

# Nasa Spacecraft Space Shuttle

Piers Bizony

*NASA Space Shuttle* Piers Bizony, 2021-05-25 Rare photography and stunning artworks illustrate the history of NASA's Space Shuttle program from 1981 to 2011, providing an unprecedented look at the missions, equipment, and astronauts.

**DEVM SPACE SHUTTLE** Heppenheimer Ta, 2002-05-17

**The Space Shuttle** Piers Bizony, 2015-04-01 Get a full retrospective of all 134 flights, every mission, of the space shuttle program. This superbly designed and lavishly illustrated reissue of the best-selling hardcover book marks a special moment in history: the final mission of the space shuttle. Noted space and science author Piers Bizony's retrospective covers the entire space shuttle program that began in 1981 and ended in 2011. Every space shuttle mission is detailed, including all flights of the Columbia, Challenger, Discovery, Atlantis, and Endeavour spacecraft. The book also covers the development and design of the orbiter, as well as the technical specifications of the vehicle and details of its major assemblies and subassemblies. A full double-gatefold provides a large-scale technical drawing of the space shuttle. If you never got to watch the countdown clock in person during a space shuttle launch, *The Space Shuttle* is your chance to relive the history of America's first low Earth orbital spacecraft.

**The Space Shuttle Program** R. Michael Gordon, 2008-08-12 This critical study of NASA's space shuttle program provides an in-depth examination of the events, decisions, and policies that may have contributed to the horrific destruction of the shuttles Challenger and Columbia. It first traces the early development of NASA's shuttle program, specifically examining the problems associated with the designs of shuttles OV-099 (which was to become Challenger) and OV-102 (which was to become Columbia). The reader is then taken through a detailed look at the first successful flights made by Challenger and Columbia and the cancellation of top-secret Shuttle flight 51-C (which would have launched under nearly identical weather conditions as the ill-fated Challenger). An in-depth assessment of the shuttles' disastrous final launches follows, including detailed accounts of the post-flight search and rescue operations, the official investigations into each accident, and the impact of each disaster on the future of NASA's manned space program.

**The World's First Spaceship Shuttle** Robert M. Powers, 2017-09-15 Join the crew of space shuttle Enterprise as they prepare to take the first step into the twenty-first century. Step aboard the world's first reusable space vehicle with science writer Robert M. Powers for a cockpit view of a launch, orbit, re-entry, and return to earth. Preview the scheduled NASA shuttle missions in hundreds of line drawings and photographs of the crew at work in orbit. The shuttle system is the key to unlocking the next era of technology and the forerunner of space transportation systems of tomorrow: The world's first spaceship, the Enterprise, is here!

Nasa Space Shuttle Transportation System Manual NASA, Rockwell International, 2011-08 The Space Shuttle Transportation System Manual provides a highly detailed overview of the components that made up the Space Shuttle program. Created in 1984 for NASA by prime contractor Rockwell International, this book was intended as a highly readable, easy-to-understand reference for members of the press and corporate clients. The 600+ page text features hundreds of technical diagrams and photographs, an overview of the Shuttle program, and detailed sections on spacecraft structures, spacecraft systems and payloads. Spacecraft structures chapters includes information about the orbiter, propulsion systems, external boosters, external tank and payload deployment. Spacecraft systems chapters include discussions of the thermal protection system, orbital maneuvering system, reaction control system, electrical power and life support systems, communications, avionics, landing gear and more. Additional

chapters provide background concerning the development and testing of the shuttles, and payloads such as Spacelab, the Payload Assist Module and Space Telescope. Despite the tragedies that resulted in the loss of two of the spacecraft, the Space Shuttle program was a highly successful one that facilitated the construction of the International Space Station, deployment and service of the Hubble Space Telescope, and produced many other significant milestones. This book sheds light in particular into the first few years of the spacecraft's spectacular three decade service life (1981-2011) and lays out many goals for the STS, many of which were fulfilled and some which were not. A highly complete, detailed look inside the spacecraft, how it was designed, built and operated, this book remains one of the best Space Shuttle references available, and one no space flight enthusiast should be without.

NASA's First Space Shuttle Astronaut Selection David J. Shayler, Colin Burgess, 2020-07-10 Unofficially they called themselves the TFNG, or the Thirty-Five New Guys. Officially, they were NASA's Group 8 astronauts, selected in January 1978 to train for orbital missions aboard the Space Shuttle. Prior to this time only pilots or scientists trained as pilots had been assigned to fly on America's spacecraft, but with the advent of the innovative winged spacecraft the door was finally opened to non-pilots, including women and minorities. In all, 15 of those selected were categorised as Pilot Astronauts, while the other 20 would train under the new designation of Mission Specialist. Altogether, the Group 8 astronauts would be launched on a total of 103 space missions; some flying only once, while others flew into orbit as many as five times. Sadly, four of their number would perish in the Challenger tragedy in January 1986. In their latest collaborative effort, the authors bring to life the amazing story behind the selection of the first group of Space Shuttle astronauts, examining their varied backgrounds and many accomplishments in a fresh and accessible way through deep research and revealing interviews. Throughout its remarkable 30-year history as the workhorse of NASA's human spaceflight exploration, twice halted through tragedy, the Shuttle fleet performed with magnificence. So too did these 35 men and women, swept up in the dynamic thrust and ongoing development of America's Space Shuttle program. This book on the Group 8 Astronauts, the TFNGs, is an excellent summation of the individuals first selected for the new Space Shuttle Program. It provides insight into what it took to first get the Space Shuttle flying. For any space enthusiast it is a must read. - Robert L. Crippen PLT on STS-1 "As a reader, I had many moments where long, lost memories of the triumph and tragedy of the space shuttle program were brilliantly reawakened at the turn of a page. Loved it! This is a must-have book for every space enthusiast's library." - TFNG Mission Specialist Astronaut Richard 'Mike' Mullane, author of *Riding Rockets: The Outrageous Tales of a Space Shuttle Astronaut* "Many of the anecdotes in the book brought back memories of challenges, opportunities, and a team of men and women who were committed not just to the space program, but to one another...I've gone back to it several times as a reference source." - TFNG Steve Hawley, 5-time Space Shuttle Mission Specialist Astronaut The TFNG book is incredible and amazingly thorough! The detail in the book is awesome! It is my go-to book for any of the details I've forgotten. - TFNG Dr. Rhea Seddon, 3-time Space Shuttle Mission Specialist Astronaut. I can't believe how detailed and complete it is!!! FANTASTIC work!!! - TFNG Robert L. Hoot Gibson, 5-time Space Shuttle Pilot & Commander and former Chief of the NASA Astronaut Office

*Coming Home* Roger D. Launius, Dennis R. Jenkins, 2012 NOTE; NO FURTHER DISCOUNT ON THIS PRINT PRODUCT-- OVERSTOCK SALE -- Significantly reduced list price The technologies for the reentry and recovery from space might change over time, but the challenge remains one of the most important and vexing in the rigorous efforts to bring spacecraft and their crews and cargo home successfully. Returning to Earth after a flight into space is a fundamental

challenge, and contributions from the NASA Aeronautics Research Mission Directorate in aerodynamics, thermal protection, guidance and control, stability, propulsion, and landing systems have proven critical to the success of the human space flight and other space programs. Without this base of fundamental and applied research, the capability to fly into space would not exist. Other related products: NASA Historical Data Book, V. 7: NASA Launch Systems, Space Transportation/Human Spaceflight, and Space Science can be found here: <https://bookstore.gpo.gov/products/sku/033-000-01309-4> Revolutionary Atmosphere: The Story of the Altitude Wind Tunnel and the Space Power Chambers can be found here: <https://bookstore.gpo.gov/products/sku/033-000-01342-6> Spinoff: Innovative Partnerships Program 2009 can be found here: <https://bookstore.gpo.gov/products/sku/033-000-01331-1> Spinoff 2010: NASA Technologies Benefit Society can be found here: <https://bookstore.gpo.gov/products/sku/033-000-01343-4> Spinoff 2015: Technology Transfer Program can be found here: <https://bookstore.gpo.gov/products/sku/033-000-01372-8> Aerospace, Astronomy & Space Exploration resources collection can be found here: <https://bookstore.gpo.gov/catalog/science-technology/aerospace-astronomy...> Other products produced by the U.S. National Aeronautics and Space Administration (NASA) can be found here: <https://bookstore.gpo.gov/agency/550>

#### **Spacelab 2**, 1985

*The Story of the Space Shuttle* David M. Harland, 2004-07-05 In spite of the Challenger and Columbia disasters, the US Space Shuttle, which entered service in 1981, remains the most successful spacecraft ever developed. Conceived and designed as a reusable spacecraft to provide cheap access to low Earth orbit, and to supersede expendable launch vehicles, serving as the National Space Transportation System, it now coexists with a new range of commercial rockets. David Harland's definitive work on the Space Shuttle explains the scientific contribution the Space Shuttle has made to the international space programme, detailing missions to Mir, Hubble and more recently its role in the assembly of the International Space Station. This substantial revision to existing chapters and extension of 'The Space Shuttle', following the loss of Columbia, will include a comprehensive account of the run-up to resumption of operations and conclude with a chapter beyond the Shuttle, looking at possible future concepts for a partly or totally reusable space vehicle which are being considered to replace the Shuttle.

*Space Shuttle Missions Summary (NASA/TM-2011-216142)* Robert D. Legler, Floyd V. Bennett, 2011-09-01 Full color publication. This document has been produced and updated over a 21-year period. It is intended to be a handy reference document, basically one page per flight, and care has been exercised to make it as error-free as possible. This document is basically as flown data and has been compiled from many sources including flight logs, flight rules, flight anomaly logs, mod flight descent summary, post flight analysis of mps propellants, FDRD, FRD, SODB, and the MER shuttle flight data and inflight anomaly list. Orbit distance traveled is taken from the PAO mission statistics.

#### **NASA Facts**, 1962

*Wings in Orbit* Wayne Hale, Helen Woods Lane, United States. National Aeronautics and Space Administration, 2010 Explains how the space shuttle works and describes a shuttle trip from lift-off to touchdown.

*Space Shuttle* Dennis R. Jenkins, 2001 This greatly enlarged third edition adds many previously uncovered early designs, details the latest modifications to the operational vehicles, and provides expanded coverage of the first 100 missions.

**From Runway to Orbit** Kenneth W. Iliff, Curtis Peebles, 2004 NOTE: NO FURTHER DISCOUNT FOR THIS PRINT PRODUCT--

OVERSTOCK SALE -- Significantly reduced list price while supplies last NASA SP 2004-4109. NASA History Series. Presents the memoirs of Dr. Kenneth W. Iliff, the retired Chief Scientist of NASA Dryden Flight Research Center. He worked at NASA from 1962-2002. Related products: Commercial Orbital Transportation Services: A New Era in Spaceflight is available here: <https://bookstore.gpo.gov/products/sku/033-000-01367-1> Reference Guide to the International Space Station is available here: <https://bookstore.gpo.gov/products/sku/033-000-01373-6> Other products produced by the U.S. National Aeronautics and Space Administration (NASA) can be found here: <https://bookstore.gpo.gov/agency/550>

**To Orbit and Back Again** Davide Sivoletta, 2013-08-27 The Space Shuttle has been the dominant machine in the U.S. space program for thirty years and has generated a great deal of interest among space enthusiasts and engineers. This book enables readers to understand its technical systems in greater depth than they have been able to do so before. The author describes the structures and systems of the Space Shuttle, and then follows a typical mission, explaining how the structures and systems were used in the launch, orbital operations and the return to Earth. Details of how anomalous events were dealt with on individual missions are also provided, as are the recollections of those who built and flew the Shuttle. Many photographs and technical drawings illustrate how the Space Shuttle functions, avoiding the use of complicated technical jargon. The book is divided into two sections: Part 1 describes each subsystem in a technical style, supported by diagrams, technical drawings, and photographs to enable a better understanding of the concepts. Part 2 examines different flight phases, from liftoff to landing. Technical material has been obtained from NASA as well as from other forums and specialists. Author Davide Sivoletta is an aerospace engineer with a life-long interest in space and is ideally qualified to interpret technical manuals for a wider audience. This book provides comprehensive coverage of the topic including the evolution of given subsystems, reviewing the different configurations, and focusing on the solutions implemented.

**The Space Shuttle** David M. Harland, 1998-07-14 Presents the Space Shuttle as a utilitarian craft, focusing on its origins, operations, and importance to many scientific missions.

**Astronautics and Aeronautics, 1986-1990** Ihor Gawdiak, Ramón Miró, Sam Stueland, 1997

**Designing a Shuttle** Elisa Jordan, 2018-10-01 In the 1970s, NASA wanted to build a new kind of spacecraft that could be used over and over again. The Space Shuttle Program was born, and NASA engineers and scientists were tasked with designing and creating the first shuttle. Nine years later, the first space shuttle was launched. Learn the history of the Space Shuttle Program and the many issues and problems that the engineers faced. Created in collaboration with the Smithsonian Institution, this Smithsonian Informational Text builds reading skills while engaging students' curiosity about STEAM topics through real-world examples. Packed with factoids and informative sidebars, it features a hands-on STEAM challenge that is perfect for use in a makerspace and teaches students every step of the engineering design process. Make STEAM career connections with career advice from actual Smithsonian employees working in STEAM fields. Discover engineering innovations that solve real-world problems with content that touches on all aspects of STEAM: Science, Technology, Engineering, the Arts, and Math!

**Bringing Columbia Home** Michael D. Leinbach, Jonathan H. Ward, 2018-01-23 Voted the Best Space Book of 2018 by the Space Hipsters The dramatic inside story of the epic search and recovery operation after the Columbia space shuttle disaster. On February 1, 2003, Columbia disintegrated on reentry before the nation's eyes, and all seven astronauts aboard were lost. Author Mike Leinbach, Launch Director of the space shuttle program at NASA's John F. Kennedy Space Center was a key leader in the search and recovery effort as NASA, FEMA, the FBI, the US Forest Service, and dozens more federal, state, and local agencies combed an area of rural east Texas the size of Rhode

Island for every piece of the shuttle and her crew they could find. Assisted by hundreds of volunteers, it would become the largest ground search operation in US history. This comprehensive account is told in four parts: Parallel Confusion Courage, Compassion, and Commitment Picking Up the Pieces A Bittersweet Victory For the first time, here is the definitive inside story of the Columbia disaster and recovery and the inspiring message it ultimately holds. In the aftermath of tragedy, people and communities came together to help bring home the remains of the crew and nearly 40 percent of shuttle, an effort that was instrumental in piecing together what happened so the shuttle program could return to flight and complete the International Space Station. Bringing Columbia Home shares the deeply personal stories that emerged as NASA employees looked for lost colleagues and searchers overcame immense physical, logistical, and emotional challenges and worked together to accomplish the impossible. Featuring a foreword and epilogue by astronauts Robert Crippen and Eileen Collins, and dedicated to the astronauts and recovery search persons who lost their lives, this is an incredible, compelling narrative about the best of humanity in the darkest of times and about how a failure at the pinnacle of human achievement became a story of cooperation and hope.

Embark on a transformative journey with Explore the World with is captivating work, Discover the Magic in **Nasa Spacecraft Space Shuttle** . This enlightening ebook, available for download in a convenient PDF format PDF Size: , invites you to explore a world of boundless knowledge. Unleash your intellectual curiosity and discover the power of words as you dive into this riveting creation. Download now and elevate your reading experience to new heights .

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