

# **Soviet Polikarpov I 16 Fighter V5 Aircraft Paper Model.jpg**

**Gordon Yefim,E. Gordon,Bill Gunston**

**I-16 Rata** Oleg Pototskiy,2021-08-31 This book introduces the reader to a remarkable fighter aircraft, that which had a great influence on both the pre-war development of Soviet aircraft, and the military developments that occurred in the first few months of the war between Germany and the USSR.

King of Fighters -- Nikolay Polikarpov and His Aircraft Designs  
Mikhail Maslov,2021-01-19 In the century-long history of the conquest of the sky there have been a number of outstanding personalities. Among them is the name of designer Nikolay Polikarpov (1892-1944), which is inseparably associated with the best achievements of the Russian and Soviet aviation. His practical activity in the aircraft industry began upon graduation from the Petersburg Polytechnic Institute in 1916. Aged 25, Polikarpov was sent to the Russo-Baltic Wagon Factory (RBWF), where the four-engined Ilya Muromets bombers designed by Igor Sikorsky were being built at that time. Later, beginning from August 1918, he worked in Moscow at the Dux aircraft factory. For several years, he was engaged in improving products manufactured by the factory, and upgrading production aircraft to accommodate the available engines, equipment and materials. From 1922, Polikarpov focused his attention on fighter aircraft, creation of which was a priority for him during the following years. The first of them was the IL-400 monoplane, designated I-1 by the Air Force. The monoplane was followed by biplanes including the 2I-N1 (1925), the I-3 (1927), the D-2 (1928), and the I-6 (1929). It was specialization in fighter aircraft which, from then on, became his mission in life. At the peak of his career as a designer, Polikarpov was informally styled 'the King of Fighters', which was quite in line with the level of his merits and achievements. In the 1930's, the TsKB-3 (I-15) and TsKB-12 (I-16) fighters were designed under Polikarpov's supervision. These aircraft were the designer's undoubtable success. They also were the main combat fighters in service with the Red Army Air Force. For the creation of the I-15 and the I-16

fighters, Polikarpov was awarded the Order of Lenin in 1935, and the Order of the Red Star a year later. In the 1930's, Nikolay Polikarpov devised a lot of aircraft of various designs, the majority of which can be described as 'advanced' and 'innovative'. In 1940, Polikarpov was granted the degree of the Doctor of Engineering and the title of the Chief Designer of the highest category. In the same year, he was awarded the title of the Hero of Socialist Labor. A year later, he became a recipient of the Stalin Prize. The gifted Soviet engineer was destined to live only 52 years. On 30 July 1944, Nikolay Polikarpov died of a rapidly evolving oncological disease. To venerate his memory, the U-2 trainer has ever since been designated the Po-2 (Polikarpov-2). The book which is presented to the reader describes all Polikarpov's original projects, both those put into reality and unimplemented ones. It took the author many years to prepare for the creation of the book. The author studied materials on the respective topics in all Russian archives, and made use of remembrances of Polikarpov's contemporaries and publications by other researchers. For purposes of clarity and in order to facilitate publication, the author split the book on Nikolai Polikarpov's aircraft into two parts - the 'Biplane Era' and the 'Monoplane Era'. Indeed, during the designer's activity from 1918 through to 1932, he devoted himself predominantly to creating biplanes. For the 1920's, the biplanes were a preferable option; they were more common, more reliable, better studied, and even more desirable for the Red Army Air Force. The first design of the IL-400 (I-1) monoplane fighter appeared as early as 1923; however, it was through its novelty and unpredictability that the aircraft failed to achieve the deserved success. It should be noted that the U-2 (Po-2) and the R-5 biplanes, which were created during that period, became one of the best Polikarpov aircraft, and brought him recognition as a reputed designer. In the 1930's, Nikolai Polikarpov's activity reached its pinnacle. It was during that period that he created his advanced monoplanes such as the I-16, the I-17, the VIT-2, and

others. He continued his fruitful and quite successful activity in the area of creating modern aircraft during the war of 1941--45 as well.

**King of Fighters** Mikhail Maslov, 2019-07 Nikolay Polikarpov (1892-1944) is inseparably associated with the best achievements of Russian and Soviet aviation. His practical activity in the aircraft industry began upon graduation from the Petersburg Polytechnic Institute in 1916. In the 1930s, the TsKB-3 (I-15) and TsKB-12 (I-16) fighters were designed under Polikarpov's supervision. These

Soviet Fighters of the Second World War Jason Nicholas Moore, 2021-07-30 The Red Air Force had just started to re-equip with modern monoplane fighters when the Germans opened Operation Barbarossa, the invasion of the Soviet Union. Hundreds of fighters were destroyed in the first few days, but many of these were obsolete biplanes. Soviet Fighters of the Second World War details fighter development from the dark days of Barbarossa to eventual triumph over Berlin. Starting with outdated aircraft such as the Polikarpov Po-2 biplane and monoplane fighters, the Soviets then settled on two main lines of development: the inline-engine LaGG-3 and its radial-engine derivatives, the La-5 and La-7, and the inline-engine Yakovlev fighters, which were produced in greater numbers than any other series of fighters. Not only are these aircraft accurately described, but experimental fighters are also dealt with. In addition, colour profiles illustrate these aircraft in terms of design, camouflage and markings. From the I-15bis biplane of the late 1930s to the superb La-7 and Yak-3 fighters of the last year of the war, all Red Air Force fighters are covered in this comprehensive volume.

Polikarpov Fighters in Action Hans-Heiri Stapfer, 1996  
Beskrivelse af det russiske Polikarpov monoplan jagerfly.

**Soviet Heavy Fighters 1926-1949** Dariusz Paduch, 2021-12-31 The history of Dornier aircraft in the Kingdom of Serbs, Croats, and Slovenes.

*Fundamentals of Aircraft and Rocket Propulsion* Ahmed F. El-

Sayed,2016-05-25 This book provides a comprehensive basics-to-advanced course in an aero-thermal science vital to the design of engines for either type of craft. The text classifies engines powering aircraft and single/multi-stage rockets, and derives performance parameters for both from basic aerodynamics and thermodynamics laws. Each type of engine is analyzed for optimum performance goals, and mission-appropriate engines selection is explained. Fundamentals of Aircraft and Rocket Propulsion provides information about and analyses of: thermodynamic cycles of shaft engines (piston, turboprop, turboshaft and propfan); jet engines (pulsejet, pulse detonation engine, ramjet, scramjet, turbojet and turbofan); chemical and non-chemical rocket engines; conceptual design of modular rocket engines (combustor, nozzle and turbopumps); and conceptual design of different modules of aero-engines in their design and off-design state. Aimed at graduate and final-year undergraduate students, this textbook provides a thorough grounding in the history and classification of both aircraft and rocket engines, important design features of all the engines detailed, and particular consideration of special aircraft such as unmanned aerial and short/vertical takeoff and landing aircraft. End-of-chapter exercises make this a valuable student resource, and the provision of a downloadable solutions manual will be of further benefit for course instructors.

*Entangled Life* Merlin Sheldrake,2021-04-13 NEW YORK TIMES BESTSELLER • A “brilliant [and] entrancing” (The Guardian) journey into the hidden lives of fungi—the great connectors of the living world—and their astonishing and intimate roles in human life, with the power to heal our bodies, expand our minds, and help us address our most urgent environmental problems. “Grand and dizzying in how thoroughly it recalibrates our understanding of the natural world.”—Ed Yong, author of *An Immense World* ONE OF THE BEST BOOKS OF THE YEAR—Time, BBC Science Focus, The Daily Mail, Geographical, The Times, The Telegraph, New

Statesman, London Evening Standard, Science Friday When we think of fungi, we likely think of mushrooms. But mushrooms are only fruiting bodies, analogous to apples on a tree. Most fungi live out of sight, yet make up a massively diverse kingdom of organisms that supports and sustains nearly all living systems. Fungi provide a key to understanding the planet on which we live, and the ways we think, feel, and behave. In the first edition of this mind-bending book, Sheldrake introduced us to this mysterious but massively diverse kingdom of life. This exquisitely designed volume, abridged from the original, features more than one hundred full-color images that bring the spectacular variety, strangeness, and beauty of fungi to life as never before. Fungi throw our concepts of individuality and even intelligence into question. They are metabolic masters, earth makers, and key players in most of life's processes. They can change our minds, heal our bodies, and even help us remediate environmental disaster. By examining fungi on their own terms, Sheldrake reveals how these extraordinary organisms—and our relationships with them—are changing our understanding of how life works. Winner of the Wainwright Prize, the Royal Society Science Book Prize, and the Guild of Food Writers Award • Shortlisted for the British Book Award • Longlisted for the Rathbones Folio Prize

*"Smart Technologies" for Society, State and Economy* Elena G. Popkova, Bruno S. Sergi, 2020-10-15 This proceedings book presents a comprehensive view of "smart" technologies and perspectives of their application in various areas of economic activity. The authors of the book combined the results of the cutting-edge research on the topic of "smart" technologies in the digital economy and Industry 4.0 and developed a unified scientific concept. The current experience has been considered, and the prospects for the application of "smart" technologies in society to promote social advance have been identified. "Smart" technologies in public administration and law, as well as the experience in development of e-government, have been

examined. “Smart” technologies in business activity have been studied, and the transition from digital business to business 4.0 has been justified. The book contains the collection of the best works following the results of the 13th International Research-to-Practice Conference “Smart Technologies” for society, state and economy which was run by the Institute of Scientific Communications (ISC) and was held on July 2–3, 2020. The target audience of this book includes researchers investigating fundamental and applied problems of development of “smart” technologies, as well as concerned parties outside the academic community, in particular, representatives of the digital society, high-tech business entities and officials regulating the digital economy and Industry 4.0.

**Soviet Bombers of the Second World War** Jason Nicholas Moore, 2019-09-08 Soviet bombers were a varied lot during the Second World War, ranging from single-engined biplanes such as the 1920's era Polikarpov U-2 to the excellent and modern twin-engined Tu-2 medium bomber. Although the use of four-engined strategic bombers was mostly limited to use of the huge Pe-8 bomber, the Soviets used many other aircraft for both strategic and tactical bombing. As the bombers of the Red Air Force were mainly tasked with supporting the Red Army, most of the bombers were used for tactical bombing, attacking tanks, troop convoys, trains, and airfields. This book will deal with both strategic bombers and tactical bombers, but will concentrate on the smaller tactical bombers, as this is where the Red Air Force's emphasis lay. Such types as the Il-4, the Su-2, the aforementioned Tu-2, and the most important bomber of all, the Il-2 Shturmovik attack bomber, will be described in great detail, including not only details on the aircraft themselves, but how they were deployed in combat. The one truly strategic bomber, the Pe-8, will not be forgotten, and neither will the comparatively tiny U-2 biplane, which was so effective in its use as a night-time nuisance raider that the Germans copied the tactic wholesale. Accurate colour profiles in

some number will accompany the text in this comprehensive work on Soviet bombers.

*Military Aircraft* Amber Books Ltd, Jim Winchester, 2010-04-15 A highly illustrated guide to military aircraft from World War I to the present day. Featuring all of the most famous aircraft from around the world, such as the Supermarine Spitfire, Junkers Ju 87 Stuka, North American Aviation F-86 Sabre, and McDonnell Douglas F-4 Phantom. Hundreds of artworks show each aircraft in profile in full color. Each aircraft is accompanied by a detailed caption and a specification box listing dimensions, powerplant, weights, armament, and performance. -- Back cover.

**Oil spill in the Kerch Strait**, 2008 The report lists recommendations to help Ukraine complete its recovery from the oil spill that occurred in the Kerch Strait in November 2007, when a severe storm caused the Volgoneft-139 to release over 1,300 tonnes of fuel oil into the sea. The resulting extensive physical damage to the sea and land led to property losses, contamination of the marine and coastal flora and fauna, as well as high clean-up costs and significant revenue losses for local industries.

*Soviet X-planes* Gordon Yefim, E. Gordon, Bill Gunston, 2000 This is the first book to collect stories of the most important Soviet aircraft, including experimental machines from the early 1900s through to the latest Russian prototypes of today. About 150 types are described, each with data and many with extensive drawings.

**Indo-pakistani War of 1971** Ravi Rikhye, 2020-05-19 In 1947, India and Pakistan were partitioned by their former colonial ruler, Great Britain. A job that should have taken ten-years was done in a few months. Britain, drained by two world wars in 40-years, no longer had the will or the money to guide the subcontinent to a peaceful partition by consensus. More importantly, the subcontinent was impatient for Britain's departure. The British left in haste, leaving unresolved the issue of Kashmir. This triggered five wars between the new states: 1947-48, 1965, 1971, 1999 and continuing



insurgency/counterinsurgency that began in 1987. Two other potential wars were narrowly averted in 1987-88 and 2001-02, and a limited one fought in 1999. Since the basic issue remains unresolved, the next war may be only a matter of time. In 1970, East Pakistan voted for independence and armed rebellion. A quick and nasty counterinsurgency suppressed the rebellion. India, seizing the chance to change the balance of power, first backed East Pakistan, then on 21 and 22 November 1971 invaded with eight divisions. India planned also to attack West Pakistan to recover Kashmir, but at the last moment the offensive was called off due to Soviet pressure. Pakistan attacked pre-emptively, and an all-out war resulted. East Pakistan was overrun by India on 16 December; the US and Soviet forced a ceasefire in the West only a day later. For the first time in 800 years, a predominantly Hindu army defeated a Muslim army. Through extensive use of official records and participant recollections, rare photography and authentic colour profiles, Ravi Rikhye tells the captivating story of the biggest military conflict fought between India and Pakistan to date, and the war that resulted in emergence of Bangladesh as an independent nation.

**Japanese Secret Projects** Edwin M. Dyer, 2009 Surprisingly, secret Japanese planes of World War II remain an area that has been largely ignored due to scarcity of information. They do, however, have a large base of interest as unlike the majority of secret Luftwaffe programs that were resigned to the drawing board, the vast number of aircraft featured within this book actually flew or were in development. The book begins with an overview of the IJN and IJA through the early years to 1945, and their secret technical exchanges with the Luftwaffe throughout the war. It is divided into two sections dedicated to the two armed forces, with a total of 34 aircraft examined, each with its history, performance, and combat records laid out in an easy to read fashion. The book provides photographs, technical drawings, and stunning color renditions of the aircraft in combat. Notable

emphasis is placed upon the supersonic kamikaze aircraft, the Amerika bomber, and the ways in which the Japanese improved on German technology, particularly the Me 262 and Komet. Secret Japanese armaments are also covered in detail, with information uncovered on guided missiles, rockets, and cannons. A gripping read for aviation and military enthusiasts around the world!

Afgantsy Rodric Braithwaite,2013-09-11 The story of the Soviet occupation of Afghanistan is well known: the expansionist Communists overwhelmed a poor country as a means of reaching a warm-water port on the Persian Gulf. Afghan mujahideen upset their plans, holding on with little more than natural fighting skills, until CIA agents came to the rescue with American arms. Humiliated in battle, the Soviets hastily retreated. It is a great story-but it never happened. In this brilliant, myth-busting account, Rodric Braithwaite, the former British ambassador to Moscow, challenges much of what we know about the Soviets in Afghanistan. He provides an inside look at this little-understood episode, using first-hand accounts and piercing analysis to show the war as it was fought and experienced by the Russians. The invasion was a defensive response to a chaotic situation in the Soviets' immediate neighbor. They intended to establish a stable, friendly government, secure the major towns, and train the police and armed forces before making a rapid exit. But the mission escalated, as did casualties. Braithwaite does not paint the occupation as a Russian triumph. To the contrary, he illustrates the searing effect of the brutal conflict on soldiers, their families, and the broader public, as returning veterans struggled to regain their footing back home. Now available in paperback, Braithwaite carries readers through these complex and momentous events, capturing those violent and tragic days as no one has done before.

*Aircraft* DK,2022-04-26 Take an action-packed flight through the history of aircraft and discover the intrepid pioneers who made a dream reality Uncover the engineering behind more than 800 aircraft models, from military jets to commercial planes. This

visual history book captures the fascinating story of airplanes and aviation, and how their groundbreaking discovery has influenced the 21st Century. Inside the pages of this aircraft book, you'll discover:

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- Showcases on particularly celebrated aircraft – such as the Supermarine Spitfire and Concorde – in beautifully photographed “virtual tour” features
- The stories of the engineers and manufacturers that created marques like Boeing and Airbus

Take to the skies Modern flight has opened the world up to new opportunities and paved the way for the development of advanced research and technology. But, what made it so groundbreaking? This book uncovers the stories behind the first airplane models, the development of flight, and brings you to present-day marvels such as the Gypsy Moth and Supermarine Spitfire. The Aircraft Book is filled with stats, facts, and photographs that create a visual tour and allows you to see inside key commercial and military aircraft models from the exterior to the cockpit. Aviation enthusiasts will also be captivated by the manufacturer of aircraft engines and how famous models like Boeing and Lockheed became household names. Love history? Discover even more with DK! DK's The Definitive Visual History series is an iconic celebration of design and history. Packed with fascinating facts and statistics, these high-quality visual guides cover everything from history and notable designs to the people and technology that made it possible. Books in this series include The Car Book, The Train Book, The Tank Book, and so much more.

**Soviet Rocket Fighters** Yefim Gordon, 2006-09-29 Soviet Rocket Fighters covers the fascinating subject of Soviet aircraft designers' efforts to achieve ever-faster speeds by using liquid-propellant rocket motors. This book describes in detail several Soviet attempts at these designs, their testing, and the many

difficulties encountered. Also gives an account of the tests of captured Messerschmitt Me 163 rocket-powered interceptors in the Soviet Union.

**MiG-23/27 Flogger** E. Gordon, Yefim Gordon, Keith Dexter, 2005 The latest title in the renowned Aerofax series is a detailed history of the development and operation of the Soviet interceptor, the MiG-23/27, code named in the west, Flogger. In the era of the Cold War, the military planners on both sides of the Iron Curtain were very aware of the threat to their security both from bombers which could carry nuclear weapons and from spyplanes. Thus it was deemed essential to have fast fighter aircraft which could intercept and destroy such incoming threats. The MiG-23 was developed to succeed the MiG-21 as the standard Soviet interceptor. It was a major advance on the earlier aircraft. Its swing-wing configuration was a generation on from its predecessor. Deliveries began in 1972 and in excess of 3,000 aircraft were built before production ended in 1986. As was the case with many Soviet types, the MiG-23 was widely exported to satellite or friendly countries. The MiG-23 saw service with air forces in the Middle East, the Far East, Cuba and Eastern Europe and a licenced version was built in India. The book also covers the history and operation of the MiG-27, a development of the MiG-23. This was a tactical strike aircraft with a completely redesigned forward fuselage which was produced in significant quantities from the late 1970s onwards. Both of these important types will be covered in the usual and well regarded Aerofax style which combines a thoroughly researched narrative with many photographs. This volume in the series will complete the Aerofax coverage of MiG design bureau's major modern types.

**Lavochkin Fighters of the Second World War** Jason Moore, 2017-03-13 The Lavochkin fighters remain little known in the West, although with the Yakovlev fighter series they were the backbone of the Red Air Force fighter force during the Second World War. The author rectifies that with this comprehensive

history of these fighters. With this book he describes in great detail the three main variants of the Lavochkin fighter series during the Second World War: the only partially successful LaGG-3 inline-engined fighter, the successful radial-engined La-5 fighter, and the superb radial engined La-7 fighter, one of the best piston-engined fighter aircraft of the entire Second World War. Both the design and history of these fighters are featured, including how the mediocre inline engined LaGG-3 was turned into a top notch fighter by the replacement of the Klimov inline engine by the Shvetsov M-82 radial engine. Besides describing the wartime designs he includes a section on the postwar successors to the Second World War fighters, the completely new all metal La-9 and La-11, which saw extensive postwar service. Accurate color profiles illustrate all variants.

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