**Lockheed Martin** 

**f-22 raptor** Bill Sweetman, While much of the details of the F-22 remain classified, what has been released is nothing short of incredible. Bill Sweetman fills you in on the new techniques, new materials and new machinery required to build and fly the world's most-advanced fighter. --provided by Goodreads.

Advanced Tactical Fighter to F-22 Raptor David C. Aronstein, 1998

F22 aircraft progress in achieving engineering and manufacturing development goals : report to congressional committees ,

F-22 Aircraft United States. General Accounting Office, 1999

Tactical aircraft F22 development and testing delays indicate need for limit on lowrate production: report to congressional committee,

Alternatives for Modernizing U.S. Fighter Forces David Alan Arthur, 2009

<u>Air Force/F-22 Raptor Flip Book</u> Derek Zobel,2010-01-01 Flying the latest military aircraft and patrolling the air are just part of the job of the United States Air Force. Readers will learn about the technology behind the aircraft and the men and woman who operate them. The F-22 Raptor might be the most advanced fighter plane in the world. Using stealth technology, it can carry out ground attack missions, electronic warfare missions, and dominate the skies. Students will discover the weapons and technology that allow the F-22 Raptor to complete these missions with ease.

<u>F-22 Raptor</u> Steve Pace,1999-01-01 Provides history on America's next generation of fighter plane, known as the F-22 Raptor.

<u>Lockheed Martin F/A-22 Raptor</u> Jay Miller,2005 Initially referred to as the Advanced Tactical Fighter (ATF), the F-22 was designed to meet a USAF requirement for 750 new fighters to replace the

F-15 Eagle. Work began in the early 1980s, and competition selection resulted in orders for flying demonstration prototypes of the YF-22 and the Northrop YF-23. The first of two prototypes was flown on 29th September 1990, and extensive testing and evaluation took place during that decade. In 1993 an air-to-ground attack role using precision-guided munitions was added to the original air superiority role, and the designation has been changed to F/A-22 to reflect this. The F-22 is designed to supercruise at up to Mach 1.5 without use of the afterburner, and its unusual layout is designed for agility as well as to incorporate stealth characteristics. A planned two-seat trainer version, the F-22B was cancelled, but production deliveries are now taking place, with service introduction planned for 2005. Author Jay Miller has followed the program closely to produce an extensively researched and well-illustrated review of this topical new fighter in the well-established and acclaimed Aerofax style and depth.

Advanced Tactical Fighter to F-22 Raptor, 1998

<u>F-22A Multiyear Procurement Program</u> Obaid Younossi,2007 Buying defense weapon systems under multiyear contracts rather than a series of single-year contracts can save costs because contractors can buy materials in more economic quantities, schedule workers and facilities more efficiently, and reduce the burden of preparing multiple proposals. The U.S. Air Force is in the process of awarding multiyear contracts for 60 F-22A aircraft over three years. Congress wants to assure itself that the proposed contract will yield the promised savings and asked RAND for an independent review of the estimated savings. Researchers found that a multiyear procurement of three lots of F-22A fighters would save an estimated \$411 million-about 4.5 percent of the total contract value. They were able to trace 70 percent of the \$411 million to substantiated savings estimates identified by the contractors. Examining the issue of multiyear savings using several approaches produces a consistent

range of results, indicating that the savings attributed to the multiyear contract by the contractors appear to be reasonable.

Air Force F-22 Fighter Program Jeremiah Gertler,2009

Innovation with Purpose Lockheed Martin, 2013

F-22 Raptor Lou Drendel, 2011

<u>Ending F-22A Production</u> Obaid Younossi,2010 In April 2009, the Department of Defense decided to terminate production of the F-22A Raptor. In advance of the decision, the Air Force asked RAND Project AIR FORCE to identify the costs and the industrial base implications of various shutdown options. This monograph evaluates the implications of three shutdown options for the F-22A industrial capability: shutdown; shutdown and restart; and warm production, in which a small number of aircraft are produced until a decision is made to return to full-rate production.

Ending F-22A Production: Costs and Industrial Base Implications of Alternative Options ,2010 The U.S. Air Force's F-22A Raptor is the world's most advanced fighter aircraft. Currently, Congress has authorized the procurement of 187 F-22As. The final production funding for the program of record is in fiscal year (FY) 2009, with the last delivery about two years later. After this, the Air Force will continue with contracts that provide for some modernization and sustainment work but no new production. Since Congress has prohibited the sale of the F-22A to other countries, there are no options to keep the production line active. RAND Project AIR FORCE was asked to evaluate various scenarios for the time that fullrate production is no longer an option.

**Tactical Aircraft** Allen Li,2003 The Air Force is developing the F/A-22 aircraft to replace its fleet of F-15 air superiority aircraft. The F/A-22 is designed to be superior to the F-15 by being capable of flying at higher speeds for longer distances, less detectable, and able to provide the pilot with

substantially improved awareness of the surrounding situation. The National Defense Authorization Act for Fiscal Year 1998 requires us to annually assess the F/A-22 development program and determine whether the program is meeting key performance, schedule, and cost goals. We have issued six of these annual reports to Congress. We have also reported on F/A-22 production program costs over the last 3 years. Most recently, we reported on F/A-22 production and development in February and March 2003 respectively. This testimony summarizes our work on the F/A-22 program, covering performance, cost, and scheduling issues. In the past several years, we have reported on a range of problems affecting the development of F/A-22. Specifically, F/A-22 estimated performance in the areas of supercruise, acceleration, maneuverability, radar observability, combat radius, and range in searching targets have so far been met or exceeded. However, problems have surfaced related to overheating during high-speed flight-testing, reliability, avionics that perform radar, communication, navigation, identification and electronic warfare functions as well as excess movement of the vertical tails. Modifications are being made to some test aircraft to address some of these problems. For now, however, testing in some areas is restricted. Each year since 1998, we have reported that assembly of the test aircraft was requiring more time than planned and that this was causing the test aircraft to be delivered late to the test center for flight-testing. We have also reported annually since 2000 that flight-test program efficiency--the amount of flight-testing accomplished--has been less than planned. Cost increases have plagued the F/A-22 program since development began in 1991. Since 1997, the Air Force's estimated cost to develop the F/A-22 has increased by \$3.2 billion bringing the total estimate to \$21.9 billion. In addition, over the last 6 years, DOD has identified about \$18 billion in estimated production cost growth bringing the total estimate to \$42.2 billion--which exceeds the congressionally mandated production cost limit of \$36.8 billion. Further, modernization costs have

increased dramatically in recent years. Actions to offset estimated cost growth have had mixed success. These problems have dramatically affected the F/A-22 program. Cost increases, in part, have forced the Air Force to substantially decrease the number of aircraft to be purchased--from 648 to 276. Delays in testing also have significant consequences. Continuing to acquire aircraft before adequate testing is a high-risk strategy that could serve to further increase production costs. Moreover, F/A-22 problems have limited DOD's ability to upgrade its aging tactical aircraft fleet. If the F/A-22 program had met its original goals, the Air Force could have been replacing older aircraft with F/A-22 aircraft over 7 years ago. Now, however, it will not begin replacing aircraft until late 2005 at the earliest. The rate of replenishment will be substantially lower, due to the decrease in the number of new aircraft to be purchased. As a result, DOD will have to continue to use tactical aircraft that contribute to increased operating and support costs and it will have to wait longer than anticipated to have access to the advanced capabilities to be offered by the F/A-22.

**TACTICAL AIRCRAFT: F-22 Development and Testing Delays Indicate Need for Limit on Low-Rate Production**, 2001 As you know, the Air Force is developing the F-22 aircraft which is designed with advanced features to allow it to be less detectable to adversaries, capable of high speeds for long ranges, and able to provide the pilot with substantially improved awareness of the surrounding situation through the use of integrated aviation electronics (avionics). These features are expected to permit the F-22 to penetrate adversary airspace, operate with limited interference, and destroy targets in the air as well as on the ground. In view of past increases in cost estimates to complete development, the National Defense Authorization Act for Fiscal Year 1998 limited the cost of F-22 development to \$20.443 billion, as adjusted under the act's provisions. The act requires us to annually assess whether the Air Force s engineering and manufacturing development program for the

F-22 aircraft is meeting key goals. The act also requires us to assess whether we had access to sufficient information to make informed judgments on matters covered by our report.

Tactical Aircraft United States. General Accounting Office,1995

**F-35 Joint Strike Fighter (JSF) Program** Ronald O'Rourke,2010-05 Contents: (1) Intro.: Alternate Engine Program; (2) Background: The F-35 In Brief; Three Versions; Alternate Engine Program; Program Origin and Milestones; Procurement Quantities; Program Mgmt.; Internat. Participation; Cost and Funding; Mfg. Locations; Proposed FY 2010 Budget; Proposed Termination of Alternate Engine; (3) Issues for Congress: Alternate Engine Program; Summary of Arguments; Admin. Perspective; Studies on F-35 Alternate Engine; Recent Developments; Development Status and Readiness for Production; Admin. Perspective; Affordability and Projected Fighter Shortfalls; Implications for Industrial Base; (4) Legislative Activity for FY 2010; Summary of Quantities and Funding; FY 2010 Defense Author. Bill. Illus.

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