

Su 24m

The International Institute for Strategic Studies (IISS)

Air War Over Syria - Su-24m Hugh Harkins, 2017-06-05 The primary remit of this volume is to document the bombing operations against Islamic State (Islamic State of Iraq and the Levant) and other opposition groups by the Sukhoi Su-24M strike aircraft detachment of the Russian Aerospace Group in the Syrian Arab Republic from 30 September 2015 through mid-March 2016. While the volume is not intended to be a descriptive monograph for the Su-24 strike aircraft, a basic description of the genesis, development and fielding of the weapon system is provided, as are relevant chapters that focus on the initial combat operations phase of the Russian Aerospace Group, Syrian Democratic Army offensive operations from September 2015 to March 2016, a chronological look at the Russian Aerospace Group operations from late October 2015-March 2016, with specifics of Su-24M operations when available, the combat loss of a Russian Su-24M on 24 November 2015, and its aftermath. It is beyond the scope of this volume to attempt an in-depth analysis of the Syrian conflict, which was in its fifth year before the Russian intervention in 2015. However, a brief outline of the situation on the ground in certain areas is provided where relevant to the Russian campaign as well as a brief outline of the differences in the Russian and western dominated anti-ISIS coalition approach to the attempt to defeat ISIS forces, which, in early 2017, remained entrenched in much of Syria. All technical information concerning the aircraft and weapons systems, along with the majority of the graphic material, has been furnished by the respective Design Bureaus and the Ministry of Defence of the Russian Federation. Within the text there are variations in written orthography of place names such as Latakia, which is also laid-down as

Lattakia, or Raqqa which is also laid-down as Raqqah in some texts. Predominantly references to Islamic State are laid down as ISIS.

The Military Balance 2022 The International Institute for Strategic Studies (IISS), 2022-02-14 Published each year since 1959, The Military Balance is an indispensable reference to the capabilities of armed forces across the globe. It is used by academia, the media, armed forces, the private sector and government. It is an open-source assessment of the military forces and equipment inventories of 171 countries, with accompanying defence economics and procurement data. Alongside detailed country data, The Military Balance assesses important defence issues, by region, as well as key global trends, such as in defence technology and equipment modernisation. This analysis is accompanied by full-colour graphics, including maps and illustrations. With extensive explanatory notes and reference information, The Military Balance is as straightforward to use as it is extensive. The 2022 edition is accompanied by a fullcolour wall chart illustrating security dynamics in the Arctic.

The Military Balance 2023 The International Institute for Strategic Studies (IISS), 2023-02-15 The Military Balance has been published annually since 1959. The 2023 edition provides an open-source assessment of the armed forces and equipment inventories of 173 countries, with accompanying defence economics data. Alongside detailed country data, The Military Balance assesses important military issues, region-by-region, and includes graphics to illustrate these as well as noteworthy equipment developments. Maps this year include a focus on Russia's full-scale invasion of Ukraine and select China-Russia military cooperation activities. The book draws on the range of data

carried in the Military Balance+ online database, particularly the procurement features in each regional section. The accompanying wallchart explores the military use of outer space, an increasingly important element of defence capabilities, focusing on China, Russia and the United States. For those involved in defence and security policymaking, analysis and research, The Military Balance is an indispensable source.

Air Force Magazine ,2015-07

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

War in Ukraine Tom Cooper,Adrien Fontanellaz,Edward Crowther,Milos Sipos,2023-05-18 On 24 February 2022, eight years after invading the Crimean Peninsula of Ukraine and organizing an illegal referendum in support of a subsequent Russian annexation, President of the Russian Federation Vladimir Putin ordered a full-scale invasion

of Ukraine. Both Western and Russian intelligence services expected the invasion to quickly topple the democratically elected government in Kyiv and, with the help of collaborators, to overrun the Ukrainian armed forces in a matter of between 3 and 14 days. Early on 24 February, the Armed Forces of the Russian Federation (VSRF) launched a series of missile and artillery strikes on the main air bases and dozens of other military facilities in Ukraine. Immediately afterwards, the VSRF launched a ground invasion, with its forces advancing on Kyiv, Chernihiv, Kharkiv, Mariupol, Melitopol, and Kherson. Although following a build-up that had begun in April 2021, and expected by many, the onslaught still came as a major surprise for the Ukrainian government, the Ukrainian armed forces, and the majority of its allies in the West, and also for the mass of officers and other ranks of the VSRF, many of whom believed that they were only to participate in exercises. However, the deeper the Russians rolled into Ukraine, the more resistance they encountered: while some Russian units performed as expected, elsewhere whole armies began falling apart when ordered to advance at maximum possible speed without the necessary firepower and logistic support. After suffering catastrophic losses while failing to reach downtown Kyiv, and failing to reach and enter Chernihiv and Kharkiv, the war in northern and north-eastern Ukraine quickly settled down into a bloody stalemate. In the south, the Russians initially advanced at an astonishing rate, securing Melitopol during the second day of their invasion, and Kherson only a few days later. It was only once President Putin attempted to accelerate the rate of advance through ordering heliborne operations deeper into Ukraine that the VSRF suffered a severe blow in the fighting for Voznesensk and Mykolaiv, and its advance in this part of the country also came to an end. Richly illustrated with color photography and full color

artworks, and providing a detailed study of the organization and order of battle of the armed forces involved on both sides, Volume 2 of War in Ukraine provides the first detailed account of the first two weeks of the Russian invasion of Ukraine in 2022.

The Military Balance 2013 The International Institute for Strategic Studies (IISS), 2020-12-14 The Military Balance 2013 is the annual assessment of the military capabilities and defence economics of 171 countries world-wide. New features of the 2013 edition include; reorganised and expanded analytical essays. New sections on trends in contemporary armed conflicts in Afghanistan and Syria, as well as trends in defence capability areas, with a focus on equipment, technological or doctrinal developments. There is also an essay on trends in defence economics and procurement, one on European defence industries, and another on anti-access/area denial, detailed analysis of regional and national defence policy and economic issues for selected states, updated graphics feature on comparative defence statistics, with focus on defence economics, and major land, sea and, air capability concerns, tables, graphics and analysis of defence economics issues, additional national capability summaries, additional data on, land forces: combat support and combat service support, new graphics and maps on defence capability issues and additional data on cyber capabilities.

The Military Balance 2021 The International Institute for Strategic Studies (IISS), 2021-02-25 Published each year since 1959, The Military Balance is an indispensable reference to the capabilities of armed forces across the globe. It will be of interest to anyone interested in security and military issues and is regularly consulted by academia, media, armed forces, the private sector and government. Key Elements: 1. Data on the

military organisations, equipment inventories and defence budgets of 171 countries 2. Analysis of major developments affecting defence policy and procurement, and defence economics, arranged region-by-region. 3. Key trends in the land, sea and air domains, and in cyberspace 4. Selected defence procurement programmes, arranged region-by-region 5. Full-colour graphics including maps and illustrations 6. Extensive explanatory notes and references 7. The hardcopy edition is accompanied by a full-colour wall chart Features in the 2021 edition include: - Analytical texts on future maritime competition, battle management systems, China's civil-military integration and fractures in the arms-control environment - Military cyber capabilities - Analysis of developments in defence policy, military capability and defence economics and industry for China, Egypt, Finland, Indonesia, Russia, Senegal and the United States. - A wallchart illustrating global submarine holdings and key trends in subsurface warfare

The Sukhoi Su-24 Stanislaw Krzysztof Mokwa, 2020-02-19 Su-24 (Fencer) is a Soviet jet bomber with variable-geometry wings. The aircraft was supposed to be a response to the American F-111, and therefore it's structurally similar. Su-24 can operate in any weather conditions, also at night. It was designed to carry tactical nuclear weapons. In the 1960s, the military command of the Soviet Union set requirements for a new attack aircraft that would be able to operate despite strong ant-aircraft defense of NATO troops. An aircraft was expected to fly on a very low altitude at a very high speeds. Initially, it was based on Su-7 and Su-15 airframes, but due to the decision to use variable-geometry wing, it was necessary to build a completely new structure. Variable geometry allowed to achieve high speeds while maintaining good takeoff and landing characteristics. This is how Su-24 was

born. The first prototype was flown on July 2, 1967 (marked as T6-1), and the second on January 17, 1970 (T6-2I). Variable-geometry wings were only used in the second prototype. In December 1971, the first serial Su-24 was built, but due to the prolonged acceptance tests (lasting until 1974), the aircraft officially did not become operational until February 1975. Su-24 was named Fencer in the NATO code.

Arms Diffusion THomas W. Zarzecki,2018-12-20 Weapons proliferation is one of the most pressing global concerns following the end of the Cold War. Despite the absence of an overarching superpower conflict, armaments and related technologies have continued to spread throughout the international system. This has been particularly true in areas like East Asia and the Middle East, where the traditional two party arms races are not readily apparent. This text addresses these concerns and shortcomings using data on fourteen specific military technological innovations that diffused throughout the international system from 1960 to 1997.

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.

The Military Balance 2024 The International Institute for Strategic Studies (IISS), 2024-02-13 The Military Balance has been published since 1959. The 2024 edition provides an open-source assessment of the armed forces and equipment inventories of over 170 countries, with accompanying defence economics data. In addition to detailed country data, The Military Balance assesses, region-by-region, important military issues. It includes graphics to illustrate defence personnel, equipment, and procurement developments. The 65th edition examines emerging lessons from Russia's full-scale invasion of Ukraine, details Chinese military activity around Taiwan, and identifies developments in uninhabited aerial vehicle exports. The accompanying wallchart spotlights the important issues around critical national infrastructure in the Euro-Atlantic. The book draws on the breadth of data in the Military Balance+ online database. The Military Balance and Military Balance+ are indispensable sources of information for those involved in defence and security policymaking, analysis, and research.

Jane's All the World's Aircraft ,2001

Russia, the Asymmetric Threat to the United States John Wood, 2009-06-22 Exploring themes critical to understanding the current world order, this book lays bare the reality of

the new Russia that emerged under Vladimir Putin. Russia holds the world's largest natural gas reserves, the second largest coal and uranium reserves, and the eighth largest oil reserves. Europe is dependent on Russia for 25 percent of its oil and gas. Russia is also positioning itself to play a similar role with respect to China. The key to this strategy is a network of new oil and natural gas pipelines that Russia is in the process of constructing, which will by-pass the problematic Ukraine, Georgia, Poland and the Baltic States in the West, and lock-in the enormous potential of China in the East. Further, as the Western economies including the USA begin themselves to recover, their growing energy dependence will come back into the forefront, and therefore the need to ensure that Russia does not fail in its opening up of new energy resources in the Arctic and Eastern Siberia. Russia is no longer a superpower, in the Cold War sense of the word, because its military is significantly weaker, and as such is incapable of conducting a regional let alone global war against either the United States or NATO. It is precisely because of its military weakness that Putin has been forced to adopt an asymmetric approach. Thus, the pipeline spigot and the proliferation of missiles and aircraft have become Russia's weapons of choice, along with an ever growing reliance on its strategic nuclear forces to provide it with the necessary deterrent to foreign aggression. In addition, Putin and Medvedev have no interest in an arms race with the United States, it is too costly and detracts from their priority, which is economic reform. From Putin's perspective, America is in the process of imposing absolute security or as Joint Vision 2020 put it: full spectrum dominance over the world. As the sole remaining superpower, the United States enjoys a massive strategic imbalance in its favor, which it has used first to contain, but now with the intent to control the world. How? NATO

expansion lays the groundwork for a U.S. global missile defense system to contain perceived adversaries, such as Russia, which in turn secures the dominance of America through its Prompt Global Strike (PGS) capability – the ability to strike anywhere on the planet with impunity within 90 minutes of the order being given by The President. Thus, PGS will be to the 21st Century, what British Gun Boat Diplomacy was to the 19th Century. In such a context, Russia is forced to respond asymmetrically.

The Military Balance 2012 The International Institute for Strategic Studies (IISS),2020-03-26 The Military Balance is the International Institute for Strategic Studies annual assessment of the military capabilities and defense economics of 170 countries worldwide. It is a useful resource for those involved in security policy making, analysis and research.The book is a region-by-region analysis of the major military and economic developments.

Trends in Russia's Armed Forces Keith Crane,Olga Olikier,Brian Nichiporuk,2019-10-10 The authors assess how Russian military forces are postured and resourced and how they are likely to operate. They also discuss the goals and effects of Russian military reform efforts, including initiatives that span all of the Russian armed forces' services and independent branches. Touching on most of Russia's armed forces' major capabilities, the authors conclude with a look at how those capabilities are being integrated in practice.

International Electronic Countermeasures Handbook Horizon House,2004 This updated 2004 Edition of the popular International Electronic Countermeasures Handbook contains new and revised entries for defense electronics systems from all nations, including Russian,

Eastern European, and Chinese electronic-warfare, electronic-intelligence-gathering, and guided-weapon systems. Packed with more system technical data, photographs, and operational details than ever, the new edition is a must-have resource for military and industry professionals who are concerned with defense electronics in the modern world. The book also describes known threats, providing details of missiles which can be launched from static and mobile ground-based sites, from ships, or from aircraft. Moreover, it presents comprehensive information on the status, parameters, deployment, and manufacturer of each system. This invaluable handbook includes every important class of military surveillance and electronic intelligence system for ESM (electronic support measures); SIGINT (signals intelligence); COMINT (communications intelligence); and DF (direction finding) systems.

Soviet Air Power of the Cold War Michael Green, 2023-04-28 At the peak of the Cold War in the 1950s the Soviet Union possessed some 12,000 aircraft, making it the largest air force of all the protagonists. By the 1990s this had declined to around 8,000, the reduction largely reflecting the increase in aircraft capability. As well as fighters and bombers, the Soviet inventory included trainers, transports, seaplanes, electronic warfare and ground attack aircraft, as well as an impressive helicopter fleet, notably the Mi-24 'Hind' gunship and the massive Homer transport. The Tu-4 'Bull' was the first Russian nuclear-capable bomber, a copy of the US B-29, which was followed by their range of jet bombers, the Il-28 'Beagle', Tu-16 'Badger' and M-4 'Bison'. The prop driven Tu-20 'Bear' and its successors including the Tu-22 'Backfire' and finally the Tu-160 'Backfire', were all formidable. The jet-engined MiG-15 fighter entered service in 1948 and proved itself during the Korean War.

The MiG-17, MiG-19 and MiG-21 followed . Ground-attack aircraft included the Su-7 'Fitter' and M-23 'Flogger'. The 1970s saw the MiG-25 'Foxbat' interceptor, followed by the MiG-29 'Fulcrum' and Su-27 'Flanker', coming into service. All these aircraft and many more are authoritatively described and vividly illustrated in this comprehensive work.

The Military Balance 2014 The International Institute for Strategic Studies (IISS),2021-12-24 The Military Balance 2014 contains 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. Detailed entries describe the military capabilities of 171 countries, displaying key equipment inventories and defence economics. Comprehensive tables detail major training activities, UN and non-UN deployments, and international comparisons of defence expenditure and military personnel.

Rockets and Missiles Over Ukraine Mihajlo S Mihajlovi?,2023-12-30 A comprehensive guide to the missiles and rockets used by both Russia and Ukraine along with their effect on both military and civilian targets. In the Russian-Ukrainian war, both sides depended heavily on rockets and missiles. Some of these date from Soviet times and some are very modern, being deployed in warfare for the first time. The outbreak of the civil war in the east of Ukraine in 2014 showed that rockets and missiles, beside the artillery, are among the decisive factors in both regular Ukrainian military, and paramilitary nationalistic formations as well as in the separatists' bodies. For eight years hardly any day passed without these weapons being fired. On 24 February 2022, Russia unleashed a 'limited military operation' (as President Putin defined it) with a barrage of new equipment – cruise missiles and tactical ballistic missiles – pounding Ukrainian targets. The West responded

with a pledge to supply modern weapons to the otherwise outdated Ukrainian military to counter the Russian threat, especially armor. Ukraine was turned into a vast depot for NATO ammunition and weapons including short-range air defense systems and antitank rockets. Western stocks gradually shrank while numerous cargo lanes transported these weapons to Poland to be hauled by trucks and railways to the Ukrainians. In the meantime, Russia pounded these locations and large quantities of the Western aid disappeared in flames and explosions – as yet more equipment poured into Ukrainian hands. The sheer amount is hard to estimate but large quantities were captured by the Russians and occasionally turned against the former owners. This book is a comprehensive guide to all missiles and rockets used by both sides as well as their effect on both military and civilian targets, including Russian ship-borne weapons and anti-ship missiles used so effectively by Ukraine against the Russian cruiser Moskva. Besides the numerous ex-Soviet, Ukrainian, and Russian anti-armor rockets (RPGs) and missiles, of particular interest are the anti-armor missiles and rockets supplied by NATO which includes Javelin and British NLAW, and Brimstone. The war in Ukraine was a full-scale conventional war between the two largest armies in Europe. But without modern weapons, Ukraine's ability to hold out for an extended period was limited. Its only hope was help by the West. Yet NATO supplies were precisely tracked and often destroyed immediately after unloading. Nevertheless, the Russian-Ukrainian war allowed manufactures and military experts to assess the true effectiveness of their weapons in the most realistic setting of all – the battlefield. In his examination of the weaponry used in the conflict, the author toured the Ukraine as the conflict unfolded, to photograph and report on the first major war of the twenty-first

century.

The Top Books of the Year Su 24m The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Su 24m : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Su 24m : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man,

arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and thrilling novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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