

ANTI AIR

EDWARD B. WESTERMANN

🔗 **FLAK** EDWARD B. WESTERMANN, 2001 Air raid sirens wail, searchlight beams flash across the sky, and the night is aflame with tracer fire and aerial explosions, as Allied bombers and German anti-aircraft units duel in the thundering darkness. Such cinematic scenes, played out with increasing frequency as World War II ground to a close, were more than mere stock material for movie melodramas. As Edward Westermann reveals, they point to a key but largely unappreciated aspect of the German war effort that has yet to get its full due. Long the neglected stepchild in studies of World War II air campaigns, German flak or anti-aircraft units have been frequently dismissed by American, British, and German historians (and by veterans of the European air war) as ineffective weapons that wasted valuable materiel and personnel resources desperately needed elsewhere by the Third Reich. Westermann emphatically disagrees with that view and makes a convincing case for the significant contributions made by the entire range of German anti-aircraft defenses. During the Allied air campaigns against the Third Reich, well over a million tons of bombs were dropped upon the German homeland, killing nearly 300,000 civilians, wounding another 780,000, and destroying more than 3,500,000 industrial and residential structures. Not surprisingly, that aerial Armageddon has inspired countless studies of both the victorious Allied bombing offensive and the ultimately doomed Luftwaffe defense of its own skies. By contrast, flak units have virtually been ignored, despite the fact that they employed more than a million men and women, were responsible for more than half of all Allied aircraft losses, forced Allied bombers to fly far above high-accuracy altitudes, and thus allowed Germany to hold out far longer than it might have otherwise. Westermann's definitive study sheds new light on every facet of the development and organization of this vital defense arm, including

🔗 **NAVAL ANTI-AIRCRAFT GUNS AND GUNNERY** NORMAN FRIEDMAN, 2014-02-15 This book does for naval anti-aircraft defense what Friedman's Naval Firepower did for surface gunnery. It makes a highly complex but historically crucial subject accessible to the layman. It traces the growing aerial threat from its inception in WWI and the response of each of the major navies down to the end of WWII, highlighting in particular the underestimated danger from dive-bombing. The work considers what effective AA fire-control required, and how well each navy's systems actually worked, analyzing the weapons, how they were placed on ships, and how this reflected the tactical concepts of naval AA defense. All important guns, directors and electronics are represented in close-up photos and drawings, and lengthy appendices detail their technical data. It is, simply, another superb contribution to naval technical history by its leading exponent.

🔗 **NOTES ON ANTI-AIRCRAFT GUNS** ARMY WAR COLLEGE (U.S.), 1917

🔗 **BOOF OVER BRITAIN** GREAT BRITAIN. WAR OFFICE, GREAT BRITAIN. MINISTRY OF INFORMATION, 1943 BERETNING OM DET ENGELSKE LUFTVÆBENS ARTILLERI'S INDSATS UNDER THE BATTLE OF BRITAIN.

🔗 **RED SAM** STEVEN J. ZALOGA, 2011-12-20 The Russian SA-2, nicknamed "Red SAM," is history's dominant anti-aircraft missile. In 1960 it famously downed Gary Powers' U-2 spyplane, and two years later it was one of the missiles deployed during the Cuban Missile Crisis, which almost sparked a nuclear showdown between America and the USSR. The SA-2 was also deployed in Vietnam, North Korea, Egypt, and even the Gulf War. Using photographs, color artwork, and rare accounts from the weapon's designers, Steven J. Zaloga examines the missile's development, linking this to its massive impact on Cold War air campaigns, and investigates the design changes that have helped the SA-2 stand the test of time.

🔗 **SELF-PROPELLED ANTI-AIRCRAFT GUNS OF THE SOVIET UNION** MIKE GUARDIA, 2015-05-20 During the Cold War, the Soviet Army was perhaps the deadliest fighting force the world had ever seen. Within its mechanized forces, the Soviets accomplished something that their American counterparts never could – the fielding of a self-propelled anti-aircraft gun (SPAAG) that could keep pace with its heavy armored formations. This volume examines the design, development and operational history of the Soviet Union's Cold War SPAAGs: the ZSU-37, ZSU-57-2, the infamous ZSU-23-4, and the 9K22 Tunguska (better known by its NATO reporting name: SA-19 'Grison'). These vehicles excelled in their air defense role, and many US Department of Defense publications were dedicated to examining how to defeat the ZSU and its radar tracking system. These formidable weapons equipped Russian forces in Afghanistan and were encountered again in Iraq during Operation Desert Storm and Iraqi Freedom, cementing their place in the landscape of modern warfare. This study explores the full history of the SPAAGs with revealing photographs, technical illustrations and detailed analysis.

🔗 **NAVAL ANTI-AIRCRAFT GUNS AND GUNNERY** NORMAN FRIEDMAN, 2014-01-21 This book does for naval anti-aircraft defence what the author's Naval Firepower did for surface gunnery. It makes a highly complex but historically crucial subject accessible to the layman. It chronicles the growing aerial threat from its inception in the First World War and the response of each of the major navies down to the end of the Second, highlighting in particular the widely underestimated danger from dive-bombing. Central to this discussion is an analysis of what effective AA fire-control required, and how well each navy's systems actually worked. It also

TAKES IN THE WEAPONS THEMSELVES, HOW THEY WERE PLACED ON SHIPS, AND HOW THIS REFLECTED THE TACTICAL CONCEPTS OF NAVAL AA DEFENCE. AS WOULD BE EXPECTED FROM ANY FRIEDMAN BOOK, IT OFFERS STRIKING INSIGHTS [?] [?] [?] HE ARGUES, FOR EXAMPLE, THAT THE ROYAL NAVY, SO OFTEN CRITICISED FOR LACK OF 'AIR-MINDEDNESS', WAS ACTUALLY THE MOST ALERT TO THE THREAT, BUT THAT ITS SYSTEMS WERE INADEQUATE NOT BECAUSE THEY WERE TOO PRIMITIVE BUT BECAUSE THEY TRIED TO ACHIEVE TOO MUCH.??THE BOOK SUMMARISES THE EXPERIENCE OF W/W2, PARTICULARLY IN THEATRES WHERE THE AERIAL DANGER WAS GREATEST, AND A CONCLUDING CHAPTER LOOKS AT POST-1945 DEVELOPMENTS THAT DREW ON WARTIME LESSONS. ALL IMPORTANT GUNS, DIRECTORS AND ELECTRONICS ARE REPRESENTED IN CLOSE-UP PHOTOS AND DRAWINGS, AND LENGTHY APPENDICES DETAIL THEIR TECHNICAL DATA. IT IS, SIMPLY, ANOTHER SUPERB CONTRIBUTION TO NAVAL TECHNICAL HISTORY BY ITS LEADING EXPONENT.

[?] **RED TRACERS; THE 482ND ANTI-AIRCRAFT ARTILLERY IN WWII** WALT CROSS,2016-04-30 A WORLD WAR II UNIT HISTORY OF THE 482ND AAA AW (SP) BATTALION. BATTERIES OF THIS UNIT FOUGHT IN BASTOGNE AND ST. VITH DURING THE BATTLE OF THE BULGE. IT ALSO DEFENDED THE REMAGEN BRIDGEHEAD OVER THE RHINE.

[?] **ANTI-AIRCRAFT ARTILLERY** IAN V. HOGG,2002 ANTI-AIRCRAFT ARTILLERY TELLS OF THE DEVELOPMENT AND OPERATIONAL USE OF THIS WEAPON FROM ITS INCEPTION AS AN ANTI-BALLOON DEFENCE AT THE END OF THE NINETEENTH CENTURY TO THE PRESENT. COVERING WEAPONS OF ALL THE MAJOR ARMIES AND PROVIDING AN ENGROSSING OVERVIEW OF THE USE, DEVELOPMENT AND EFFECTIVENESS OF THE ANTI-AIRCRAFT GUN, THIS IS AN IDEAL AND CONCISE HISTORY OF A FASCINATING WEAPON.

[?] **NOTES ON ANTI-AIRCRAFT GUNS** ARMY WAR COLLEGE (U.S.),1917

[?] **NOTES ON ANTI-AIRCRAFT GUNS** ARMY WAR COLLEGE (U S),2018-02-05 THIS WORK HAS BEEN SELECTED BY SCHOLARS AS BEING CULTURALLY IMPORTANT, AND IS PART OF THE KNOWLEDGE BASE OF CIVILIZATION AS WE KNOW IT. THIS WORK WAS REPRODUCED FROM THE ORIGINAL ARTIFACT, AND REMAINS AS TRUE TO THE ORIGINAL WORK AS POSSIBLE. THEREFORE, YOU WILL SEE THE ORIGINAL COPYRIGHT REFERENCES, LIBRARY STAMPS (AS MOST OF THESE WORKS HAVE BEEN HOUSED IN OUR MOST IMPORTANT LIBRARIES AROUND THE WORLD), AND OTHER NOTATIONS IN THE WORK. THIS WORK IS IN THE PUBLIC DOMAIN IN THE UNITED STATES OF AMERICA, AND POSSIBLY OTHER NATIONS. WITHIN THE UNITED STATES, YOU MAY FREELY COPY AND DISTRIBUTE THIS WORK, AS NO ENTITY (INDIVIDUAL OR CORPORATE) HAS A COPYRIGHT ON THE BODY OF THE WORK. AS A REPRODUCTION OF A HISTORICAL ARTIFACT, THIS WORK MAY CONTAIN MISSING OR BLURRED PAGES, POOR PICTURES, ERRANT MARKS, ETC. SCHOLARS BELIEVE, AND WE CONCUR, THAT THIS WORK IS IMPORTANT ENOUGH TO BE PRESERVED, REPRODUCED, AND MADE GENERALLY AVAILABLE TO THE PUBLIC. WE APPRECIATE YOUR SUPPORT OF THE PRESERVATION PROCESS, AND THANK YOU FOR BEING AN IMPORTANT PART OF KEEPING THIS KNOWLEDGE ALIVE AND RELEVANT.

[?] **ANTI-AIRCRAFT** IAN V. HOGG,1978 LUFTFORSVARETS HISTORIE FRA NEDSKYDNING AF OBSERVATIONSBALLONER UNDER NAPOLEONSKRIGENE TIL I DAG, HVOR LUFTFORSVARET OMFATTER ARTILLERI, JAGERFLY, BALLONER, RAKETTER, MISSILER, VARSLINGSSYSTEMER OG MEGET MERE.

[?] **ARCHIE IN THE A.E.F.** CHARLES EDWARD KIRKPATRICK,1984

[?] **GERMAN FLAK DEFENCES VS ALLIED HEAVY BOMBERS** DONALD NIJBOER,2019-10-31 SINCE THE END OF WORLD WAR II, THE STRATEGIC BOMBING OF GERMANY HAS INSPIRED NUMEROUS STUDIES, COUNTLESS BOOKS AND SEVERAL DOCUMENTARY FILMS, AND IT IS NOT SURPRISING. WITH MORE THAN ONE MILLION TONS OF BOMBS DROPPED, CLOSE TO 300,000 CIVILIANS KILLED, 700,000 WOUNDED AND IN EXCESS OF 3,500,000 INDUSTRIAL AND RESIDENTIAL STRUCTURES DESTROYED, THE ALLIED BOMBER OFFENSIVE WAS INDUSTRIAL WAR ON A GRAND SCALE. THE AIR BATTLE THAT RAGED OVER GERMANY HAS OFTEN BEEN DESCRIBED AS A BATTLE BETWEEN ALLIED AND GERMAN FIGHTERS BUT WHAT HAS BEEN FREQUENTLY MISSED BY HISTORIANS ON ALL SIDES IS THE IMPACT OF GERMAN ANTI-AIRCRAFT DEFENCES (FLAK). THOUGH OFTEN DISMISSED AS INEFFECTIVE AND A WASTE OF VALUABLE MATERIAL AND PERSONNEL, THE GERMAN FLAK ARM MADE A MAJOR CONTRIBUTION TO THE DEFENCE OF THE THIRD REICH – AT LEAST HALF OF THE AMERICAN AIRCRAFT SHOT DOWN OVER GERMANY FELL TO FLAK, AND ACCORDING TO THE RAF OFFICIAL HISTORY, IT WAS ESTIMATED THAT FLAK ACCOUNTED FOR 1229 OF 3302 AIRCRAFT LOST BY BOMBER COMMAND BETWEEN 1942 AND APRIL 1945. ADDITIONALLY, THE STRATEGIC ROLE OF FLAK EXTENDED BEYOND SIMPLY SHOOTING DOWN AIRCRAFT – ITS OTHER, MORE IMPORTANT TASK WAS TO FORCE BOMBERS TO DROP THEIR ORDNANCE SOONER OR FROM A HIGHER ALTITUDE, THUS REDUCING BOMBING ACCURACY. BOTH THESE ROLES ARE EXPLORED IN DEPTH IN THIS DETAILED STUDY OF THE GERMAN FLAK DEFENCES AND OF THEIR ADVERSARIES, THE ALLIED HEAVY BOMBERS. CONTAINING FULL-COLOUR ILLUSTRATIONS INCLUDING COCKPIT SCENES AND ARMAMENT VIEWS, THIS IS THE DEFINITIVE GUIDE TO THE MUCH-OVERLOOKED CONFLICT BETWEEN ALLIED PLANES AND GERMAN ANTI-AIRCRAFT DEFENCES.

[?] **ANTI-AIR GUN** LEON X,2023-05-23 MEET BRAUN. BRAUN, A MASTER WEAPONS ENGINEER USES HIS KNOWLEDGE AND EXPERTISE TO CREATE A SOUL TAKER, IN WHICH HIS ENEMIES WILL DIE PEACEFULLY WHEN STRUCK WITH AND NATIONS DESTROYED WITHOUT HESITATION, IN THE MOST PEACEFUL MANNER. BRAUN QUICKLY FORMULATES BLUEPRINTS AND FINALLY CREATES AN ANTI-AIR GUN, WHICH CAN BE EXPANDED UPON, THROUGH THE UNDERSTANDING AND DISMANTLING OF AIR MOLECULES FROM THE NEWLY UNDERSTANDING AND DISMANTLING OF ENERGETIC-NANO-CHEMICAL MOLECULAR SCIENCE. THE REAL QUESTION IS, CAN MASTER WEAPONS ENGINEER BRAUN PROVIDE ENOUGH ANTI-AIR GUNS TO DESTROY THE LIVES OF HIS ENEMIES AND RIVALS PEACEFULLY, WHOM STARTED A WAR THEY CANNOT FINISH? EVEN GOD CANNOT STOP THE WAR MACHINE AND ONLY CHRONOS WILL TELL.

[?] **ANTI-AIRCRAFT ARTILLERY IN COMBAT, 1950-1972** MANDEEP SINGH,2020-04-30 ANTI-AIRCRAFT ARTILLERY WAS EXTENSIVELY USED IN COMBAT IN THE FIRST WORLD WAR,

THOUGH SUCH WEAPONS HAD MADE THEIR DEBUT IN THE FRANCO-PRUSSIAN WAR IN 1870, WHEN THE BESIEGED FRENCH USED BALLOONS FOR OBSERVATION AND COMMUNICATION AND THE PRUSSAINS USED THE FIRST CUSTOM BUILT 1-POUNDER GUN TO TRY AND SHOOT THEM DOWN. IT WAS, HOWEVER, NOT UNTIL THE SECOND WORLD WAR THAT ANTI-AIRCRAFT ARTILLERY CAME INTO PROMINENCE, SHOOTING DOWN MORE AIRCRAFT THAN ANY OTHER WEAPON AND SERIOUSLY DEGRADING THE CONDUCT OF AIR OPERATIONS. IN THE BATTLE BETWEEN THE ATTACKERS AND ANTI-AIRCRAFT ARTILLERY, THE LATTER HAD THE UPPER HAND WHEN THE WAR ENDED. THE POST-WAR YEARS SAW A DECLINE IN ANTI-AIRCRAFT ARTILLERY AS PEACE PREVAILED, AND THE ADVENT OF THE JET AIRCRAFT SEEMED TO TILT THE BALANCE IN FAVOUR OF THE AIRCRAFT AS THEY FLEW FASTER AND HIGHER, SEEMINGLY BEYOND THE REACH OF ANTI-AIRCRAFT ARTILLERY. IT WOULD TAKE ALL THE HI-TECH EQUIPMENT AND THE GUILE AND CUNNING THAT ANTI-AIRCRAFT ARTILLERY COULD MUSTER TO TRY AND RECLAIM POLE POSITION. IT IS THAT STORY, OF THE TUG OF WAR BETWEEN THE AIRCRAFT AND ARTILLERY, THAT FORMS THE NARRATIVE OF THIS BOOK – AS IT TRACES THE HISTORY OF COMBAT EMPLOYMENT OF ANTI-AIRCRAFT ARTILLERY FROM THE KOREAN WAR, IN EFFECT THE FIRST JET AGE WAR, TO THE WAR OF ATTRITION BETWEEN ARAB STATES AND ISRAEL WHEN THE MISSILES CAME OF AGE, SENDING THE AIRCRAFT SCURRYING FOR COVER. ANTI-AIRCRAFT ARTILLERY IN COMBAT, 1950-1972 IS THE FIRST ATTEMPT TO LOOK AT THE COMBAT PERFORMANCE OF GROUND-BASED AIR DEFENCES, INCORPORATING THE VIEWS, ANALYSES AND EXPERIENCES OF SOVIET, ARAB AND SOUTH ASIAN ARMIES. THE BOOK LOOKS AT THE MAJOR WARS BETWEEN 1950 AND 1972, INCLUDING THE KOREAN WAR, VIETNAM WAR, THE WARS IN SOUTH ASIA IN 1965 AND 1971, AND CONFLICTS IN THE MIDDLE EAST, SUCH AS THE SIX DAY WAR.

📖 **HITLER'S AIR DEFENCES** STEPHEN WYNN, 2021-11-30 THE FIRST ALLIED BOMBING RAID ON BERLIN DURING THE COURSE OF THE SECOND WORLD WAR, TOOK PLACE ON 7 JUNE 1940, WHEN A FRENCH NAVAL AIRCRAFT DROPPED 8 BOMBS ON THE GERMAN CAPITAL, BUT THE FIRST BRITISH RAID ON GERMAN SOIL TOOK PLACE ON THE NIGHT OF 10/11 MAY 1940, WHEN RAF AIRCRAFT ATTACKED DORTMUND. INITIALLY, NAZI GERMANY HADN'T GIVEN MUCH THOUGHT ABOUT ITS AERIAL DEFENCES. BEING ATTACKED IN ITS 'OWN BACK YARD' WASN'T SOMETHING THAT WAS ANTICIPATED TO BE AN ISSUE. GERMANY HAD BEEN ON THE OFFENSIVE FROM THE BEGINNING OF THE WAR AND HITLER BELIEVED THAT THE LUFTWAFFE WAS THE MUCH STRONGER AIR FORCE. IN ADDITION, FROM 1939-1942, THE ALLIED POLICY OF AERIAL ATTACKS ON GERMAN SOIL WAS TO HIT TARGETS WITH A DISTINCT MILITARY PURPOSE, SUCH AS MUNITIONS FACTORIES, AIRFIELDS ETC. THIS MEANT THAT THE GERMANY MILITARY COULD FOCUS WHERE THEY PLACED THEIR ANTI-AIRCRAFT BATTERIES AND HAD A VERY GOOD IDEA OF HOW MANY THEY WOULD NEED. HOWEVER, GERMANY'S DEFENSIVE CAPABILITIES WERE FORCED TO IMPROVE AS ALLIED RAIDS ON TOWNS AND CITIES INCREASED IN SIZE AND FREQUENCY. FIGHTER AIRCRAFT WERE INCLUDED AS PART OF ANTI-AIRCRAFT DEFENCES AND FLAK UNITS MASTERED THE ART OF KEEPING ATTACKING ALLIED AIRCRAFT AT A SPECIFIC HEIGHT. THIS MADE IT MORE DIFFICULT FOR THEM TO IDENTIFY THEIR SPECIFIC TARGETS, AND EASIER FOR GERMAN FIGHTER AIRCRAFT TO SHOOT THEM DOWN BEFORE THEY COULD JETTISON THEIR BOMB LOADS. WITH THE ALLIED TACTIC OF 'AREA BOMBING', GERMANY'S ANTI-AIRCRAFT CAPABILITIES BECAME HARDER TO MAINTAIN AS DEMAND INCREASED. THE LONGER THE WAR WENT ON, ALONG WITH THE INCREASED ALLIED BOMBING RAIDS, SOMETIMES INVOLVING MORE THAN 1,000 Bomber aircraft, SO THE WORTH AND EFFECTIVENESS OF GERMAN AIR-DEFENCES DWINDLED.

📖 **A-4 Skyhawk vs North Vietnamese AAA** PETER E. DAVIES, 2020-09-17 WHILE THE F105 THUNDERCHIEF WAS THE USAF'S PRINCIPAL STRIKE WEAPON DURING THE ROLLING THUNDER CAMPAIGN, THE US NAVY RELIED ON THE DOUGLAS A-4 SKYHAWK FOR THE MAJORITY OF ITS STRIKES ON NORTH VIETNAM. THE SKYHAWK ENTERED SERVICE IN 1956 AND REMAINED IN CONTINUOUS PRODUCTION FOR 26 YEARS. THROUGHOUT OPERATION ROLLING THUNDER IT WAS THE US NAVY'S PRINCIPAL DAYTIME LIGHT STRIKE Bomber, REMAINING IN USE AFTER ITS REPLACEMENT, THE MORE SOPHISTICATED A-7 Corsair II, BEGAN TO APPEAR IN DECEMBER 1967. DURING THE 1965-68 ROLLING THUNDER PERIOD, UP TO FIVE ATTACK CARRIERS REGULARLY LAUNCHED A-4 STRIKE FORMATIONS AGAINST NORTH VIETNAM. THESE FORMATIONS FACED AN EVER-EXPANDING AND INCREASINGLY COORDINATED SOVIET-STYLE NETWORK OF ANTI-AIRCRAFT ARTILLERY MISSILES AND FIGHTERS. SKYHAWK PILOTS WERE OFTEN GIVEN THE HAZARDOUS TASK OF ATTACKING ANTI-AIRCRAFT DEFENCES AND TO IMPROVE ACCURACY, THEY INITIALLY DROPPED ORDNANCE BELOW 3000 FT IN A 30-DEGREE DIVE IN ORDER TO BOMB VISUALLY BELOW THE PERSISTENT LOW CLOUD OVER NORTH VIETNAM, PUTTING THE AIRCRAFT WITHIN RANGE OF SMALL-ARMS FIRE. THE DEFENDERS HAD THE ADVANTAGE OF COVERING A RELATIVELY SMALL TARGET AREA, AND THE SHEER WEIGHT OF LIGHT, MEDIUM AND HEAVY GUNFIRE DIRECTED AT AN ATTACKING FORCE BROUGHT INEVITABLE CASUALTIES, AND A SINGLE RIFLE BULLET COULD HAVE THE SAME EFFECT AS A LARGER SHELL. THIS ILLUSTRATED TITLE EXAMINES BOTH THE A-4 SKYHAWK AND THE VIETNAMESE AAA DEFENCES IN CONTEXT, EXPLORING THEIR HISTORY AND ANALYSING THEIR TACTICS AND EFFECTIVENESS DURING THE CONFLICT.

📖 **DEFENDING HITLER'S REICH** EDWARD B. WESTERMANN, 2000-07 BASED ON THE EXPERIENCE GAINED IN WORLD WAR I AND THE TECHNOLOGICAL AND ORGANIZATIONAL DEVELOPMENTS OF ANTI-AIRCRAFT FORCES IN THE INTERWAR PERIOD, GERMANY'S POLITICAL AND MILITARY LEADERSHIP ENTERED THE SECOND WORLD WAR WITH HIGH EXPECTATIONS FOR THE LUFTWAFFE'S GROUND-BASED AIR DEFENSES. THESE EXPECTATIONS WERE TIED TO A STANDARD THAT MEASURED SUCCESS BASED SIMPLY ON THE NUMBER OF AIRCRAFT SHOT DOWN. DESPITE THE SUCCESS ENJOYED BY THE LUFTWAFFE'S FLAK DEFENSES BETWEEN 1939 AND 1945, MANY LUFTWAFFE LEADERS DEMONSTRATED A LIMITED UNDERSTANDING OF THE BROADER OUTLINES AND EFFECTIVENESS OF GERMANY'S GROUND-BASED AIR DEFENSES. THESE MEN REPEATEDLY WERE GUILTY OF EVALUATING THE PERFORMANCE OF THE LUFTWAFFE'S AIR DEFENSES USING A SIMPLE BINOMIAL EQUATION THAT COMPARED FLAK WITH FIGHTER PERFORMANCE. THIS MYOPIC FOCUS ON FIGHTERS VERSUS FLAK LED THE LUFTWAFFE'S LEADERSHIP CONSISTENTLY TO IGNORE OR GROSSLY UNDERESTIMATE THE CONTRIBUTIONS OF OTHER ELEMENTS OF THE GROUND-BASED AIR DEFENSE NETWORK. GERMAN FLAK DEFENSES ACCOUNTED FOR AT LEAST HALF OF AMERICAN

AIRCRAFT COMBAT LOSSES DURING THE WAR AND AN ESTIMATED THIRTY-SEVEN PERCENT OF Bomber Command's MISSING AIRCRAFT DURING NIGHT RAIDS, WHILE ANTI-AIRCRAFT FIRE DAMAGED MORE THAN 66,000 U.S. BOMBERS AND OVER 9,000 BRITISH BOMBERS.

📖 **ILLUSTRATED HANDBOOK OF FLAK** JEAN-DENIS LEPAGE, 2012 DURING THE SECOND WORLD WAR, AS THE ALLIES SENT THOUSANDS OF AIRCRAFT TO ATTACK THE GERMAN HOMELAND, IT WAS THE FLAK TEAMS THAT STOOD AS THE LAST LINE OF DEFENCE. FORBIDDEN AFTER THE END OF THE FIRST WORLD WAR, THE GERMAN FLAK ARM WAS REBUILT BY THE NAZIS AFTER JANUARY 1933, BECOMING PART OF THE LUFTWAFFE IN 1935 AND GROWING UNTIL ALL BRANCHES OF THE WEHRMACHT HAD THEIR OWN ANTI-AIRCRAFT CAPABILITIES. IN THE ILLUSTRATED HANDBOOK OF FLAK, JEAN-DENIS LEPAGE COVERS ALL ASPECTS OF GERMAN ANTI-AIRCRAFT ARTILLERY: ITS DEVELOPMENT FROM THE FIRST ANTI-BALLOON ARTILLERY IN THE FRANCO-PRUSSIAN WAR OF 1870 TO THE SOPHISTICATED GROUND-TO-AIR ROCKETS IN USE BY 1945, THE ADMINISTRATIVE, STRATEGICAL AND TACTICAL ORGANISATIONS INVOLVED, AND THE VARIETY OF WEAPONS USED. IT DETAILS THE UNIFORMS WORN BY THE MEN - INCLUDING FLAGS, BADGES AND MEDALS - EQUIPMENT USED SUCH AS SEARCHLIGHTS, RANGE FINDERS AND RADAR, AND MOBILE FLAK EMBLEMMENTS AND PERMANENT FORTIFICATIONS. THE SERVICES INVOLVED ARE ALSO DESCRIBED, INCLUDING THE POLICE, FIRE BRIGADES, PARAMILITARY AUXILIARIES AND THE GERMAN RED CROSS. WITH OVER 300 ILLUSTRATIONS CREATED BY THE AUTHOR, THIS IS AN OUTSTANDING REFERENCE WORK, PROVIDING NEW INSIGHT INTO THE ANTI-AIRCRAFT TEAMS WHO FOUGHT TO HOLD BACK THE OVERWHELMING MIGHT OF THE ALLIED BOMBERS DURING THE SECOND WORLD WAR.

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