

Sukhoi Su 34

Hugh Harkins

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-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.

Su-34: Russia's 4th+ Generation Strike Fighter Hugh Harkins,2019-10-18 Su-34The Sukhoi Su-34 'Fullback' strike fighter was developed from the Sukhoi Su-27 'Flanker' air superiority fighter as

a 4th+ generation strike aircraft for service with the VKS - Russian Federation Air Force - from the second decade of the twenty first century. The Su-34 was designed to replace the Russian Federations aging fleet of Sukhoi Su-24M/2 variable-geometry strike aircraft and possibly the Su-24MR in the tactical reconnaissance role. Conceived under the T-10V program in the twilight years of the Soviet Union - Union of Soviet Socialist Republics - the design weathered the financial crisis that gripped Russia following the break-up of that union on 25 December 1991. The T-10V matured into an advanced strike aircraft, deliveries to the Russian Federation Air Force commencing in second half of the first decade of the twenty first century. This volume covers the program from conception to operational service with chapters describing the aircraft design, development, production, systems, weapons complexes and strike operations flown by the Russian Aerospace Group supporting the Syrian Arab Republic in the civil war that gripped that nation in the 2010's.

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-27 Series Theodore Gianna, 2023-09-20
Sukhoi Su-27 production began in 1982. The Su-27 project, however, started in 1969, when the United States declared intentions to construct a new fighter, the F-15 Eagle. The Soviet government wasted no time developing a response to counterbalance the latest American aircraft. The project was named the 'Promising Frontline Fighter Project'. Sukhoi was chosen as the project's winner, and the new frontline fighter was named the Su-27. After the Su-27 entered service with the Russian Air Force (VVS), the sky was the limit for Sukhoi and its family of fighters. The company churned out outstanding variants of the Su-27 series. The first variant is the Su-30 two-seat all-weather, air-to-air, and air interdiction missions multirole fighter. The Su-30, which evolved from the Su-27UB two-seat combat trainer, features updated avionics and can conduct ground attack missions. The following aircraft is the two-seat Su-32 fighter bomber. It was designed for round-the-clock, all-weather engagement of ground and surface targets at considerable distances from home bases. It also has precision-guided weapons to attack enemy aircraft in an intense counter-fire and ECM environment. The subsequent aircraft is the Su-33 all-weather carrier-based twin-engine air superiority fighter, designed primarily for use on the Russian 'Admiral Kuznetsov' heavy aviation cruiser. Next is the superb Su-34 multifunctional supersonic fighter bomber which is equipped with the 'Kinzhal' hypersonic missile system. Then comes the granddaddy of the series,

the Su-35S 4++ generation multirole super-maneuverable fighter, arguably the most visually striking fighter aircraft on the market today, and is an exceedingly lethal adversary in a combat situation. It possesses extreme super maneuverability and is exceptionally agile and quick. It could also strike targets on the ground. Lastly, there was the Su-37, the most maneuverable variant due to the 'Thrust Vector Control' (TVC) system, which allowed the aircraft to evade a stall scenario during low-speed situations when the control surfaces became ineffective. Using TVC, the aircraft could be controlled in these conditions by relying on engine thrust as opposed to airflow. The Su-37 project was terminated, and only one Su-37 was produced. Nonetheless, the Su-35s today continue to utilize TVC technology.

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-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.

Sukhoi Su-27 Yefim Gordon, 2007 In the late 1960s, the Soviet Union became aware that the U.S. was developing a new generation of jet fighters that had an exceptional range, heavy armor, and great agility in the air. These U.S. aircraft, the F-14 Tomcat, F-15 Eagle, F-16 Fighting Hornet, and F/A-18 Hornet dominated U.S. air power for three decades. In the context of the Cold War, the Soviets could not be seen to be lagging behind the Americans. Their response to these new U.S. aircraft was the Sukhoi Su-27 Flanker, which was designed as a long-range air superiority aircraft and interceptor. The first of the modified pre-production aircraft appeared in 1981, but it was not until 1984 that significant numbers of the Su-27 started to enter service. Eventually some 680 Su-27 were built for the Soviets, of which 400

remain in service with the Russian Tactical Air Force today. Outside of Russia, the Su-27 is also in service with the Chinese, and on the inventories of the air forces of Vietnam, Malaysia, Ethiopia, Indonesia, Syria, and Angola. This book describes in depth the development, operational career, history, and variants within the Su-27 family. The book incorporates color and black and white photos to portray some of the various camouflage schemes carried by the type in Soviet, Russian, and other air forces over the past two decades.

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.

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-7/Su-17 E. Gordon, Yefim Gordon, Dmitriy Komissarov, 2011 Following on from the collection of successful 'Famous Russian Aircraft' titles, Yefim Gordon has teamed up with Keith Dexter and Dmitriy Komissarov to produce this insight into the Sukhoi fighter bomber family. In the early 1950s the reborn aircraft design bureau headed by Pavel O. Sukhoi started its renewed activities by creating two aircraft sharing the same fuselage design and powerplant – the delta-wing T-3 and the swept-wing S-1. The former became the progenitor of several interceptors, starting with the Su-9; the other aircraft became the Su-7 tactical fighter but soon evolved into the Su-7B fighter-bomber. Known to the West as the Fitter, the Su-7B and its improved Su-7BM and Su-7BKL versions formed the backbone of the Soviet fighter-bomber aviation. They were also exported to many friendly nations – first and foremost to some Warsaw Pact member states (Poland and Czechoslovakia), as well as to non-aligned nations like India, Algeria,

Egypt, Iraq and others. The Fitter saw action in quite a few wars – the Indo-Pakistani border conflict of 1971, the Arab-Israeli wars. The initial Su-7 Fitter-A was superseded by the Su-17 which differed primarily in having variable-geometry wings. The prototype made its maiden flight in 1966; the production version completely supplanted the original Su-7 in Soviet Air Force service in the 1980s. The swing-wing Su-17 proved highly efficient in the Afghan War, earning the affection of the pilots who flew it. Its high combat capabilities were duly recognized abroad; apart from the Warsaw Pact (Poland, Czechoslovakia, East Germany, Hungary and Bulgaria), the Su-20 and Su-22 export variants were delivered to Egypt, Iraq, Peru, Yemen, Afghanistan and other nations. Iraq used its Su-22s against Iran in the war of 1980-88, and the ultimate Su-22M4 is still in service with the Polish Air Force – albeit with upgrades to make it compatible with NATO operational standards. This new title written by 3 aviation enthusiasts, including expert in the field Yefim Gordon, and is illustrated with a whole host of unpublished photos, as well as numerous line drawings and colour side views, which will undoubtedly be of interest to aviation enthusiasts and scale modellers alike. The in service and operators chapters feature insignia and unit badges/nose art worn by individual aircraft, making this a must have for any aviation and scale model enthusiast's collection.

Sukhoi Su-27 Flanker E. Gordon, Yefim Gordon, Peter Davison, 2006 Recognized as one of the

best fighters of the 1990s, the Su-27 Flanker is a single-seat supersonic interceptor that is often declared the finest and most successful fighter of the Cold War era. Designed by Sukhoi OKB, the imposing fighter quickly gained popularity and respect from countries all across the globe. Intended to be a direct competitor to the new generation of American fighters such as the F-15, the Su-27 was designed with outstanding range, heavy armament, and high agility. Excellent performance, handling, and serviceability have made the aircraft popular with its pilots and ground personnel alike. Equipped with an analog fly-by-wire control system, a full avionics suite, and up to 10 air-to-air missiles, the Flanker also features a rearward-facing radar between the engines, allowing it to fire at targets behind the aircraft. Outfitted with two Lyul'ka AL-31F turbofans, each 12,500 kgp (27,557 lb st) with afterburning, the Su-27's high thrust-to-weight ratio and refined aerodynamics allow superb flight characteristics at high angles of attack. Yefim Gordon and Peter Davison are the authors of several books on Soviet aircraft including the Specialty Press titles Mikoyan Gurevich MiG-29 Fulcrum and Mikoyan Gurevich MiG-15 Fagot. Over 300 photos illustrate the story of the Su-27. Topics covered include design, development, structural detail, international production, trials, upgrades and generations, comparisons, overseas sales, and much more. This book is a must have for all warbird enthusiasts!

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.

The Sukhoi Su-27/Su-33 Stanislaw Krzysztow 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-30 Super-Manoeuvrable Family Hugh Harkins,2016-03-15 The Su-30MKI family of super-maneuvrable multi-role combat aircraft share the same numerical designation as the Su-30MKK/MK2 family of combat aircraft although both design groups, despite being directly descendant from the first generation Su-27, took different evolutionary paths. Numerical designation and some first glance looks aside, the Su-30MKI family are fundamentally different designs from the Su-30MKK/MK2 family in terms of primary design role, internal systems and structure; certainly in regards to the latter the Su-30MKK/MK2 having more in common with the Su-27M (first generation Su-35)

than the Su-30M from which the Su-30MKI is clearly derived; this design clearly having evolved from the Su-30M which was developed from the Su-27UB two-seat operational conversion trainer variant of the Su-27S single-seat air superiority fighter. 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 and ergo the Su-30MKI 'super-maneuvrable' series is detailed. The various design models, the Su-30MKI for India, Su-30MKM for Malaysia, Su-30MKI(A) for Algeria and the domesticated Su-30SM (Russian CM) for Russia and Kazakhstan are described in detail, as are the weapons that can be employed by the respective variants. All technical information regarding the aircraft, systems and weapons have been provided by the respective manufacturers, as have many of the photographs and graphics. Certain elements of text, when pertinent, are taken 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'.

Mig-31 Foxhound Robert Pied, Nicolas Deboeck, 2020-06 A close up of the MiG-31 Foxhound. The first publication offering this much of detailed photographs of the Mach 3 Russian interceptor. Fuselage, landing gear, engine, wings and a unique close-up of the cockpit (both front and aft cockpit) of the standard version of the Mig-31 and the modernized MiG-31BM. Close-up of the weapons included, such as the R-33 and R-40

missiles, as well as the internal gun. The only book available with so much detail of this impressive jet!

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.

Russia Military Aircraft Alexandre Zanfirov, 2019-11-09 This is a comprehensive look at the current mix of Russian military aircraft, to include the Tupolev PAK DA stealth bomber and the Sukhoi Su-57 (Felon).

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'.

Soviet and Russian Military Aircraft in Africa

Yefim Gordon, Dmitriy Komissarov, 2013 From the outset, the export of revolution and Communist ideology had been one of the cornerstones of Soviet Russia's (and later the Soviet Union's) foreign policy and by the mid-1950s the export of Soviet arms expanded into Africa with Algeria being amongst the first African countries to receive Soviet combat aircraft. By the 1960s and 1970s, a large number of African states had gained independence and the Soviet Union increased supply. This situation persisted until the early 1990s when most of the former Soviet allies shed socialism and switched allegiance to the West. Having often been flown by foreign volunteer or mercenary pilots such as the Cubans in Angola and South Africans in Sierra Leone, Soviet/Russian military aircraft can now be seen in countries as varied as Algeria, Libya, the Congo, Ethiopia, Eritrea, Uganda, and Sudan. Combat types from the MiG-15 to the latest Su-30MK fighters, Su-24MK tactical bombers, Su-25 attack aircraft, Mi-24/25/35 helicopters and transports from the Antonov An-12 to the Il'yushin Il-76 can all be seen across Africa. Arranged by country and using previously classified sources, Soviet and Russian Military Aircraft in Africa includes comprehensive fleet lists of all known Soviet/Russian military aircraft together with their Chinese derivatives.

Highly illustrated with contemporary photographs, air force insignia and color profiles this book forms an invaluable reference for modellers, enthusiasts and aviation historians alike. As every conflict involving Egyptian aircraft has been fought in the Middle East, full details of those aircraft will feature in the forthcoming companion volume Soviet and Russian Military Aircraft in the Middle East.

Uncover the mysteries within Crafted by is enigmatic creation, Discover the Intrigue in **Sukhoi Su 34** . This downloadable ebook, shrouded in suspense, is available in a PDF format (*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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