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Providing fascinating technical insight into the development and use of rocket planes, this manual focuses on the iconic X-15, which carried out much of the development work for the Apollo and Space Shuttle space programmes. As of July 2015, the X-15 still held the world record for the highest speed ever attained by a manned aircraft. Flown by a band of elite test pilots, including the first man to walk on the Moon, Neil Armstrong, it made 199 flights between 1959 and 1968, several of which were above the line considered to be the arbitrary altitude where space begins. This engaging text, extensively illustrated with period photographs and technical drawings, explains how the vehicle worked, what it pioneered for future applications, in both conventional aircraft and manned spacecraft, and what it was like to fly.

"The X-15, which flew from 1959-1970, is still the most advanced research aircraft ever developed and flown, and hangs in a place of honor in the Smithsonian's Air and Space Museum. Its test pilots not only reached the edge of space, but their skill and daring helped engineers understand hypersonic speed and thus pave the way for the Space Shuttle"--

The revolutionary X-15 remains the fastest manned aircraft ever to fly. Built in the two decades following World War II, it was the most successful of the high-speed X-planes. The only recently broken 'sound barrier' was smashed completely by the X-15, which could hit Mach 6.7 and soar to altitudes above 350,000ft, beyond the edge of space. Several pilots qualified as astronauts by flying above 50 miles altitude in the X-15, including Neil Armstrong, the first man on the Moon. The three X-15s made 199 flights, testing new technologies and techniques which greatly eased America's entry into manned space travel, and made the Apollo missions and Space Shuttle viable propositions. With historical photographs and stunning digital artwork, this is the story of arguably the greatest of the X-Planes.

With the Soviet Union's launch of the first Sputnik satellite in 1957, the Cold War soared to new heights as Americans feared losing the race into space. The X-15 Rocket Plane tells the enthralling yet little-known story of the hypersonic X-15, the winged rocket ship that met this challenge and opened the way into human-controlled spaceflight. Drawing on interviews with those who were there, Michelle Evans captures the drama and excitement of, yes, rocket science: how to handle the heat generated at speeds up to Mach 7, how to make a rocket propulsion system that could throttle, and how to safely reenter the atmosphere from space and make a precision landing. This book puts a human face on the feats of science and engineering that went into the X-15 program, many of them critical to the development of the Space Shuttle. And, finally, it introduces us to the largely unsung pilots of the X-15. By the time of the Apollo 11 moon landing, thirty-one American astronauts had flown into space--eight of them astronaut-pilots of the X-15. The X-15 Rocket Plane restores these pioneers, and the others who made it happen, to their rightful place in the history of spaceflight. Browse more spaceflight books at upinspace.org. Purchase the audio edition.

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This is the most extensively researched history of the X-15 program yet produced, written with the cooperation of surviving X-15 pilots as well as many other program principals.

The North American X-15 was the last in a line of manned rocket-powered research airplanes built during the 1950s to explore ever-faster and higher flight regimes. This was an era before computers were commonplace, and the only way to investigate the unknown was to go there. The program was launched in 1954 specifically to produce the first hypersonic (velocities greater than five times the speed of sound) manned aircraft. Forward-thinking researchers also decided to design the airplane to fly to the edge of space, long before the manned space program had begun in earnest.An in-depth history of the X-15 program may be found in Hypersonic: The Story of the North American X-15 by Dennis R. Jenkins and Tony R. Landis. This book is a collection of illustrations that were assembled for Hypersonic but would not fit into the finished work. Since many of these are significant and most have never before been published, it was decided to print this scrapbook as a companion volume to Hypersonic. With over 350 b/w and 50 color photos, this scrapbook provides an excellent visual look at a very exciting research program. Dimensions (width x height): 9 x 9 inches # of pages 108 # of color photographs: 400 b/w & color photos

Designed between 1969 and 1972 and first flown into space in 1981, the NASA Shuttle will have flown almost 140 missions by the time it is retired in 2011. David Baker describes the origin of the reusable launch vehicle concept during the 1960s, its evolution into a viable flying machine in the early 1970s, and its subsequent design, engineering, construction, and operation. The Shuttle’s internal layout and systems are explained, including the operation of life support, electrical-power production, cooling, propulsion, flight control, communications, landing, and avionics systems.

Spaceplanes From Airport to Spaceport presents a coherent, lucid, and optimistic picture of the future of the near future. Space vehicles may soon take off from international airports and refuel in space. New technologies could allow flights to take off regularly between the Earth and the Moon. The technical details presented explain precisely how all this can be accomplished within the next few decades. This book also explains why the Space Tourist market could easily become the single most important factor in the mid-term future development of space transportation. In a few years it will be possible to board a spaceplane and fly into Earth orbit, and perhaps visit a space station. Later development could include refuelling in orbit to take a tour of cislunar space. The book's solid engineering foundation will be of interest to both space exploration enthusiasts and future space travelers.

Resulting from the authors’ deep research into these two pre-Shuttle astronaut groups, many intriguing and untold stories behind the selection process are revealed in the book. The often extraordinary backgrounds and personal ambitions of these skilled pilots, chosen to continue NASA’s exploration and knowledge of the space frontier, are also examined. In April 1966 NASA selected 19 pilot astronauts whose training was specifically targeted to the Apollo lunar landing missions and the Earth-orbiting Skylab space station. Three years later, following the sudden cancellation of the USAF’s highly classified Manned Orbiting Laboratory (MOL) project, seven military astronauts were also co-opted into NASA’s space program. This book represents the final chapter by the authors in the story of American astronaut selections prior to the era of the Space Shuttle. Through personal interviews and original NASA documentation, readers will also gain a true insight into a remarkable age of space travel as it unfolded in the late 1960s, and the men who flew those historic missions.