

# Sukhoi Su 25

Alexander Mladenov

**Sukhoi Su-25 Frogfoot** Alexander Mladenov,2013-09-20 A fully illustrated technical guide to the Sukhoi Su-25 Frogfoot. The Sukhoi Su-25 Frogfoot was the Soviet Air Force's first mass-produced jet purposely designed for the close air support (CAS) role and was a simple, effective and durable attack aircraft that, by 2012, had seen combat in no fewer than 40 conflicts. Some 630 Su-25s were built between 1979 and 1991, as well as 185 export Su-25Ks, 70 Su-25UB/UBK Frogfoot-B two-seaters that rolled off the production line at the aviation plant in Ulan Ude (UUAP), Russia. 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. Illustrated throughout with photographs and colour artwork, this title examines the development history, evolution and combat performance of the Su-25 Frogfoot, and details its effectiveness and reliability. Such is the reputation the Su-25 has earned, 19 of the 25 nations to have deployed a Frogfoot variant continue to operate them today.

**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.

*Sukhoi Su-25 Frogfoot* Yefim Gordon,2007-07 Detailed coverage of the Sukhoi Su-25, one of the most well-known and popular Russian combat aircraft types.

**Sukhoi Su-25 Frogfoot** Yefim Gordon,2004-09-30 The Sukhoi Su-25 Frogfoot is one of the world's most effective close air support aircraft and is the only true armored attack aircraft still in production. The State trials of the aircraft were completed in December 1980 and it became operational in the following year. During the production run a number of improvements were incorporated, derived from experience gained during operations in the Russian campaign against Afghanistan. Throughout the entire Afghan campaign, Su-25s launched a total of 139 guided missiles of all types against Mujahideen positions. On average each aircraft performed 360 sorties per year, which was considerably higher than any other combat type in Afghanistan. By the end of

the war, the number of Su-25s deployed to Afghanistan had reached around 50 and they had carried out a total of 60,000 sorties.

*Su-25 'Frogfoot' Units In Combat* Alexander Mladenov, 2015-04-21 Uncover 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 theaters in the middle East. Had the Cold War developed into a more serious conflict, the Su-25 would have been the main Soviet combat type facing US aircraft. Today it is widely accepted as the true successor to the types of specialized ground-attack aircraft that emerged during World War II. The book details the service history of the 'Frogfoot' during more than 30 years of combat using first-hand accounts and revealing archive photographs. The 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 Su-25 in full, demonstrating its strengths as a formidably armed, armored and very agile attack aircraft.

**Sukhoi Su-25 Frogfoot** Robert Pied, Nicolas Deboeck, 2021-06 Walk-around and action photography of the Su-25.

**Sukhoi Su-25 Frogfoot** S. Skrynnikov, 1994

**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-25* E. Gordon, Dmitrii Sergeevich Komissarov, 2020

*Su-25 Frogfoot in Action* Hans-Heiri Stapfer, Don Greer, Tom Tullis, 1992-01-01

*Rooks in Afghanistan Volume 1* Andrey Korotkov, 2022-09 Sukhoi Su-25, a much underrated, subsonic, twin-engine ground attack aircraft designed to provide close air support for the Soviet Ground Forces, saw combat in numerous conflicts. This book covers its operational history during the Afghan War of the 1980s, from operational trials to all-out counter-insurgency operations.

**Sukhoi Su-15** Yefim Gordon, Dmitriy Komissarov, 2015-04-30 A history of this supersonic Soviet interceptor, including useful information for model makers. In the late 1950s, the Sukhoi Design Bureau, already an established fighter maker, started work on a successor to its Su-9 and Su-11 single-engined interceptors for the national Air Defense Force. Similar to its predecessors, the new aircraft, designated Su-15, had delta wings; unlike the Su-9/Su-11, however, it had twin engines and lateral air intakes freeing up the nose for a powerful fire control radar. First flown in May 1962, the Su-15 officially entered service in 1965 and was built in several versions, the late ones having cranked-delta wings and a more capable radar. Being an air defense fighter, the Su-15 frequently had to deal with intruders. Unfortunately the aircraft gained notoriety in two separate incidents involving shoot-downs of Boeing airliners (a 707 in 1978 and a 747 in 1983), both of which were South Korean and had intruded into Soviet airspace on what were very probably clandestine spy missions. This book describes the developmental and service history of the Sukhoi Su-15, and contains a comprehensive survey of all model-making kits currently available on the market.

**Shturmovik OKB P.O. Sukhogo SU-25** Il'dar Bedretdinov, P. O. Sukhoi, 1994

Sukhoi Su-57-Op/HS Yefim Gordon, Dmitriy Komissarov, 2021 As early as 1979, Soviet aircraft designers started work on a program called I-90, a fighter

for the 1990s. Two Soviet aircraft design bureaus took on the task, Mikoyan and Sukhoi. Work began in 1983 but with the dissolution of the Soviet Union the project stalled. In 2002 the Russian government kicked off a new program under which Sukhoi began development of what was then known as PAK FA (Future Tactical Aviation Aircraft System). Known in house as the T-50, this aircraft strongly resembled the American F-22 Raptor in overall appearance. The first prototype took to the air on January 29, 2010 and in 2017 the fighter was allocated the service designation Su-57. In 2018 the aircraft had its combat debut when four of the prototypes were briefly deployed to Syria during the Russian campaign against the IS terror network in that country. Production was officially launched in May 2019, with the Russian Air Force having 70-plus on order. This work charts the development and trials history of the 1.44, Su-47 and Su-57, as well as other project versions that did not make it to the hardware stage. It is illustrated with numerous previously unpublished photos and drawings.

**Sukhoi Su-24 Fencer** E. Gordon, Yefim Gordon, Keith Dexter, 2005 The Fencer, with its distinctive three-position variable-geometry wings, is the Soviet counterpart to the American F-111, though somewhat smaller and lighter, and to a lesser extent the Tornado. Its origins certainly owed a lot to Soviet observation of the American TFX competition and the resulting swing-wing variable-geometry solutions. First flown in 1971, it entered service from 1974 as a replacement for the Yak-28 and remains an important part of the Russian VVS inventory, with several hundred having been in service. It is able to carry a wide range of air-to-surface missiles and is capable of carrying out precision attacks in hostile airspace at night or during poor weather. Much larger and more capable than previous Soviet aircraft, it combines great penetrative ability with a heavy and varied bomb load, but is such a versatile airframe that it has also been developed in various other versions including tactical bomber, electronic warfare, and reconnaissance. As usual with the Aerofax series, this book includes extensive detail of systems, equipment, weapons, etc., and a plethora of previously unpublished photographs and drawings.

**Sukhoi Su-27** Hans-Heiri Stapfer, 2007 The Soviet answer to the F-15 Eagle and response to the trend in US fighters design toward improved maneuverability. A supersonic all-weather counter-air fighter, the Su-27 is equipped with a look-down/shoot-down weapons system and beyond-visual-range air-to-air missiles. Its range, thrust-to-weight ratio and maneuverability are all significant improvements over earlier Soviet fighters; one of the world's foremost combat aircraft and a potent adversary. Over 200 color and b/w photos, line drawings and 10 color profiles; 80 pages.

*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.

**The Sukhoi Su-27** Andy Gröning, 2018-11-28 This detailed, illustrated look at the Russian Sukhoi Su-27 fighter aircraft features complete discussions of its design, construction, and operational use, as well as all technical systems and weapons. Developed in the 1970s as a match for the American F-15 Eagle, the aircraft remains one of the most important fighters in the current Russian arsenal, and has formed the basis for many variants including the Su-30, Su-34, and Su-35. Though larger than Russia's famed MiG-29, it is extremely maneuverable and considerably more powerful. The Su-27 can also fly at extremely high angles of attack--an ability it is fond of demonstrating at airshows, along with its legendary Cobra maneuver. The Su-27 remains in production, and nearly a dozen countries--including China, India, and Vietnam--currently operate this high-performance aircraft. The book is superbly illustrated with more than 210 color images, and includes more than thirty color aircraft profiles displaying color schemes.

**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 countries 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-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.

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facturing and a u s workforce the  
roadmap is intended to be the  
beginning of an evolving

**hendershott generator failed first  
attempt youtube** - Jan 28 2022

web nov 4 2014 here i am showing my  
failed attempt at a hendershott type  
generator lester hendershott 1899 1960  
was the inventor of the hendershott  
fuelless generator 1928

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2022

web for more than 30 years lester  
hendershott worked on an over unity  
device that was thought to be tapping  
into a magnetic force field  
interestingly hendershott seemed to be  
the only person capable of activating  
it but was unable to provide a  
satisfactory scientific explanation  
for why his creation worked

nevertheless the fuel less generator  
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hendershott rex research** - Dec 07 2022

web the hendershott fuelless motor is  
not a motor at all but a generator  
according to major thomas g lanphier  
commandant at selfridge field mich  
where he with lester j hendershott the  
inventor and d barr peat have been  
lester j hendershott generator motor  
rex research - May 12 2023

web lester j hendershottgenerator  
motor my name is mark hendershott  
lester j hendershott was my father  
lester was an inventor and in his  
many attempts at producing practical  
items he had a moderate success a few

times with electronic toys and had sold some of his ideas to small manufacturers

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web sep 18 2013 complete guide to building a hendershaw generator backed up by a step by step video schematics blueprints plus a complete e book guide see more bit.ly/2lrdaGb lester hendershaw

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web the first mention of this device refers to the range of 1927 1930 according to the available records hendershaw received a usable device with a power of 200 300 watts then for a short time lester is honored by the american press as a national hero but soon praise in his direction is replaced by accusations of charlatanism and fraud

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web sep 27 2013 february 18 2012 in the late 1920s lester j hendershaw manufactured his hendershaw generator generally through straightforward experimentation he wove together various level loops of wire all reactions

*the hendershaw generator blueprints blogger* - Jul 14 2023

web sep 26 2013 on february 28 1928 lester hendershaw made front page headlines across the country with his innovation of a fuel less generator hendershaw devised a workable plan to improve power with his gadget by cutting the earth's magnetic field as our typical generator cuts its own magnetic field

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web jan 10 2022 explore the examples and uses of the electrochemical series and discover oxidation of copper metals above hydrogen and examples of electrolysis updated 01 10 2022 create an account

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web electrochemistry is an area of chemistry that deals with the relations between chemical changes and electrical energy because an electrical current is a flow of electrical charges electrochemistry is primarily concerned with electron transfer reactions which are based on oxidation reduction phenomena

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web electrochemical series also referred to as activity series is a list that describes the arrangement of elements in the order of their increasing electrode potential values the series has been established by measuring the potential of various electrodes versus standard hydrogen electrodes she

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web electrochemistry recommended mcqs 123 questions electrochemical series 8 qs 1 q no standard reduction electrode potential of three metals x y and z are 1.2 V 0.5 V and 3 V respectively the reducing power of these metals will be 1 y > x > z

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web and hold up short answers more complex questions could be discussed in groups not all answers to questions are included in the video some of the questions will draw on prior learning or extend learners thinking beyond the video content student version the same questions are offered as a printable worksheet for learners

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web this is the last lab of the semester and there is no formal lab report instead this is an exploratory lab where you will design an

experiment using electrochemistry to determine the concentration of an unknown solution of copper ii

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web the electrochemical series is a list of elements ordered by their standard electrode potentials it tells us how easily each element is oxidised compared to a reference half cell the hydrogen electrode the electrochemical series is the basis behind all kinds of modern fuel cells and batteries

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web introduction chemical reactions involving the transfer of electrons from one reactant to another are called oxidation reduction reactions or redox reactions in a redox reaction two half reactions occur one reactant gives up electrons undergoes oxidation and another reactant gains electrons undergoes reduction

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web oct 22 2019 electrochemical series is defined as the arrangement of the elements or their ions in increasing or decreasing order of their standard electrode potential under standard conditions electrode potential is also reduction potential and it is calculated for many elements by comparing with standard electrode potential of hydrogen electrode

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web an experiment that will illuminate the mysteries of ions create a cell of electrolyte and metals and watch how the reactive and non reactive metals form ion this practical helps students to grasp the ideas around electromotive force found in chemicals this experiment should take 45 minutes

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web the electrochemical series equilibrium e volts 3 03 2 92 2 87 2 71 2 37 1 66 0 76 0 44 0 13 0 0 34 0 80 1 50 a note on the hydrogen value remember that each e value shows whether the position of the equilibrium lies

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web this lab provides the opportunity to understand the concepts and set up of electrochemical reactions understanding electrochemistry is important for its practical applications electrochemical cells are used to purify metals produced by the processes of

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web sep 6 2023 complete step by step answer the electrochemical series is defined as the arrangement of the elements in their increasing order of electrode potential values the electrochemical series is sometimes referred to as activity series

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web jun 24 2023 in the laboratory a typical electrochemical cell has the following general construction figure pageindex 1 schematic of a galvanic cell in figure pageindex 1 there are two electrode compartments each of which contains an electrode and the constituents of the half reaction

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web electrochemical cell 1 select the following red wire metal silver solution 1 0 m agno 3 aq black wire metal copper solution 1 0 m cu no 3 2 aq label the diagram below showing the following electrochemical cell that you built and observed label electrode with the metals show direction of electron flow show electrode polarity

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web 100 7 ratings as per published electrochemical series the electrode potentials are cu 0 34v al 1 66v zn view the full answer transcribed image text list the electrochemical series you developed from this lab based on

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web choose 1 answer choice a at equilibrium e c e l l text cell cell start text end text start subscript c e l l end subscript calculates to a value of 0 and the battery is considered dead because q becomes k e q text eq eq

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web quickly measure what you know about the electrochemical series with

this quiz and corresponding worksheet you must be familiar with such terms as electrolysis oxidation and reduction in order

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web this is a post lab for electrochemistry determining an activity series using galvanic cells these are the first 6 questions and this is my data but i only need answers for 7 and 8 1 using copper as the standard cu cu cell potential 0 determine the potential for each of the reactions between two metals

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