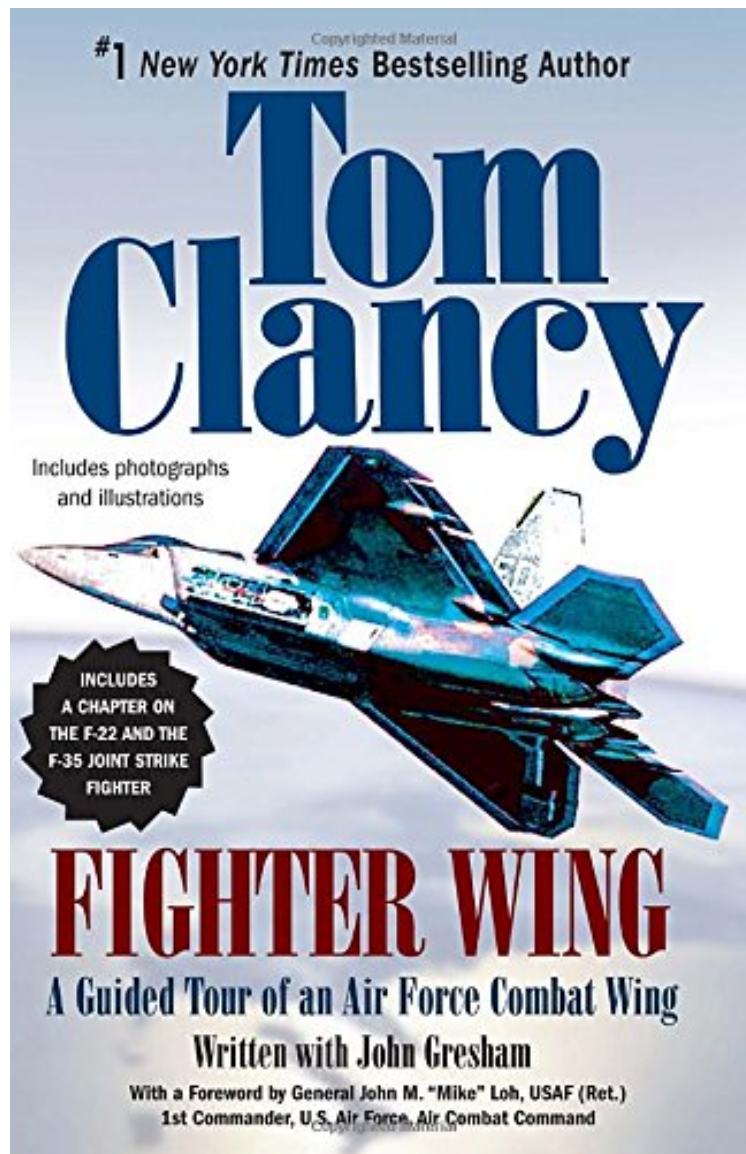


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Fighter Wing: A Guided Tour of an Air Force Combat Wing (Tom Clancy's Military Reference)

Tom Clancy, John Gresham
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The #1 New York Times bestselling master of the military genre puts readers right in the cockpit. Tom Clancy's explorations of America's armed forces reveal exclusive, never-before-seen information on the people and technology that protect our nation. Here, the acclaimed author takes to the skies with the U.S. Air Force's elite: the Fighter Wing. With his compelling style and unerring eye for detail, Clancy captures the thrill of takeoff, the drama of the dogfight, and the relentless dangers our fighter pilots face every day of their lives- showing readers what it really means to be the best of the best. This is the ultimate insider's look at an Air Force combat wing--the planes, the technology, and the people...with Tom Clancy behind the stick.

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people can occupy and hold ground. Tanks can roll across ground. Artillery can punish and neutralize ground. And airpower -- which is at heart longer-range artillery -- can punish and neutralize over long distances. But only people can take up residency there. Yet airpower can have a powerful effect, and this fact was not lost on the German General Staff. In May 1940, when another German attack violated French soil at a place called Sedan, French soldiers excused their rapid departure from the battlefield by saying, "But mon lieutenant, bombs were falling." The second global conflict announced the importance of airpower in terms that no one could ignore. Now, huge fleets of aircraft attacked everything they could reach -- and that reach was ever growing, for aviation science advanced rapidly. Engineering talent tends to follow the excitement of discovery and possibility. Engineers who had once devoted their skills to developing steam engines for ships or railroad locomotives found more exciting work. The great breakthroughs in engine power came first, and those drove improvements in airframe design. By the beginning of the Second World War, Daimler-Benz and Rolls-Royce had both developed water-cooled in-line engines exceeding a thousand horsepower. In America, Allison did the same, and Pratt Whitney began production of their monster, two-thousand-horsepower R-2800 radial engine in East Hartford, Connecticut. More efficiently cooled, simpler, and capable of absorbing catastrophic battle damage, the Double-Wasp and its close relatives would power a variety of successful tactical aircraft (F-6F Hellcat, F-4U Corsair, TBF/TBM Avenger, P-47 Thunderbolt, etc.), plus numerous types of bombers and transport aircraft. The Republic P-47 Thunderbolt, called "the Jug" by its pilots for its brutal and decidedly ungraceful lines, was originally designed by Alexander Cartvelli as a high-altitude interceptor, and it would distinguish itself as an escort fighter for the bomber fleets of the 8th Air Force over Germany. But the Thunderbolt carried a total of eight heavy .50-caliber machine guns, and could also carry bombs and rockets. Its rugged construction and immense armament rapidly led pilots to experiment with other forms of hunting. Soon Jug drivers were flying low on missions they sometimes called Rodeos, for their wild and woolly character: If it moved, it was fair game. Such missions inspired the German Army to coin a new word, *Jabo*-short for *Jagdbomber*, literally "hunting bomber," spoken with alarm and respect. But the P-47 was more than that. Other countries had aircraft with similar missions. The Russian Il-2 was a dedicated low-level attack bird with an evil reputation among those whom it hunted, but it required a fighter escort. The Thunderbolt was something else. It could hold its own in a swarm of enemy and friendly fighters -- now called a "furball" -- and go low to make life miserable for the people on the ground. And that -- though hardly recognized at the time -- was a revolution of sorts. Using a single aircraft for more than one mission was so logical that the Jug's ability to do more than one mission well seems to have been overlooked. Alexander Cartvelli accidentally invented the multi-role aircraft. Today, the name of the game is multi-role aircraft. So just what can airpower do? It can make life thoroughly miserable for an enemy -- especially if you can hit exactly what you want to hit. Toward this goal, America continues to lead the world. "If you can see it, you can hit it," goes the saying. Following this usually comes, "If you can hit it, you can kill it." That way of thinking shaped American air doctrine. Dive bombing and close air support were first systematized by the United States Marine Corps in Nicaragua during their early interventions there. In the late 1930s, the Army Air Corps (later the Army Air Force) adopted the ultra-secret Norden bombsight to bring systematic accuracy to high-altitude bombing. In World War Two, the AAF experimented successfully with the "Razon" and "Mazon" TV-guided bombs. And the Germans conducted similar experiments, sinking an Italian battleship with their radio command guided Fritz-X bombs. Such weapons have been improved over the years. Most of us can remember watching "the luckiest guy in Iraq" on CNN. During the Gulf War, his car was perhaps two hundred yards from the impact point of a two-thousand-pound guided bomb on an Iraqi bridge. Bridges are always worth destroying. So are factories, aircraft on the ground, radio and TV towers, and microwave relays. So too, especially, are the places which generate signals and commands . . . because commanders are there, and killing commanders is ever the quickest way of disrupting an army. Or a whole nation. Using precision-guided munitions can be likened to sniping with bombs. All warfare is cruel and ugly, but such munitions are less cruel and ugly than the alternatives. With the recent advent of precision-guided munitions to attack the command centers of the enemy nation with great selectivity and deadly accuracy, the promise of airpower is finally being realized. But this fulfillment is not always what people wish it to be. You want a "surgical strike," find yourself a good surgeon. Surgical strikes do not happen in war. Yet the phrase continues to be approvingly employed in speeches by those (usually by elected or appointed politicians) who don't know what the hell they are talking about. To state things simply, surgeons use small and very sharp knives, held with delicacy by highly trained hands, to invade and repair a diseased body. Tactical and strategic aircraft drop metal objects filled with high explosives to destroy targets. The technology is much improved over what it once was, but it will never be surgically precise. Yes, the qualitative improvement over the past fifty years is astounding, but no, it isn't magical. All the same, you would be wise not to make yourself the object of the deadly attention of American warplanes. The newest revolution-also American in origin-is stealth. When researching *Red Storm Rising*, I traveled to what was then the headquarters of the Tactical Air Command at Langley Air Force Base in the Virginia Tidewater. There, a serious and laconic lieutenant colonel from Texas looked me straight in the eye and announced, "Son, you may safely assume that an invisible aircraft is tactically useful." "Well, gee, sir," I replied, "I kinda figured that out for myself." Seemingly a violation of the laws of physics, stealth is really a mere perversion of them. The technology began with a theoretical paper written around 1962 by a

Russian radar engineer on the diffraction properties of microwave radiation. About ten years later an engineer at Lockheed read the paper and thought, "We can make an invisible airplane." Less than ten years after that, such an airplane was flying over a highly instrumented test range and driving radar technicians to despair. Meanwhile men in blue suits slowly discarded their disbelief, saw the future, and pronounced it good. Very good. Several years later over Baghdad on the night of January 17th, 1991, F-117A Black Jets of the 37th Tactical Fighter Wing proved beyond question that stealth really works. The stealth revolution is simple to express: An aircraft can now go literally anywhere (depending only on its fuel capacity) and deliver bombs with a very high probability of killing the target (about 85 to 90% for a single weapon, about 98% for two), and in the process it will give no more warning than the flash and noise of the detonation. Meaning: The national command authorities (an American euphemism for the president, premier, or dictator) of any country are now vulnerable to direct attack. And for those who believe that the USAF was not trying to kill Saddam Hussein, be advised that maybe his death was not the objective. Maybe we were just trying to turn off the radio (i.e. command-and-control system) he was holding. A narrow legal point, but even the Pentagon has lawyers. However one might wish to put it, we were trying, and Hussein was a lucky man indeed to avoid the skillful attempts to flip off that particular switch. Whoever next offends the United States of America might wish to consider that. Because we'll try harder next time, and all you have to know is where that offending radio transmitter is. As in Submarine and Armored Cav, I'll be taking you on a guided tour of one of America's premier fighting units and its equipment. In this case, the unit is the 366th Wing based out of Mountain Home AFB, Idaho. As organized today, the 366th is the Air Force's equivalent of the Army's 82nd Airborne or 101st Air Assault Division -- a rapid-deployment force that can be sent to any trouble spot in the world on a moment's notice. The 366th's job is to delay an aggressor until the main force of USAF assets arrive in-theater, ready to go on the offensive. But before we visit these daring men and women in their amazing flying machines, let's take a look at the technologies that enable an aircraft to move, see, and fight.-- from Fighter Wing by Tom Clancy Copyright © 1995 by Jack Ryan Limited Partnership