Myasishchev M 4

E. Gordon, Vladimir Rigmant

Mvasishchev M-4 and 3M Yefim Gordon, 2003 8= x 11, 16 pgs of color photos plus color side views 200 b&w photos This is the story of the Soviet Union's first intercontinental jet bomber which was to have become a carrier of nuclear missiles and the Soviet answer to the Boeing B-52. Much to the surprise of many, the little-known Myasischev bureau was chosen to do the job; it had been disbanded a few years earlier and reinstated solely to create such a bomber. Known to the West as the Bison, the new bomber employed many innovative features (including a bicycle landing gear) and was created within the short period of just one year; Western military observers were stunned when the aircraft was formally unveiled at the 1953 May Day parade. The M-4 and the muchimproved 3M remained in service for 40 years until retired and scrapped in compliance with the START treaty. The Bison also served as the basis for the VM-T Atlant specialized cargo aircraft designed to piggy-back the Buran space shuttle and components of the Energiya launch rocket. Also described are the many projected derivatives of the M-4 designed in the 1950s, including long-range airliners. This book, written by a Russian author using material from original Russian archives, includes more than 200 photos, most of which have not been seen in the West.

Myasishchev M-4 And 3M Yefim Gordon,Dmitriy Komissarov,2021-07-28 When the Myasishchev design bureau was reborn in 1951, it was immediately tasked with creating a high-speed strategic bomber to balance the threat posed by NATO's heavy bombers, notably the B-52. Designated M-4 and code-named Bison by NATO, the new four-turbojet bomber was developed within an incredibly short time--just one year. It made use of many innovative features, including a bicycle landing gear, and was designed around the most powerful jet engine of the day. It became the progenitor of a small family of bombers and refueling tankers, including the much-improved 3M and its versions. Many of the intended versions never materialized, and the Bison had its share of problems, but it came at just the right time, providing a valuable nuclear deterrent, and remained in service for 40 years until retired in compliance with the START treaty. The book charts the first Soviet strategic jet bomber's development and operational history. It includes the story of how the 3M was adapted to carry components of the Energiya/Buran space transport system as the VM-T Atlant outsize cargo transporter.

Soviet Strategic Aviation in the Cold War E. Gordon,Yefim Gordon,2009 Born in the 1930s, the Soviet Air Force's long-range bomber arm (known initially as the ADD and later as the DA) proved itself during the Second World War and continued to develop in the immediate post-war years, when the former allies turned Cold War opponents. When the strategic bomber Tu-4 was found to be too 'short-legged' to deliver strikes against the main potential adversary - the USA, both Tupolev and Myasishchev OKBs began the task by creating turbine-engined strategic bombers. By the Khrushchev era in the mid/late 1950's the Soviet defence industry and aircraft design bureaux set about adapting the bombers to take air-launched missiles for use against land and sea targets and in 1962 the DA fielded its first supersonic aircraft - the Tu-22 Blinder twinjet, which came in pure bomber and missile strike versions. The Brezhnev years saw a resurgence of strategic aviation with the Tu-22M Backfire 'swing-wing' supersonic medium bomber entering service in the mid-1970s followed in 1984 by the Tu-95MS Bear-H and Tu-160 Blackjack which were capable of carrying six and 12 air-launched cruise missiles respectively. Soviet Strategic Aviation in the Cold War shows how the DA's order of battle changed in the period from 1945 to 1991. Major operations including the air arm's involvement in the Afghan War, the Cold War exercises over international waters in the vicinity of the 'potential adversary' and the shadowing of NATO warships are covered together with details of Air Armies, bomber divisions and bomber regiments, including their aircraft on a type-by-type basis. Over 500 photos, most of which are previously unpublished in the West, are supplemented by 61 colour profiles, colour badges and line drawings of the aircraft and their weapons, making this an essential reference source for the historian and modeller alike.

Soviet and Russian Special Mission Aircraft Yefim Gordon, Dmitriy Komissarov, 2022 In the years after World War II, aircraft optimized for various kinds of special missions began assuming evergreater importance in the inventories of the world's leading air forces. The Soviet Union was no exception - numerous special mission versions of Soviet military fixed-wing aircraft and helicopters were developed and fielded, and the process is continuing in modern Russia. Some of them have seen action in various armed conflicts, including the Afghan War, the Chechen Wars and, most recently, the Syrian War. The need to control friendly forces on the move and manage airborne air defense assets efficiently resulted in the development of airborne early warning and control (AEW&C) aircraft. The first of these in the Soviet inventory was the early 1960s vintage Tupolev Tu- 126 which was replaced in the 1980s by the Ilyushin/Beriyev A-50. The latter has been constantly upgraded but is now due for replacement by the latest A-100. An equally important role is filled by airborne command posts - mostly based on airliners, including the Ilyushin Il-22 army-level ABC P, the Tu-214PU and the Il-80 national emergency airborne command post (the Russian equivalent of the Boeing E-4 'doomsday aircraft'). The latter may be replaced by a specialised derivative of the Il-96-400 airliner. Rotary-wing aircraft in this class were also developed, such as the Mil' Mi-8VzPU and Mi- 6VKP/Mi-22. Another important class is reconnaissance aircraft of various categories--photo reconnaissance, electronic intelligence, nuclear/biological/chemical reconnaissance, radiation intelligence (RINT). These were represented by ELINT versions of bombers (including the Tu-22 and Tu-22M), airliners and transports (ELINT versions of the Antonov An-12 and An-26 transports, the Il-20 derivative of the Il-18 airliner), RINT versions of the An-12 and

the An-24 airliner etc. A separate chapter covers electronic countermeasures aircraft, such as specialized versions of the Tu-16 and Tu-22 bombers and An-12 transport, the latest Il-22PP, the Army Aviation's many EC M versions of the Mi-8 helicopter (including the latest Mi-8MTPR) and the heavy Mi-10PP. A singularly important class is inflight refueling tankers supporting the operations of both heavy aircraft (notably strategic bombers) and tactical jets. These include tanker versions of the Tupolev Tu-16 and Myasishchev M-4/3MS series bombers and the Il-78, including the latest Il-78M-90. Another category which assumed considerable importance is search and rescue aircraft, such as the naval An-12PS equipped to carry a paradroppable lifeboat and the latest Berivev Be-200PS amphibian able to pick up survivors at the scene of a maritime disaster. The book is illustrated with numerous previously unpublished photos, line drawings and many color side views.

OKB Tupolev E. Gordon,Vladimir Rigmant,2005 A History of the Design Bureau and its Aircraft Yefim Gordon & Vladimir Rigmant The origins of the design bureau that was to bear his name can be traced back to the appointment of Andrey Nikolayevich Tupolev as head of the TsAGI's Aviation Department in 1918. Over the years, nearly 300 projects have evolved within the OKB. Nearly 90 reached the prototype construction stage, with more than 40 types put into series production.In the 1930s, the TB-1 (ANT-4) and TB-3 (ANT-6) bombers, the latter being the world's first heavy strategic bomber, paved the way for

the long line of large multi-engined aircraft both civil and military for which the OKB is justly famed. Wartime production of the SB and Tu-2 plus the remarkable 'reverse engineering' of the Boeing B-29 that resulted in the Tu-4 led on to the jet Tu-16 and prop Tu-95 bombers. These, in turn were adapted for civil purposes as the Tu-104 and Tu-114 airliners. The supersonic Tu-22 and Tu-22M bombers and the Tu-144 airliner, a move into pilotless aircraft and a host of imaginative but unbuilt projects complete a fascinating work.

Yakovlev Yak-25/26/27/28 Yefim Gordon,2002 During the 1950s and 1960s the Soviet design bureau Yakovlev was responsible for a series of swept-wing twin-engined jet combat aircraft, all of which are covered in this Aerofax volume and in the usual format with a mass of new information, details, and illustrations from original Russian sources.

The Petlyakov Pe-2 Peter C Smith,2020-03-30 During the Second World War, the Soviet Union's Petlyakov Pe-2 _Peshka_ dive-bomber was unique in that it was as fast as most fighter aircraft. This was in a period when it was considered by the RAF that it was impossible for monoplane aircraft to conduct vertical bombing with any degree of success. During the war the Pe-2 was the principal dive- and light-bomber of Russia's air power across the vast Eastern Front and it continued in service until the early 1950s with the air forces of the Warsaw Pact countries and Yugoslavia. Conceived by a team of top aircraft designers whom Stalin had incarcerated in a prison camp on trumped-up political charges, the Pe-2 had

originally been designed as a high-altitude twinengine fighter plane, but, due to the outstanding success of the German Stukas in the Blitzkrieg, its role was quickly changed to that of a fast dive-bomber. The Pe-2 arrived in service around the time of the German attack on its hitherto ally. Although only a handful had reached front line units by the start of Operation Barbarossa in June 1941, the Pe-2 soon became the main divebomber in both the Soviet VVS and Naval service. Mass production, by factories hastily moved back beyond the front, meant that numbers increased rapidly, and more than 11,000 of the type, including many variants, were built up to 1945. The Peshka became the mainstay of the Soviet counteroffensive that ultimately resulted in the fall of Berlin. Pe-2s also led the way in the brief but annihilating Manchurian campaign against Japan in the closing days of the war in 1945. Using official sources, including the official Pe-2 handbook, and numerous color and black-andwhite photographs made available to the author from both official and private sources and collections, this book is the definitive record of the Pe-2 - the dive-bomber supreme!

U.S. Intelligence and the Soviet Strategic Threat Lawrence Freedman,2014-07-14 The author examines in detail the organization of the U.S. intelligence community, its attempts to monitor and predict the development of Soviet forces from the early days of the cold war, and how these attempts affected American policy and weapons production. Originally published in 1987. The Princeton Legacy Library uses the latest print-on-

demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

Spyplanes Norman Polmar, John Bessette, 2016-12-20 Spyplanes is an illustrated history of manned spyplanes, with profiles, pictures, and technical specifications for each plane.--Provided by publisher.

<u>Tupolev Tu-95/-142</u> Yefim Gordon,E.

Gordon,2004-03-24 - Covers the Tu-95 'Bear', a machine with impressive speed--unique in that it combined turboprop engines with swept wings. The aircraft quickly became a symbol of the Soviet threat. - This book covers the Bear's development and service from inception to present day--some of the Bear's versions remain in service today. -Contains approximately 200 black & white and color photos.

Tupolev Tu-4 E. Gordon,Yefim Gordon,Dmitriy Komissarov,Vladimir Rigmant,2014 After World War II, the Soviet Union and the USA, who had been allies in the war, started moving towards political and military confrontation. The Soviet Union urgently needed a strategic bomber capable of striking at the USA. Thus, the windfall of three battle-damaged B-29s forced to land in Soviet territory was most welcome. The Soviet Union kept them; a huge reverse-engineering effort ensued, resulting in a Soviet copy of the Superfortress (the Tu-4) and a major technology boost to the Soviet aircraft and avionics industries. From then on, the Soviet Superfortress evolved independently, some of the Tu-4 versions having no direct U.S. equivalent. These included the Tu-4K missile carrier, a wing-to-wing flight refueling tanker, and the Tu-4T transport. The Tu-4A was the first Soviet nuclear-capable bomber. Experimental versions included engine testbeds, a towed escort fighter program, and more. The book also describes the Tu-4's production and service history (including service in China--the only nation besides the USSR to operate the type) and touches on the Tu-4's transport derivatives, the Tu-70 airliner, and the Tu-75 military airlifter. The book is illustrated with many color side views and hitherto unpublished photographs.

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.

<u>International Warbirds</u> John C. Fredriksen,2001-08-01 In depth descriptions and photographs of the aircraft of 21 nations presented with a unique human dimension that goes behind the machines to the people involved. Invaluable for specialists, accessible to enthusiasts, International Warbirds: An Illustrated Guide to World Military Aircraft, 1914-2000 puts the most legendary fighter aircraft of the 20th century developed outside the United States on vivid display. It offers 336 illustrated biographies of the most significant warplanes used in squadron service from World War I to the Balkan conflict, including numerous models from Great Britain, France, Russia, and Japan, as well as notable machines from Israel, Canada, China, India, Brazil, and other nations. Entries span the history and scope of military aircraft from bombers and fighters to transports, trainers, reconnaissance craft, sea planes, and helicopters, with each capsule history combining nuts-and-bolts technical data with the story of that model's evolution and use. Together, these portraits offer an exciting, well-researched tribute to visionary designers and builders as well as courageous pilots and crews across the globe, and tell a vivid tale of how air power became such a decisive factor in modern warfare.

Russian Bombers David Baker,2023-08-04 Strategic bombing had proved decisive in helping the Western allies bring Nazi Germany to its knees during the Second World War but the Soviet Union had never developed an equivalent capability - an oversight it would rapidly address as the cold war began in earnest. Immense efforts to reverse-engineer interned American B-29 Superfortresses resulted in the fearsome Tupolev Tu-4 - and heralded a bold

new era of heavy bomber design in Russia and across the Soviet Union. Within a few short years, the advanced swept-wing Tu-16 jet bomber, codenamed Badger by NATO had made its first flight. This was swiftly followed by the legendary turboprop-powered Tu-95, codenamed Bear, which remains a symbol of Russian air power today. Less than a decade later, the Soviet Union was flying the mighty long-range Myasishchev M-4 Bison and the supersonic Tu-22 Blinder, both of which raised grave concerns in the West when their existence became known. By the early 1970s, the highly capable Tu-22M Backfire had joined the Soviet arsenal and then, as the Iron Curtain fell and the world changed, so too did Russian bomber technology. Secret advancements in stealth and precision strike capabilities led to the creation of the Tu-160 Blackjack, a supersonic behemoth capable of carrying a devastating payload of cruise missiles. But the story doesn't end there: the turbulent post-Soviet era saw Russia reemerge onto the global stage with a succession of upgrade programs taking the venerable Tu-95, the Tu-22M and Tu-160 into the modern age with cutting-edge systems and weapons. From the depths of history to the forefront of modern warfare, Russian Bombers showcases the remarkable engineering prowess, strategic innovation, and indomitable spirit that define these iconic warplanes. Through meticulous research and gripping narratives, author David Baker sheds light on the pivotal role Russian bombers have played - and continue to play - in shaping world events.

Russian and Soviet Ground Attack Aircraft

Alberto Trevisan, Anatoly P. Borovik, 2020-09-24

AERIAL REFUELING - THE FIRST CENTURY UGO VICENZI,2019-02-27 The book presents history, methods, airplanes and operators in the area of Aerial Refueling, it shows an historical analysis from the first attempts in the aeronautical circuses, up to the affirmation as a military necessity after World War II and the subsequent expansion in many air forces Contents: -Development from the first attempts of 1929 to the first flight around the world without a stop -Detailed presentation of the various methods attempted in history, with drawings and photographs, - Description of types of aircraft in service performing in-flight refueling -Presentation of Air Forces, Units, their history, the strategic reasons that have developed the need for a fleet of tankers for the current 34 air forces, the future ones, as well as commercial operators - Presentation of of some unusual aircraft refueling attempts and vision on inflight refueling systems in the - Fully illustrated with over 700 color images and drawings - 200 pages

<u>Tupolev Tu-16</u> Yefim Gordon,Dmitriy Komissarov,Vladimir Rigmant,2017-10-17 Developed to meet a Soviet Ministry of Defense requirement for a fast bomber that would counter the threat posed by NATO, the Tu-16 was a ground-breaking project. It was the first Soviet medium bomber to feature swept wings, and it was built around a pair of turbojets that were the world's most powerful jet engines at the time. First flown in 1952, the Tu-16 filled such roles as nuclear bomb delivery, missile strike, reconnaissance, and Electronic Counter Measures. It also served as the basis for the first Soviet jet airliner, the Tu-104. Nearly 1,500 were built for the Soviet Air Force and the Soviet Navy, and the Tu-16 showed remarkable longevity, the final examples being retired in 1993. The type saw quite a bit of combat--from the Six-Days War of 1967 to the Afghan War. The Tu-16 was also produced in China and remains in Chinese service to this day. All known versions are described, as is the Tu-16's operational career. The book features many hitherto unpublished photos.

Antonov's Heavy Transports Yefim Gordon, Dmitriv Komissarov, 2020-11-28 This book charts the development and service history of the Antonov design bureau's heavy transport aircraft. In the late 1950s, the Antonov design bureau began developing the An-22 heavy military transport, intended to carry 50 tons. Powered by four 15,000 hp turboprops, it was the world's heaviest transport when it first flew in February 1965. The four-turbofan An-124 was again the world's most capable airlifter when it emerged in 1982, with a payload of 120 tons. It proved its worth in military and humanitarian operations and earned acclaim as a commercial freighter after 1991 for carrying heavy and outsized items. The unique sixengined An-225 Mriya was created for carrying the Buran space shuttle. Despite the demise of the Buran program, the aircraft found use on the heavy/outsized cargo transportation market. It is illustrated by a wealth of new photos and color artwork, as well as line drawings.â

Soviet Secret Projects Tony Buttler,Yefim Gordon,2004 Among the best-selling aviation titles of recent years have been Midland's Lutwaffe and British Secret Projects series. Soviet secret projects now come under the spotlight. This first volume covers bomber concepts from the various design bureaus from the 1940s onwards. Many unusual and sophisticated aircraft are featured in these pages, allowing comparisons between what the Soviets were working on and what was being produced in the West during that period.

Unflown Wings Dmitriy Komissarov, Sergey Komissarov, Yefim Gordon, 2013 This book surveys all the Soviet/Russian aircraft that either remained "paper projects" (the work progressed no further than the design documents or even merely a design proposal) or were abandoned at the prototype construction stage. Over many years, the authors have unearthed a mass of unpublished material on these aircraft projects including the Isayev/Shevchenko bi-monoplane fighters with retractable lower wings developed in the 1930s, early Soviet jet fighter projects of the Second World War period, and the twin-boom fighters and attack aircraft developed by Semyon M. Alekseyev in the late 1940s. Wherever possible, images of the aircraft are shown, including pictures of models, and line and cutaway drawings from the project documents, giving the readers the maximum available information on Soviet aircraft projects developed over a large time scale. The book is richly illustrated with numerous photos, drawings, and diagrams, as well as color side views of the unbuilt aircraft, which will be of interest not

only to the numerous Soviet/Russian aviation enthusiasts but also to scale modelers.

Myasishchev M 4: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year. Myasishchev M 4 : Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Myasishchev M 4 : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience. survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary

treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he guickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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