawned by the technology advances of the 1960s and 1970s and a return to basics in both design fundamentals and the training of fighter pilots Operations in the Falklands war over the Bekaa Valley and most recently during DESERT STORM confirmed not only the benefits of this revolution and rediscovery but also the enduring importance of air superiority During DESERT STORM which occurred while this book was in press the airmen of the United States Air Force established air superiority over Iraq and occupied Kuwait from the outset of the war defeating the Iraqi air force both in the air and on the ground By so doing they created the conditions essential for decisive air war Strike and support aircraft and helicopters could go about their duties without fear of molestation from enemy aircraft Iraq's forces pinned in place were denied any respite from punishing air attack Because of coalition air supremacy coalition land operations could be undertaken with an assurance speed and rapidity of pace never before seen in warfare Bluntly stated the Gulf war demonstrated that with air superiority General Norman Schwarzkopf could undertake his famed Hail Mary play Lacking air superiority Iraq paid dearly Its III Corps became vulnerable to air attack stuck in a traffic jam out of Kuwait City on the Highway of Death Air superiority like democracy itself must be constantly secured and renewed In recognition of this the United States Air Force is developing the F 22 Advanced Tactical Fighter to ensure that America retains its technological edge well into the 21st century The case studies in this volume encompassing several major air to air battles eloquently demonstrate why the quest for air superiority remains critically important for today's Air Force

The Counterair Companion James Michael Holmes, 1995 The early proponents of air power believed that with control of the air airmen would make surface operations impossible and irrelevant In the years since they made these predictions aircraft have gained capabilities far beyond those predicted by early advocates However airmen are still searching for a strategy that will guarantee the results their predecessors promised Instead of replacing surface forces air power has become their indispensable partner Air power contributes to the security mobility and firepower of joint forces but its primary contribution may be air superiority For the last 40 years United States military forces have maintained almost total control of the air Air supremacy does not itself destroy or defeat the bulk of enemy forces but it allows conditions in which joint military forces

may do so by providing freedom of action and strategic flexibility | role in American joint operations Abstract The Counterair Companion: A Short Guide to Air Superiority for Joint Force Commanders ,1995 The early proponents of air power believed that with control of the air airmen would make surface operations impossible and irrelevant In the years since they made these predictions aircraft have gained capabilities far beyond those predicted by early advocates However airmen are still searching for a strategy that will guarantee the results their predecessors promised Instead of replacing surface forces air power has become their indispensable partner Air power contributes to the security mobility and firepower of joint forces but its primary contribution may be air superiority For the last 40 years United States military forces have maintained almost total control of the air Air supremacy does not itself destroy or defeat the bulk of enemy forces but it allows conditions in which joint military forces may do so by providing freedom of action and strategic flexibility | role in American joint operations RWJ **Basic Principles of Air Warfare** ,1927 **Joint Force Quarterly** ,1995 **Case Studies in the Achievement of Air Superiority** Air Force U. S. Air Force, Benjamin Franklin Cooling, 2005-01-01 Writing in 1978 General William W Momyer former Commander of the Tactical Air Command and a distinguished veteran fighter pilot stated that The contest for air superiority is the most important contest of all for no other operations can be sustained if this battle is lost To win it we must have the best equipment the best tactics the freedom to use them and the best pilots Certainly the wide ranging case studies examined in this book confirm this message as do more contemporary experiences from the Falklands War the Bekaa Valley and most recently the Gulf War of 1991 The historical roots of air superiority date to the First World War which marked the emergence of the fighter airplane offensive and defensive fighter doctrine and the trained fighter pilot By the end of the war the Imperial German Air Service had been decisively outfought and though occasional bitter air combat still occurred the Allied air arms were free to harass and attack German ground forces wherever and whenever they chose After the war there were defense commentators who injudiciously predicted not for the last time that the era of dogfighting was over higher aircraft speeds would make maneuvering air combat a thing of the past Instead the lesson of the importance of air superiority was rediscovered in the skies over Spain and confirmed again throughout the Second World War Having tenaciously wrested air superiority from the Luftwaffe the Allies in 1941 went on to achieve genuine air supremacy a situation acknowledged by General Dwight Eisenhower who riding through Normandy after D Day remarked to his son If I didnt have air supremacy I wouldnt be here Sadly many of these lessons were lost in the post Second World War era when technology advances supersonic design theory nuclear weapons and robot aircraft seemed to signal an end to the traditional air to air fighter even though the experience of the Korean War demonstrated that transonic jet combat was not merely possible but the new normative form of air warfare Indeed the fighter airplane underwent a dramatic transformation into a nuclear armed strike aircraft now that popular wisdom held that surface to air and air to air missiles foreshadowed the end of the era of classic air combat That prediction collapsed in the face of the Vietnam war and the

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Futrell,1991 *Counterair Operations - Air Force Doctrine Document (AFDD) 3-01* U. S. Force,2012-11-07 The mission of the United States Air Force is to fly fight and win in air space and cyberspace A crucial part of achieving that mission involves obtaining and maintaining superiority in the air domain That domain defined for the first time in this publication is the area beginning at the Earth s surface where the atmosphere has a major effect on the movement maneuver and employment of joint forces Within that domain forces exercise degrees of control or levels of influence characterized as parity superiority or supremacy The US has enjoyed at least air superiority in all conflicts since the Korean War The US will probably retain that superiority in today s ongoing conflicts but the prospect of near peer competitors in the not too distant future raise the possibility of air parity a condition in the air battle in which one force does not have air superiority over others or even conceding superiority to the adversary if Air Force forces are not properly employed Our possession of air superiority helps enable joint forces to dominate adversary operations in all domains and to achieve a wide range of cross domain effects Unless we can freely maneuver in the air while denying the enemy the ability to do the same we do not have superiority Therefore this publication addresses how the commander of Air Force forces can best employ his assets within a joint force to achieve control in the air domain to enable the overall joint force effort Counterair is more than just force protection or air and missile defense It also includes offensive actions against an enemy s capabilities allowing us to seize the initiative and force the adversary into a defensive posture Furthermore counterair is executed by more than just air assets Counterair is a joint multinational and interagency team effort comprising a combination of command and control systems intelligence surveillance and reconnaissance systems aircraft and missile systems in air to air and air to ground roles and

surface to air defense weapons The effect of air superiority is not normally an end unto itself Air superiority provides enormous military advantages allowing the joint force greater freedom of action to carry out its assigned missions freedom to attack while minimizing its vulnerability to enemy detection and attack freedom from attack The success of any major air land or maritime operation may depend on the degree of air superiority achieved This Air Force doctrine document provides guidance for designing planning integrating coordinating executing and assessing counterair operations It provides operational doctrine to gain and maintain control of the air As such it focuses on how air forces can be organized and employed to successfully conduct counterair operations

Yom Kippur War 1973 Shlomo Aloni, 2024-08-15 The story of the hardest fought air war of the jet era where highly trained Israeli air forces almost met their match against Egypt and Syria's high tech MiGs and missiles The Yom Kippur War or October War of 1973 was perhaps the most intensive and savage air war in history It pitted more than 300 Israeli combat aircraft including modern US built Phantoms and Skyhawks against nearly 1 000 advanced Soviet built jets from Egypt Iraq Libya and Syria During a war lasting just 19 days each side flew an average of more than 1 000 sorties per day and both sides lost around one third of their aircraft Veteran Middle East aviation historian Shlomo Aloni explains how in contrast to the striking success of the Six Day War Israel's prewar plans failed in 1973 Since the Six Day War Israel had modernized its air force and planned in detail for this air war But the IDF underestimated the effectiveness of the latest Soviet air defense technology and doctrine particularly the new SA 6 missile system With archive photos spectacular combat artwork 3D diagrams and maps this book unravels the complexities of one of the fiercest air wars of modern times and explains how Israel's eventual victory was achieved against the odds and at a grave cost

China's Aerospace Strategy, 2013-02-15 China has emerged as a major regional power and has clear aspirations to be a global power in the not too distant future Comprehensive military modernisation programs sustained economic scientific and technological developments have substantially elevated China's international profile For the past three decades China has been modernising its strategic weaponry and enhancing the capabilities of its nuclear warheads It has also been developing new and complex military platforms that would be of great value to joint operations warfare The decade from 2011 through 2020 will prove critical to the PLA as it attempts to integrate many new and complex platforms and to adopt modern operational concepts including network centric warfare China's air force is in the midst of a transformation A decade ago it was an antiquated service equipped almost exclusively with weapons based on 1950s era Soviet designs and operated by personnel with questionable training according to outdated employment concepts Today the PLAAF appears to be on its way to becoming a modern highly capable air force for the 21st century The PLA Air Force has continued expanding its inventory of long range advanced SAM systems and now possesses one of the largest such forces in the world The January 2011 flight test of China's next generation fighter prototype the J 20 highlights China's ambition to produce a fighter aircraft that incorporates stealth attributes advanced avionics and super cruise capable engines over the next several years China is

upgrading its B 6 bomber fleet with a new longer range variant that will be armed with a new long range cruise missile China's aviation industry is developing several types of airborne early warning and control system AWACS aircraft These include the KJ 200 based on the Y 8 airframe for AWACS as well as intelligence collection and maritime surveillance and the KJ 2000 based on a modified Russian IL 76 airframe China can decisively defeat India in any nuclear confrontation but is currently unable to match the IAF in any conventional conflict specifically along the border region of the Himalayas Also the IAF has greater experience than PLAAF in actual combat operations with its many conflicts India is gradually building powerful military capabilities in tune with its expanding geopolitical interests even as the eastern and western fronts are being strengthened to deter the twin Pakistan China threat IAF is on the path to transform into a true aerospace power with the capability to rapidly deploy and operate at great distances As for the two front challenge apart from progressively basing Sukhoi 30MKI fighters and missile squadrons in the two theatres the plan also includes upgrading the airfields and advanced landing grounds in the sectors in order to give both defensive and offensive options It is important for India to realise the relevance of Chinese achievements in space technologies and to critically view and analyse Chinese achievements in the area of manned space missions In order to achieve further success in the space arena developments in cryogenic technology are important for India These should be pursued in order to develop the capability of launching 4 5 ton satellites which will help in achieving a greater commercial edge Programmes like moon and mars missions using robotic technologies are also important in order to know more about the nature of resources especially minerals available on these bodies and undertaking their mining It is also important to work towards launching satellites for India's armed forces which will help gain an advantage over adversaries The book is an attempt to analyse the strategic importance of rising economic political and military stature of China with a view to understand its regional and global implications in a new world order As a rational actor in a chaotic world China will defend its security interests at all costs Besides undertaking a comprehensive modernisation of its armed forces China is developing a series of offensive space capabilities while advocating the peaceful use of outer space The book will be of immense value not only to the readers of the countries in the immediate neighbourhood of China but to the strategic community across the globe since rise of China and other major Asian players including India will shape the strategic international environment in the decades to come during this century It is hoped that the book will contribute to the understanding of the growing importance of integration of air and space and the fact that aerospace has truly become the new theatre of war and thereby establishing a new milestone in mankind's history of warfare The unifying space dimension will remain the single most important source for information and communication which can be used in multiple forms Hence China's aerospace strategy and its implications for India assume greater military importance

Encyclopedia of Military Science G. Kurt Piehler, 2013-07-24 The Encyclopedia of Military Science provides a comprehensive ready reference on the organization traditions training purpose and functions of today's military Entries in

this four volume work include coverage of the duties responsibilities and authority of military personnel and an understanding of strategies and tactics of the modern military and how they interface with political social legal economic and technological factors A large component is devoted to issues of leadership group dynamics motivation problem solving and decision making in the military context Finally this work also covers recent American military history since the end of the Cold War with a special emphasis on peacekeeping and peacemaking operations the First Persian Gulf War the events surrounding 9 11 and the wars in Afghanistan and Iraq and how the military has been changing in relation to these events Click here to read an article on The Daily Beast by Encyclopedia editor G Kurt Piehler Why Don t We Build Statues For Our War Heroes Anymore *Antiair Warfare* United States. Marine Corps,1980 **FMFM.** , Assault Support United States. Marine Corps,1979

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