

Mig 21

E. Gordon,Yefim Gordon,Bill Gunston

MiG-21 Units of the Vietnam War István Toperczer,2012-11-20 Having honed their piloting skills on the subsonic MiG-17 and transonic MiG-19, the Vietnamese Peoples' Air Force (VPAF) received their first examples of the legendary MiG-21 supersonic fighter in 1966. Soon thrown into combat over North Vietnam, the guided-missile equipped MiG-21 proved a deadly opponent for the USAF, Navy and Marine Corps crews striking at targets deep into communist territory. Most of the VPAF's 12+ aces scored their bulk of their kills in the MiG-21, which was then the best fighter produced by Russia's premier fast jet manufacturer, Mikoyan Gurevich. Well over 200 MiG-21s were supplied to the VPAF, and the numerous models and the schemes they wore are chronicled in great detail in this unique volume.

Mikoyan-Gurevich MiG-21 Pilot's Flight Operating Instructions Nato,2008-09 The Mikoyan-Gurevich MiG-21 is known in NATO circles as the 'Fishbed'. Designed as a Mach 2.0 interceptor, the plane holds the distinction of being produced in greater numbers than any other jet aircraft. The Fishbed flew in combat in Vietnam, where it held its own against the F-105 Thunderchief. During the 1973 Arab-Israeli War, 17 Israeli aircraft were shot down, for a loss of six Egyptian MiG-21s. The plane also flew in combat in the Indo-Pakistani War of 1971, during the Soviet invasion of Afghanistan, and in Yugoslavia. Today, over 28 of the world's air forces continue to fly MiG-21s. Originally printed by NATO, this English-language handbook provides a glimpse inside the cockpit of this incredible plane. The manual was recently declassified and is here reprinted in book form. Care has been taken to preserve the integrity of the text

Mikoyan-Gurevich MiG-21 Alexander Mladenov,2014-06-20 The MiG-21 (NATO reporting name Fishbed) firmly holds the title of the world's most widely built and used jet fighter, with more than 10,000 units rolling off the lines of three plants in the former Soviet Union. The type was also built under license in India and Czechoslovakia, and without license in China until the late 2000s. Designed as a Mach-2 light tactical fighter, its original prototype, the Ye-6/1, was first flown in 1958. The first production variant of the type, designated the MiG-21F, appeared in 1960 and its improved sub-variant, the MiG-21F-13 (Type 74, NATO reporting name Fishbed-C), was made available for export by 1961. It was a simplified daytime short-range, clear-weather interceptor and tactical fighter.

MiG-21 Aces of the Vietnam War István Toperczer,2017-09-21 Having learned their trade on the subsonic MiG-17, pilots of the Vietnamese People's Air Force (VPAF) received their first examples of the legendary MiG-21 supersonic fighter in 1966. Soon thrown into combat over North Vietnam, the guided-missile equipped MiG-21 proved a deadly opponent for the US Air Force, US Navy and US Marine Corps crews striking at targets deep in communist territory. Although the communist pilots initially struggled to come to terms with the fighter's air-search radar and weapons systems, the ceaseless cycle of combat operations quickly honed their skills. Indeed, by the time the last US aircraft (a B-52) was claimed by the VPAF on 28 December 1972, no fewer than 13 pilots had become aces flying the MiG-21. Fully illustrated with wartime photographs and detailed colour artwork plates, and including enthralling combat reports, this book examines the many variants of the MiG-21 that fought in the conflict, the schemes they wore and the pilots that flew them.

The MiG-21 Holger Müller,Motorbuch,2019-01-28 This book presents a detailed look at the design and development of the legendary MiG-21, including its powerplant, armament, upgrades, and variants. The Mikoyan-Gurevich MiG-21 was the standard fighter/interceptor aircraft of the Warsaw Pact and it stood up to its western counterparts for decades. This single-engine, supersonic jet fighter entered service in 1959, and in addition to the Soviet Union, almost every eastern European military operated the Mach 2 fighter, including East Germany (which flew more than 500 aircraft of this type), Poland, Romania, Yugoslavia, and others. With approximately 11,000 of all types built, the MiG-21 has been produced in greater numbers than almost any other combat aircraft in history, and has also seen combat with such countries as Vietnam, China, Syria, Iraq, Angola, and others.

MiG-21 "FISHBED" István Toperczer,2023-08-17 Using archival photographs sourced directly from Vietnam, specially commissioned diagrams and combat accounts from veterans, István Toperczer reveals how the MiG-21 defended Vietnam between 1966 and 1968. One of the most successful communist jet fighters ever built, the MiG-21 Fishbed was involved in a series of deadly duels with American fighters over North Vietnam as the USAF and US Navy ramped up strike missions during Operation Rolling Thunder, culminating in the destruction of over 70 US aircraft for the loss of 35 Fishbeds. Having honed their skills on the subsonic MiG-17, pilots of the Vietnam People's Air Force received their first examples of the legendary MiG-21 supersonic fighter in 1966. Soon thrown into combat over North Vietnam, the guided-missile-equipped MiG-21 proved a deadly opponent for the American crews striking at targets deep into communist territory. Although the communist pilots initially struggled to come to terms with the fighter's air search radar and weapons systems, the ceaseless cycle of combat operations quickly honed their skills. The best fighter then available to the VPAF, more than 200 MiG-21s (of various sub-types) were supplied to the North Vietnamese. In this study, leading VPAF authority István Toperczer analyzes the tactics used by the MiG-21 pilots over the bitter fighting in North Vietnam during Rolling Thunder. The highspeed 'hit and run' attacks employed by the communist pilots proved to be very successful, with both R-3S air-to-air missiles and heavy-caliber cannon inflicting a rising toll on American jets. Using first-hand accounts from MiG-21 pilots, battlescene artwork, combat ribbon diagrams, and armament views, the author details the important role played by the Fishbed in the defense of North Vietnam.

Thunderstorm - Nuclear carrier MiG-21's in the Warsaw Pact Laszlo Becz,2018-11-01 The nearly 50-year history of the MiG-21 has many exciting and unpublished topics for both the flight enthusiasm and historians alike. One such topic is the ability of the airplane to carry a tactical nuclear bomb, even though its official classification was only a fighter aircraft. The successful introduction of a specialized version of the MiG-21 in the second half of the 1960s progressively expanded the nuclear potential of frontal aviation. In the '70s the Soviet Air Force command requirements were to the new type of MiG-21 aircraft whether intended for a nuclear or conventional mission will all be technically capable of nuclear bomb delivery. At some time - after the PFM manufacturing finished in 1969 - immediately start to design and develop new modular special equipment for the upcoming type of MiG-21's that widespread the MiG-21 family nuclear capability. This book tries to summarize all of the valuable information, documents, and photographic evidence that the author collected in the last 15 years about nuclear carrier MiG-21. The publication is focusing on the technical requirements, how the airplane became a nuclear carrier, how it's operated, how their special weapons handled, which equipment required for tactical nuclear bomb delivery. Contain more than 200 photos, 3D renders, drawings and pictures. In addition, the illustrations include many unpublished photographs.

Mikoyan-Gurevich Mig-21 Theodore Gianna,2023-02-14 The MiG-21 was the first supersonic fighter from the Soviet Union. It was first built in the mid-1950s, around the same time as the US Century Series jet fighters, the F-100, F-101, F-102, F-104, F-105, and F-106. However, the MiG 21 would outlive all those fighters. The three largest MiG factories in the USSR manufactured the MiG-21s in many variants. The Moscow Gorki plant (no.21) saw the most extensive production; 5,278 units. The second facility, also in Moscow, was the 'Znamya Truda' (Moscow Aircraft Production Association) plant, which produced 3,203 units, and the no. 31 plant in Tbilisi, Georgia, built 1,677 units. Production lasted 27 years, from 1959 until 1986. MiG fighters for internal and export use totaled an amazing 10,158 MiG-21s built, including the last of a great breed, 2,030 MiG-21bis fighters, and 1,133 MiG-21 UM 'Mongol' training versions. It was the most mass-produced supersonic fighter aircraft in aviation history, and it still holds that title.Although the MiG-21 was an excellent jet fighter, one aircraft had its measure, the McDonnell Douglas F-4 Phantom. The air battles that took place between the two rival jets during the long Vietnam conflict are legendary. This book devotes a section on the MiG's operations in the Vietnam

War.

Mikoyan Gurevich Mig-21 Fishbed – Warbirdtech Gordon Yefim,Peter Davison,2007-02 The photos in this edition are black and white. The Mikoyan-Gurevich MiG-21 Fishbed, a lightweight air-combat fighter, is one of the most famous military aircraft in the world. No other warplane has been manufactured in such large numbers (over 10,000 in the Soviet Union and about 2,000 in China and India) since World War II. Nor has any other fighter served with so many air forces (the current count is 56). This global success was the MiG design bureau's fourth in succession in the immediate postwar era.Powered by one Tumansky R-11F-300 rated at 12,675 lb (w/ afterburner), the MiG-21 was easy to maintain, tough in the harshest environments, and very affordable. It was designed to climb fast to high altitudes, at all heights, and to excel in close combat. This book covers all MiG-21 upgrades and variants, as well as combat and armament specifications. Over 300 photos are used to illustrate the story of the MiG-21. It features technical diagrams and gives a comprehensive development history. Other topics include design, development, structural detail, international production, trials, comparisons, and much more.

FIGHTER PERFORMANCE IN PRACTICE: Phantom versus MIG-21 – How to do split-S in MiG-21 within 3000 ft: Unexploited low speed maneuverability ,

Mirage III vs MiG-21 Shlomo Aloni,2012-06-20 Although the opposing forces of the Six Day War were both flying comparable third-generation Mach 2 jet fighters, the pilots were trained to different standards, and were expected to utilize different tactics. Using the latest research, first-hand accounts, and specially commissioned artwork, Shlomo Aloni tells the dramatic story of the dogfights in the skies over the Middle East.

Arab MiG-19 & MiG-21 Units in Combat David Nicolle,2004-03-25 The MiG-21 provided the backbone of frontline Arab air combat strength for many years and remained the Arabs' only real hope of challenging Israeli air supremacy. This book provides a detailed history of the MiG-21 in Egyptian, Syrian and Iraqi service. It includes numerous photographs, most of which have not been seen outside the Arab world and a large proportion of which have never previously been published anywhere. The material is drawn from official sources and from the private collections and recollections of men who flew, or met, these aircraft in combat.

F-4 Phantom II vs MiG-21 Peter E. Davies,2013-05-20 This book draws us into the dangerous world braved by American and North Vietnamese airmen in the skies over Vietnam. Influential leaders and tacticians are profiled to provide a comparative evaluation of their contrasting skills. This book also reveals the technical specifications of each jet with an analysis of the weaponry, avionics and survival devices of the F-4 Phantom II as flown by the USAF and the MiG-21. The fighters' strengths and weaknesses are also compared, including turn radius, performance at altitude, range and structural integrity. First-person extracts reflect on the dangers of these aerial duels, as USAF pilots and their counterparts struggled to overcome each plane's shortcomings.

Mikoyan Gurevich MiG-21 Fishbed E. Gordon,Yefim Gordon,Peter Davison,2007-02 Covers all MiG-21 upgrades and variants, as well as combat and armament specifications. Over 300 photos are used to illustrate the story of the MiG-21. It features technical diagrams and gives a comprehensive development history, as well as covering design, structural detail, international production, trials, comparisons, and more.

MiG-21 Fishbed Hans-Heiri Stapfer,2004 The MiG-21 resulted from a 1953 Soviet Air Force specification. The MiG-21 began production in 1959 and would continue in production until 1985, making it not only the most produced supersonic jet aircraft ever, but also the longest production run of any combat aircraft. It has been in use with nearly fifty different countries around the world and remains in use by some countries even today. This title includes inside and out coverage of the MiG-21 SM/M (Fishbed J), M/SM (Modified) (Fishbed J), MF (Fishbed J), bis Lazur (Fishbed L), and bis SAU (Fishbed N) variants: with details on the airframes, cockpits, landing gear, engines and weapons. Illustrated with over 123 b/w and 97 color photos, 12 color drawings, 11 b/w drawings.

Mikoyan-Gurevitch MIG 21 Gerard Paloque,2010-02-01 The MiG-21 originated with an official request from the Soviet authorities in 1954 for a light, high-performance (Mach 2 at 20 000 m) frontline fighter to protect military and production installations from potential raids by American bombers. Built for almost half a century in twenty or so different versions, in four successive generations, the “Fishbed” (its NATO codename) was not only the jet which was built in the largest numbers in the whole of aviation history, but also the aircraft which was built in greatest numbers since the end of the Second World War, all types and all countries included. Used by fifty or so air forces on four of the five continents, the MiG-21 took part in most of the major conflicts during the four last decades, from the Six-Day War in 1967 to the Balkans in 1999. At the present time more than a thousand examples of this fighter, of which a large number were built in China (Shenyang F-7 and J-7) are still in service, with their career continuing thanks to modernization programs for the surviving aircraft which have enabled them to pass cheerfully into the 21st Century.

Mikoyan-Gurevich MiG-21 Pilot's Flight Operating Instructions NATO,2008 En instruktionsbog (Flight Manual) for MiG-21 Fishbed.

MiG-21 'Fishbed' E. Gordon,Yefim Gordon,Bill Gunston,1996 These volumes are packed with authoritative text, detailed photographs & drawings.

F-4 Phantom II vs MiG-21 Peter E. Davies,2013-05-20 This book draws us into the dangerous world braved by American and North Vietnamese airmen in the skies over Vietnam. Influential leaders and tacticians are profiled to provide a comparative evaluation of their contrasting skills. This book also reveals the technical specifications of each jet with an analysis of the weaponry, avionics and survival devices of the F-4 Phantom II as flown by the USAF and the MiG-21. The fighters' strengths and weaknesses are also compared, including turn radius, performance at altitude, range and structural integrity. First-person extracts reflect on the dangers of these aerial duels, as USAF pilots and their counterparts struggled to overcome each plane's shortcomings.

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