

Su-57: Russia's Fifth-Generation Stealth Fighter

The Su-57 is Russia's fifth-generation stealth fighter, designed to replace the MiG-29 and Su-27 fighters. It is a multirole fighter that can perform air-to-air, air-to-ground, and electronic warfare missions. The Su-57 is equipped with advanced avionics, sensors, and weapons, and is considered to be one of the most advanced fighter aircraft in the world.



Su-57: Russia's Fifth Generation 'Stealth' Fighter

by Hugh Harkins

★★★★★ 5 out of 5

Language : English
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Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting: Enabled
Word Wise : Enabled
Print length : 295 pages



Design

The Su-57 is a single-seat, twin-engine fighter with a canard delta wing configuration. The aircraft is made of composite materials, which makes it lightweight and stealthy. The Su-57 has a distinctive "smiling" intake design, which helps to reduce its radar cross-section. The aircraft is also equipped with a variety of sensors, including a radar, infrared search and track system, and electronic warfare suite.

Avionics

The Su-57 is equipped with advanced avionics, including a glass cockpit and a helmet-mounted display. The aircraft's avionics suite is designed to provide the pilot with a high level of situational awareness and control over the aircraft. The Su-57 is also equipped with a variety of sensors, including a radar, infrared search and track system, and electronic warfare suite.

Weapons

The Su-57 is armed with a variety of weapons, including air-to-air missiles, air-to-ground missiles, and bombs. The aircraft's internal weapons bay can accommodate up to six air-to-air missiles or two air-to-ground missiles. The Su-57 can also carry additional weapons on its external hardpoints.

Performance

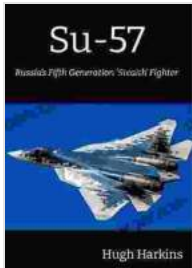
The Su-57 is a highly maneuverable aircraft, with a maximum speed of Mach 2.0. The aircraft has a combat radius of 1,500 kilometers and can fly at altitudes of up to 20,000 meters. The Su-57 is also equipped with a variety of sensors, including a radar, infrared search and track system, and electronic warfare suite.

Deployment

The Su-57 is currently in service with the Russian Air Force. The aircraft is expected to enter full production in 2023. The Su-57 is also being marketed to export customers, and has been Free Downloaded by India and China.

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