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John K. "Jack" Northrop and the company he founded in 1939, Northrop Aircraft, Inc., will be forever linked with the giant futuristic Flying Wings of the 1940s. But those iconic designs were not the only ideas to spring from the mind of this pioneering visionary and the innovative engineers who followed him. Many piston-powered and turbojet concepts, both conventional and radical in shape and purpose, were proposed and developed over the company's proud fifty-five year history. This book unveils Northrop's once-secret radical designs, many for the first time, with never-before-published drawings, models, and photos of such novel concepts as a ship-based vertical take-off and landing fighter, a supersonic intercontinental cruise missile, a rocket-boosted jet spaceplane trainer, and a radical combination truck/aircraft/boat cargo vehicle. Much of this material has only recently been declassified. Here for the first time is the untold story of Northrop's rare, unique, and formerly super-secret aircraft and spacecraft of the future. Featuring stunning original factory artwork, technical drawings, and never-before-seen photographs, this book shows an amazing array of radical high-performance aircraft concepts from Jack Northrop and his team of brilliant and innovative engineers. The North American Aircraft manufactures from their very beginning to their take-over by Rockwell and their eventual take over. The book gives details on the many aircraft produced. Performance - Dimensions - Weights - power plants - construction - first

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flights - totals and where many of them served. Around 250 pages of information which contains - 312 pictures - 96 plans

This work covers major weapons throughout human history, beginning with clubs and maces; through crossbows, swords, and gunpowder; up to the hypersonic railgun, lasers, and robotic weapons under development today. *Weapons and Warfare* is designed to provide students with a comprehensive and highly informative overview of weapons and their impact on the course of human history. In addition to providing basic factual information, this encyclopedia will delve into the greater historical context and significance of each weapon. The chronological organization by time period will enable readers to fully understand the evolution of weapons throughout history. The work begins with a foreword by a top scholar and a detailed introductory essay by the editor that provides an illuminating historical overview of weapons. It then offers entries on more than 650 individual weapons systems. Each entry has sources for further reading. The weapons are presented alphabetically within six time periods, ranging from the prehistoric and ancient periods to the contemporary period. Each period has its own introduction that treats the major trends occurring in that era. In addition, 50 sidebars offer fascinating facts on various weapons. Numerous illustrations throughout the text are also included. Includes an informative foreword on the impact of weapons on tactics by distinguished historian British Army Major General Mungo Melvin (Retired) Offers individual introductory essays to each of the six chronological sections of the book

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Provides concise studies, written distinguished military historians, of more than 650 important weapons systems Features 50 sidebars that supply interesting insights related to the employment of various weapons

First published in 1987, *The Compendium of Armaments and Military Hardware* provides, within a single volume, the salient technical and operational details of the most important weapons. The complete range of hardware used in land, sea and air forces throughout the world at the time of publication is covered, from tanks to rocket systems, helicopters to cruise missiles, alongside full details of size, weight and operational range. The book's main strength lies in the detail it gives of armament and associated ammunition capabilities, and of the sensors and other electronics required for the weapons to be used effectively. A key title amongst Routledge reference reissues, Christopher Chant's important work will be of great value to students and professionals requiring a comprehensive and accessible reference guide, as well as to weapons 'buffs'.

The Boeing Vertol CH-46 Sea Knight is a medium-lift tandem rotor transport helicopter. It is used by the United States Marine Corps (USMC) to provide all-weather, day-or-night assault transport of combat troops, supplies and equipment. Additional tasks include combat support, search and rescue (SAR), support for forward refueling and rearming points, CASEVAC and Tactical Recovery of Aircraft and Personnel (TRAP). Canada also operated the Sea Knight, designated as CH-113, and operated them in the SAR role until 2004. Other export customers include Japan, Sweden, and Saudi Arabia. The commercial version is the BV 107-II, commonly referred to simply as the "Vertol." The Boeing CH-47 Chinook is an American twin-engine, tandem rotor heavy-lift helicopter. With a top speed of 170 knots (196 mph, 315 km/h) it is

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faster than contemporary utility and attack helicopters of the 1960s. The Sikorsky CH-53E Super Stallion is the largest and heaviest helicopter in the United States military. As the Sikorsky S-80 it was developed from the CH-53 Sea Stallion, mainly by adding a third engine, a seventh blade to the main rotor and canting the tail rotor 20 degrees. It was built by Sikorsky Aircraft for the United States Marine Corps. The less common MH-53E Sea Dragon fills the United States Navy's need for long range mine sweeping or Airborne Mine Countermeasures (AMCM) missions, and perform heavy-lift duties for the Navy. Under development is the CH-53K, which will be equipped with new engines, new composite rotor blades, and a wider cabin. The Bell Boeing V-22 Osprey is an American multi-mission, military, tiltrotor aircraft with both a vertical takeoff and landing (VTOL), and short takeoff and landing (STOL) capability. It is designed to combine the functionality of a conventional helicopter with the long-range, high-speed cruise performance of a turboprop aircraft. The V-22 originated from the United States Department of Defense Joint-service Vertical take-off/landing Experimenta

This landmark joint publication between the National Air and Space Museum and the American Institute of Aeronautics and Astronautics chronicles the evolution of the small gas turbine engine through its comprehensive study of a major aerospace industry. Drawing on in-depth interviews with pioneers, current project engineers, and company managers, engineering papers published by the manufacturers, and the tremendous document and artifact collections at the National Air and Space Museum, the book captures and memorializes small engine development from its earliest stage. Leyes and Fleming leap back nearly 50 years for a first look at small gas turbine engine development and the seven major corporations that dared to produce, market, and distribute the products that contributed to major improvements and uses

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of a wide spectrum of aircraft. In non-technical language, the book illustrates the broad-reaching influence of small turbines from commercial and executive aircraft to helicopters and missiles deployed in recent military engagements. Detailed corporate histories and photographs paint a clear historical picture of turbine development up to the present. See for yourself why *The History of North American Small Gas Turbine Aircraft Engines* is the most definitive reference book in its field. The publication of *The History of North American Small Gas Turbine Aircraft Engines* represents an important milestone for the National Air and Space Museum (NASM) and the American Institute of Aeronautics and Astronautics (AIAA). For the first time, there is an authoritative study of small gas turbine engines, arguably one of the most significant spheres of aeronautical technology in the second half of

This in-depth study of U.S. involvement in the modern Middle East carefully weighs the interplay of domestic, cultural, religious, diplomatic, international, and military events in one of the world's most troubled regions.

- Hundreds of alphabetically organized entries on wars, political events, religious and cultural issues, and diplomatic initiatives, as well as in-depth essays on background material, area and regional analyses, and biographical entries
- An introduction by General Anthony Zinni, USMC (Ret), former commander in chief of U.S. Central Command
- A chronologically arranged final volume comprised of primary and contemporary documents with individual introductions
- A detailed chronology of events
- Cross-references and books for further reading appended to each entry
- A bibliography of over 450 books that are the latest in the field

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The aviation history of Northrop aircraft. From their very beginnings up to their later years. Their products over numerous years. Types with their performance, construction, weights, dimensions, first flights, power plants, plans in in some cases their demise, plus many other hard to find details. Around 495 aircraft details - 202 pictures and 73 plan diagrams.

Maintenance Weapons and Warfare: From Ancient and Medieval Times to the 21st Century [2 volumes]ABC-CLIO

Checklist guide to were surviving military aircraft in Texas are located.

The NACA and aircraft propulsion, 1915-1958 -- NASA gets to work, 1958-1975 -- The shift toward commercial aviation, 1966-1975 -- The quest for propulsive efficiency, 1976-1989 -- Propulsion control enters the computer era, 1976-1998 -- Transiting to a new century, 1990-2008 -- Toward the future

They're all here--every X-bomber and X-fighter since 1942. On October 2, 1942, the Bell XP-59 Airacomet soared up and away from present-day Edwards AFB, launching the US Army Air Forces into the Jet Age. In the several decades since, hundreds of new variations of experimental and test turbojet-powered bombers and fighters--X-bombers and X-fighters--have taken explosive flight. These aircraft blazed a trail leading to today's B-2 Stealth Bomber and F-35 Joint Strike Fighter. The Big Book of X-Bombers & X-Fighters showcases all of the USAF jet-

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powered X-bombers and X-fighters that have flown since 1942--more than 90 in all, including the alphabet soup of their variants. From experimental to prototype service bombers and fighters--from the XB-43 to the B-2A and the XP-59A to the F-35A--they're all here, with their inside stories revealed. Some of these aircraft were further developed. Others were canceled. All stretched the performance and design envelopes. More than 250 photos illustrate all of these experimental aircrafts' cutting-edge features and zeroes in on histories of their design, flight testing, and weapons testing. Specification tables detailing performance, design, and armaments help round out this compendium of information on truly groundbreaking aviation designs. X-bombers and X-fighters in *The Big Book of X-Bombers & X-Fighters* include: Bell P-59 Airacomet Republic P/F-84 Thunderjet Douglas B-43 Jetmaster North American B-45 Tornado Boeing B-47 Stratojet Curtiss P/F-87 Blackhawk McDonnell P/F-85 Goblin Convair P/F-92 "Dart" Northrop F-17 Cobra Boeing B-1 Lancer And all the rest! Specifications included for each aircraft include: Length Height Wingspan Empty weight Gross weight Maximum range Ceiling Maximum speed Armament In addition, veteran aviation author Steve Pace shows readers some of the designs that could have been and offers a peek into what might be lurking in the future, making this the definitive guide to USAF jet-powered experimental aircraft!

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