

# **Su 27k**

**Dennis R. Jenkins, Jay Miller**

## 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 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-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/Su-33* Stanislaw 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** 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 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-27 Flanker Jon Lake, 1994

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-27 Flanker - Warbirdtech V. 42 Yefim

Gordon, Peter Davison, 2006-02 The photos in this edition are black and white. 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!

**Jet Fighters** Jim Winchester, 2011-12-15 Presents illustrations, historical notes, facts, and specifications for jet fighters, ranging from the earliest designs of the mid twentieth century to some of the most modern fighters in use today.

**Su-27** Andrei Fomin, 2000 Beretter om udviklingen og anvendelsen af det sovjetiske jager- og jagerbombefly, Su-27 Flanker, samt heraf udviklede varianter.

**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.

**Russia Air Force Handbook** Ibp Usa,USA International Business Publications,2007-02-07 Russia Air Force Handbook

Sukhoi Su-27 Flanker Dennis R. Jenkins,Jay Miller,1991

**The Military Balance 2009** IISS,2018-01-17 The Military Balance is The International Institute for Strategic Studies annual assessment of the military capabilities and defence economics of 170 countries worldwide. It is an essential resource for those involved in security policymaking, analysis and research. The book is a region-by-region analysis of the major military and economic developments affecting defence and security policies, and the trade in weapons and other military equipment. Comprehensive tables detail major military training activities, UN and non-UN deployments, and give data on



key equipment holdings and defence-expenditure trends over a ten year period. Key Features: Region-by-region analysis: major military issues affecting each region, changes in defence economics, weapons and other military equipment holdings and the trade in weapons and military equipment Comprehensive tables: key data on weapons and defence economics, such as comparisons of international defence expenditure and military manpower Analysis: significant military and economic developments Wallchart: detailed world map that shows current areas of conflict, with explanatory tables. This new edition of The Military Balance provides a unique compilation of data and information enabling the reader to access all required information from one single publication.

**Sukhoi Su-27** Hans Halberstadt,1992 The Sukhoi Su-27 is one of the world's greatest fighter-interceptor aircraft, designed to penetrate deep behind enemy defenses to destroy the all-important AWACS and airborne refueling aircraft that are the keys to Western air superiority. The Flanker is a thoroughly modern interceptor with advanced turbofan engines and fly-by-wire controls that give it unbelievable agility for its size. Since its debut at the 1989 Paris air show where it stunned the audience with an unprecedented maneuver dubbed the Pugachev Cobra, we have seen many beautiful photographs of the aircraft during demonstration flights and on the flight line, but what else do we know about this fascinating new Russian fighter? Little, until now. This book reveals every detail of the Su-27 and fighter operations at a Russian combat base. - Back cover.

The World's Most Powerful Military Aircraft Thomas Newdick,2016-12-15 Ever since man first took to the air, combat aircraft have been at the cutting edge of aviation technology, resulting in some of the greatest and most

complex designs ever built. *The World's Greatest Military Aircraft* features 52 of the most important military aircraft of the last hundred years, including everything from biplane fighters and carrier aircraft to tactical bombers, transport aircraft, multirole fighters, strategic strike aircraft, and stealth bombers. Each entry includes a brief description of the model's development and history, a profile view, key features, and specifications. Packed with more than 200 artworks and photographs, this is a colorful guide for the military aviation enthusiast.

*Soviet V/STOL Aircraft* Michael J. Hirschberg, 1997 This important case study reports on the V/STOL development activities in the Soviet Union. As in the West, the Soviets also began using flying test rigs in the late 1950s. By combining the lift engines with modifications to existing engines, the Soviets were able to deploy the Yak-38 *Forger* only two years after the *Harrier*. The *Forger* was in service for 15 years before the political situation forced its retirement from service. Packed with illustrations, references, glossaries, and bibliographies, this case study is a necessary resource for the studies of V/STOL aircraft and systems designers.

**The Battleship Book** Robert M. Farley, 2015-12-17 From the moment when the launching of HMS *Dreadnought* made every capital ship in the world obsolete overnight, we have been fascinated with these powerful surface combatants. Here Robert M. Farley looks at the history and folklore that makes these ships enduring symbols of national power—and sometimes national futility. From Arizona to Yamato, here are more than sixty lavishly illustrated accounts of battleships from the most well-known to the most unusual, including at least one ship from every nation that ever owned a modern battleship. Separate essays and sidebars look at events and lore that greatly

affected battleships.

**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.

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