

Sukhoi Su 25m1

Alexander Mladenov

Sukhoi Su-25 Frogfoot Alexander Mladenov, 2013-09-17 Like the American A-10 Warthog, the first Soviet jet dedicated by design to CAS (Close Air Support), the 'Frogfoot' has durability and firepower. In February 2012, the Sukhoi Su-25 (NATO reporting name Frogfoot) celebrated 37 years of its maiden flight, 31 years of its formal induction into squadron service and 25 years of its formal entry into service with the Soviet Air Force. It was the Soviet Air Force's first mass-produced jet purposely designed for the Close Air Support (CAS) role and is a simple, effective and durable attack workhorse that, by 2012, had seen combat in no fewer than 40 conflicts. The Su-25 received its baptism of fire five years after its maiden flight, during Operation Romb in Afghanistan in 1980. This operation saw the new aircraft go through its field evaluation and testing in real-world war conditions. As many as 630 Su-25 Frogfoot-As were built between 1979 and 1991 at the Georgia-based aircraft plant now known as TAM (Tbilisi Aircraft Manufacturing) for the Soviet Air Force, as well as 185 Su-25Ks for export, while no fewer than 70 Su-25UB/UBK Frogfoot-B two-seaters rolled off the production line at the aviation plant in Ulan Ude (UUAP), Russia. Currently, there are plans to resume production of the two-seater variant with state-of-the-art avionics and the latest weaponry to replace those Su-25s dating from the mid/late 1980s that are still in service. The Frogfoot is known as the most cost-effective ground attack aircraft available to the Russian Air Force (RuAF) and, between the RuAF and the Russian Navy's aviation assets, there are some 200-220 Su-25s still in operation today, though only half of that number is airworthy at any one time. As with many Soviet designs, the Su-25 has been widely exported, with 25 nations operating

variants of the Frogfoot at one time or another, and it remains in service 19 of these states - a testament to its effectiveness and reliability.

Sukhoi Su-27 Flanker E. Gordon, Yefim Gordon, 1999 The Su-27 entered service with the Russian Air Force in the mid-1980s. This comprehensive history is based on documents supplied from Sukhoi, interviews with design and engineering employees of the company, and all available information that has been published on this deadly aircraft. Contains development history, operational service history, technical details, and explanations of each model in the range. Technical drawings, photos, and text combine to make this the ultimate Sukhoi Su-27 reference.

Sukhoi Su-34 'Fullback': Russia's 21st Century Striker Hugh Harkins, 2013-10-02 Su-34 The Su-34 'Fullback' was developed from the Su-27 'Flanker' interceptor/fighter as a fourth plus generation strike aircraft for service with the Russian Air Force. Conceived in the twilight years of the Soviet Union, the aircraft weathered the financial crisis that gripped post communist Russia following the collapse of the Soviet Union in the early 1990's, maturing into an advanced strike aircraft, deliveries to the Russian Air Force commencing in late 2006. The aircraft is currently in service with increasing numbers being ordered to replace that country's aging fleet of Su-24M/M2 strike aircraft. It is also planned for the Su-34 to replace the Su-24MR in the tactical reconnaissance role. This volume covers the program from conception to operational service with chapters describing the aircraft, systems and weapons, production, flight testing and initial service. The text is complimented by black and white photographs

Sukhoi Su-24 Yefim Gordon, E. Gordon, 2004-10 - Illustrates the Sukhoi Su-24's

development and service history, including operations in Russia, the Ukraine, Iran, and Iraq. - To this day the Su-24 remains the principal Russian tactical bomber. - Contains approximately 200 black & white and color photos with detailed captions.

Sukhoi Su-25: Famous Russian Aircraft Yefim Gordon, E. Gordon, Dmitriy Komissarov, 2020 The Su-25 ground attack aircraft made its first flight on February 22, 1972. After five years of tests the aircraft reached its definitive configuration with new engines, a revised airframe and new armament, entering certification trials which were completed in 1981. A year earlier, however, the initial production Su-25 had received its baptism of fire in the Afghan War. Gradually the Su-25 became the progenitor of a family. The Su-25UB combat trainer came first; the single-seater and two-seater were also built for export as the Su-25K/Su-25UBK. A new line of development began in 1979 with a series of single-seat 'tank buster' variants based on the Su-25UB's airframe but featuring more advanced sighting systems and weapons. The first of these was the Su-25T of 1984, followed by Su-25TM (Su-39) of 1993 making the Su-25 in the end the sole Russian light attack aircraft. The Su-25 has been widely exported, serving with air forces in Europe, Asia, the Middle East, Africa and South America. Apart from the Afghan War, it has seen action in Iraq, Angola, Congo, Eritrea, Ethiopia, Macedonia, Côte d'Ivoire, Sudan and in conflicts between the former Soviet republics. More recently the Frogfoot has been used in the Russian participation in the civil war in Syria War. The book describes the full development and service history of the Su-25, featuring fleet lists and a design descriptions. It is illustrated throughout with numerous photos and color profiles.

Applications of Systems Thinking and Soft Operations Research in Managing

Complexity Anthony J. Masys, 2015-09-14 This book captures current trends and developments in the field of systems thinking and soft operations research which can be applied to solve today's problems of dynamic complexity and interdependency. Such 'wicked problems' and messes are seemingly intractable problems characterized as value-laden, ambiguous, and unstable, that resist being tamed by classical problem solving. Actions and interventions associated with this complex problem space can have highly unpredictable and unintended consequences. Examples of such complex problems include health care reform, global climate change, transnational serious and organized crime, terrorism, homeland security, human security, disaster management, and humanitarian aid. Moving towards the development of solutions to these complex problem spaces depends on the lens we use to examine them and how we frame the problem. It will be shown that systems thinking and soft operations research has had great success in contributing to the management of complexity.

The Sukhoi Su-27/Su-33 Stanisław Krzysztof Mokwa, 2019-12-27 In the late 1960s Soviet Union started working on fighters that would be a counterbalance for the American F-15 Eagle. In 1969, a competition for a new fighter was announced, but when the parameters to be met were given, Pavel Sukhoi withdrew from it. He considered that the required performance could not be reached. Despite this, the designers from his office - Oleg Samojtowicz, Valery Nikolaenko and Vladimir Antonov - developed the plane and presented it for the competition as T-10 prototype. The aircraft was constructed as a heavy interceptor fighter (light version was the MiG-29, which was submitted in the same competition).

Sukhoi Su-27 & 30/33/34/35: Famous Russian Aircraft Yefim Gordon, Dmitriy Komissarov, 2018-10 The Sukhoi Design Bureau was tasked in 1969 with developing a fourth-generation heavy fighter and thus began the story of the Su-27, known to the western world as the Flanker--an aircraft which turned out to be one of the most successful Soviet fighter designs. This book tells the story of how the original project developed, how the final configuration of what was known as the T-10 was selected and why the brave decision to scrap the original project and rework it as the T-10S was taken, a decision that proved to be justified. The book covers the design and testing of the prototypes in both configurations, the production entry of the basic Su-27 single-seat fighter and the Su-27UB two-seat combat trainer together with the efforts of Sukhoi to keep them up to date with mid-life upgrades to Generation 4++' (Su-35S) level. The operational histories of Su-27 versions including the Su-30/Su-34/Su-35 are also described. When the Soviet Navy decided to bolster its fleet with carriers optimized for conventional take-off and landing (CTOL) aircraft, Sukhoi responded by developing the Su-27K, which later entered service as the Su-33, Russia's first operational CTOL shipboard fighter. These naval variants are included in the book as is a chapter describing the story of how China purchased license manufacturing rights for the Su-27 and went on to develop its own versions with indigenous avionics and weapons, including the basic J-11 fighter and the J-15 Flying Shark--a clone of the Su-33. The post-Soviet republics included, the Su-27/Su-30/Su-34/Su-35 family has seen service with nearly 20 nations, including places as far apart as Vietnam, Malaysia, Ethiopia, Indonesia, Angola, India and Venezuela. The book describes in depth the development and operational career of the Su-27 family,

including mid-life upgrades and the latest variants, and features detailed fleet lists. Richly illustrated with color photographs, line drawings and color profiles of the various color schemes carried by the type, this is the definitive work on a truly outstanding aircraft.

Sukhoi Su-35s Flanker E Robert Pied,Nicolas Deboeck,2021-08-31 The first close-up look at the newest version of the Flanker, recently taken into service by the Russian Air Force. Including spectacular, never before seen details such as cockpit, thrust-vectoring engine exhausts and more.

Sukhoi Su-24 Yefim Gordon,Dmitriy Komissarov,2015 Developed in the Soviet Union in the 1960s, the Su-24 tactical bomber has become one of the most successful aircraft in its class. Featuring delta wings and auxiliary lift engines meant to improve its field performance, the first prototype turned out to be more of a liability than an asset and the aircraft was redesigned to have variable geometry wings. The Su-24 had its baptism of fire in the Afghan War and was also exported to Iraq, Iran, Algeria, Libya and Syria, seeing action in some of these countries. At home, Russian Air Force Su-24s were heavily involved in the first and second Chechen campaigns and the type has undergone a mid-life update allowing it to carry precision-guided munitions, and is still going strong. Illustrated with over 750 photographs, many previously unpublished, as well as line drawings, color side views, insignia, unit badges and nose art this latest addition to the Famous Russian Aircraft series will be of interest to aviation enthusiasts and scale modelers alike.

The Sukhoi Su-24 Stanislaw Krzysztof Mokwa,2020-02-19 Su-24 (Fencer) is a Soviet jet bomber with variable-geometry wings. The aircraft was supposed to be a response to the American F-111, and therefore it's structurally similar. Su-24 can operate in any

weather conditions, also at night. It was designed to carry tactical nuclear weapons. In the 1960s, the military command of the Soviet Union set requirements for a new attack aircraft that would be able to operate despite strong ant-aircraft defense of NATO troops. An aircraft was expected to fly on a very low altitude at a very high speeds. Initially, it was based on Su-7 and Su-15 airframes, but due to the decision to use variable-geometry wing, it was necessary to build a completely new structure. Variable geometry allowed to achieve high speeds while maintaining good takeoff and landing characteristics. This is how Su-24 was born. The first prototype was flown on July 2, 1967 (marked as T6-1), and the second on January 17, 1970 (T6-2I). Variable-geometry wings were only used in the second prototype. In December 1971, the first serial Su-24 was built, but due to the prolonged acceptance tests (lasting until 1974), the aircraft officially did not become operational until February 1975. Su-24 was named Fencer in the NATO code.

Su-25 'Frogfoot' Units In Combat Alexander Mladenov, 2015-04-20 This volume details the technical features and operational performance of the Soviet Su-25 'Frogfoot', which proved itself as a durable and versatile attack aircraft in a variety of theatres such as Afghanistan, Georgia and Ossetia. Today it is widely accepted as the true successor to the types of specialised ground-attack aircraft that emerged during World War II. This book illuminates the service history of the 'Frogfoot' in over 30 years of combat using first-hand accounts and revealing archive photographs. The awkward-looking Su-25 has often been underrated, but the faithful 'Frogfoot' is now slated to remain in service with most of its current operators across the globe until at least 2020. This study explores the successes of the 'Frogfoot' in full, demonstrating its strengths as a formidably armed,

armoured and very agile attack aircraft.

Sukhoj SU-25 Yefim Gordon, E. Gordon, 2004-11 - Covers the development and service of the Sukhoi Su-25, detailing the various versions and operator nations. - The Sukhoi Su-25 quickly earned a reputation as a mean fighting machine after entering service. - Contains approximately 200 black & white and color photos.

Sukhoi Su-30 Mkk/Mk2/M2: Russo-Kitayshiy Striker from Amur Hugh Harkins, 2015-10-27 The Su-30MKK/MK2/M2 family of combat aircraft share the same numerical designation as the Su-30MK/MKI/SM family of multi-role combat aircraft which were clearly derived from the Su-30M, which was, itself, derived from the Su-27UB two-seat operational conversion variant of the Su-27S single-seat air superiority fighter. However, the numerical designation and some first glance looks aside, the Su-30MKK family is fundamentally a different design from the Su-30MKI family in terms of primary design role, internal systems and structure; certainly in regards to the latter the aircraft having more in common with the Su-27M (first generation Su-35) than the Su-27UB or Su-30M. This volume covers the evolution of the Su-30 design from the Su-27, which was born out of the T-10 development program of the 1970's. The evolution of the Su-30M interceptor into the multi-role Su-30MK is described. The Su-30MKK is covered in detail, as are the improved Su-30MK2 for the export market and the Su-30M2 strike fighter developed for the Russian Federation Air Force. The aircraft and systems are described in detail, as are the weapons that can be employed by the respective variants. The enigma that is the Su-35UB is included as that aircraft, in regards to structure, has more in common with the Su-30MKK family than any other Su-27 family variant. All technical

information regarding the aircraft, systems and weapons have been provided by the respective manufacturers, as have many of the photographs and diagrams. Elements of the first and fifth chapters borrow certain texts from the volumes 'Sukhoi Su-35S 'Flanker' E, Russia's 4++ Generation Super-Manoeuvrability Fighter' and 'Sukhoi T-50/PAK FA, Russia's 5th Generation 'Stealth' Fighter'.

Su-33: Russia's Carrier-Borne Strike Fighter Hugh Harkins, 2019-07-07 The intent of this volume is to detail the Sukhoi Su-33 (Su-27K) fourth generation naval strike fighter aircraft design procured for service aboard the Soviet Union (later Russian Federation) Project 1143.5 Aircraft Carrying Heavy Cruiser, Admiral of the Fleet of the Soviet Union, Kuznetsov. The volume covers the evolution of the T-10K, which was developed for service as the Su-33, and the limited updates introduced. All technical information regarding the aircraft, systems and weapons have been provided by the respective designers/developers, as has most of the graphic material, with technical and graphic input from other entities such as the Ministry of Defence of the Russian Federation. Certain elements of text, where pertinent, are taken from the volume 'Sukhoi Su-27SM(3)/SKM' (Harkins, 2016) and 'Russian/Soviet Aircraft Carrier & Carrier Aviation Design & Evolution Volume 2' (Harkins, 2017). No attempt is made to detail the Su-27KUB experimental design or the Chinese Su-33 copy, the Shenyang J-15, which are outside the scope of the volume, although both are referred to in the addendum.

Sukhoi Su-25 Frogfoot S. Skrynnikov, 1994

Lock On Francois Verlinden, 1998-10-01

Sukhoi Su-25 E. Gordon, Dmitrii Sergeevich Komissarov, 2020

Sukhoi Su-34 Fullback Robert Pied,Nicolas Deboeck,2023-06-30 A unique look at the Su-34 Fullback; the first complete walk-around of the huge fighter bomber in service with the Russian Air Force since 2014. Includes never before published action photography which shows the versatility of the aircraft.

Sukhoi Su-27 Flanker Jon Lake,1994

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