



# Story Of The Space Shuttle

**Matthew H. Hersch**

## **Story Of The Space Shuttle:**

**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.

**The History of the American Space Shuttle** Dennis R. Jenkins, 2019-11-28 Detailed history of the American Space Shuttle Program from award winning NASA insider. Each mission is reviewed from its early inception to delivering the remaining vehicles to their final display sites. Covers the history of reusable winged spacecraft from the 1920s throughout the final mission of the American space shuttle.

**Into the Black** Rowland White, 2016-03-10 On 12th April 1981 a revolutionary new spacecraft blasted off from Florida on her maiden flight. NASA's Space Shuttle Columbia was the most advanced flying machine ever built, the high watermark of post war aviation development. A direct descendant of the record breaking X planes the likes of which Chuck Yeager had tested in the skies over the Mojave Desert, Columbia was a winged rocket plane the size of an airliner capable of flying to space and back before being made ready to fly again. She was the world's first real spaceship. On board were men with the Right Stuff. The Shuttle's Commander moonwalker John Young was already a veteran of five spaceflights. Alongside him Pilot Bob Crippen was making his first but Crip taken in by the space agency after the cancellation of a top secret military space station programme in 1969 had worked on the Shuttle's development for a decade. Never before had a crew been so well prepared for their mission. Yet less than an hour after Young and Crippen's spectacular departure from the Cape it was clear that all was not well. Tiles designed to protect Columbia from the blowtorch burn of re entry were missing from the heatshield. If the damage to their ship was too great the astronauts would be unable to return safely to earth. But neither they nor mission control possessed any way of knowing. Instead NASA turned to the National Reconnaissance Office a spy agency hidden deep inside the Pentagon whose very existence was classified. To help the NRO would attempt something that had never been done before. Success would require skill, pinpoint timing and luck. Drawing on brand new interviews with astronauts and engineers, archive material and newly declassified documents, Rowland White, bestselling author of *Vulcan 607* has pieced together the dramatic, untold story of the mission for the first time. *Into the Black* is a thrilling race against time, a gripping high stakes cold war story and a celebration of a

beyond the state of the art machine that hailed as one of the seven new wonders of the world rekindled our passion for spaceflight With a foreword by Astronaut Richard Truly Beautifully researched and written Into the Black tells the true complete story of the Space Shuttle better than it's ever been told before Colonel Chris Hadfield former Astronaut and Space Station Commander Brilliantly revealed Into the Black is the finely tuned true story of the first flight of the Space Shuttle Columbia Rowland White has magnificently laid bare the unknown dangers and unseen hazards of that first mission Once read not forgotten Clive Cussler *Columbia and Beyond* Franklyn Mansfield Branley,1979 Discusses the space vehicle Columbia the space laboratory Spacelab and other proposed space projects *History of the Space Shuttle, Volume Two* T. A. Heppenheimer,2014-09-30 Basing his work on virtually untapped NASA archives T A Heppenheimer has produced the second volume of his definitive history of the space shuttle Volume Two traces the development of the shuttle through a decade of engineering setbacks and breakthroughs program management challenges and political strategizing culminating in the first launch in April 1981 The focus is on the engineering challenges propulsion thermal protection electronics onboard systems and the author covers in depth the alternative vehicles developed by the U S Air Force and European countries The first launch entailed a monumental amount of planning and preparation that Heppenheimer explains in detail

**Space Shuttle 1981-2011** Air & Space Magazine,2014-07-15 Space Shuttle 1981 2011 is a lavishly illustrated special edition celebrating the space shuttle era In thirty years of operation space shuttles were used in 135 different missions this volume presents the adventure stories of many of these missions in the astronauts own words Additional contributions by space exploration writers cover the history of the program technological challenges and triumphs scientific achievements and the devastating Challenger and Columbia tragedies Complete with more than 40 essays and 100 full color photographs Space Shuttle 1981 2011 is a captivating overview of this critical part of space history Although the space shuttle era has ended its spirit that of limitless curiosity and a desire for perfection continues to inspire

**The Space Shuttle** Piers Bizony,2015-04 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

**To Space and Back** Susan Dudley Gold,1992 Examines the history uses and accomplishments of the space shuttle program *The Space Shuttle* Philip S. Harrington,2003-04 **Space Shuttle Story** Andrew Wilson,Outlet,Rh Value Publishing,1987-09 **Space shuttle wind**

**tunnel testing program summary** A. M. Whitnah,1984

**To Orbit and Back Again** Davide Sivolella,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 Sivolella 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

*Space Shuttle* Dennis R. Jenkins,2004

**Dark Star** Matthew H. Hersch,2023-12-26

A captivating history of NASA s Space Transportation System the space shuttle chronicling the inevitable failures of a doomed design In Dark Star Matthew Hersch challenges the existing narrative of the most significant human space program of the last 50 years NASA s space shuttle He begins with the origins of the space shuttle a century long effort to develop a low cost reusable rocket powered airplane to militarize and commercialize space travel which Hersch explains was built the wrong way at the wrong time and for all the wrong reasons Describing the unique circumstances that led to the space shuttle s creation by President Richard Nixon s administration in 1972 and its subsequent flights from 1981 through 2011 Hersch illustrates how the space shuttle was doomed from the start While most historians have accepted the view that the space shuttle s fatal accidents including the 1986 Challenger explosion resulted from deficiencies in NASA s management culture that lulled engineers into a false confidence in the craft Dark Star reveals the widespread understanding that the shuttle was predestined for failure as a technology demonstrator The vehicle was intended only to give the United States the appearance of a viable human spaceflight program until funds became available to eliminate its obvious flaws Hersch s work seeks to answer the perilous questions of technological choice that confront every generation and it is a critical read for anyone interested in how we can create a better world through the things we build

**The Story of the Space Shuttle** Tim

Furniss,1984

*The Space Shuttle, Its Story and how to Make a Flying Paper Model* Frank Ross,1979

An introduction to the space shuttle its history the construction of its major systems a typical mission and what it means in terms of future space travel Includes instructions for making a simple flying paper model of the spacecraft

**Bold They Rise**

David Hitt, Heather R. Smith, 2014-06-01 After the Apollo program put twelve men on the moon and safely brought them home anything seemed possible In this spirit the team at NASA set about developing the Space Shuttle arguably the most complex piece of machinery ever created The world's first reusable spacecraft it launched like a rocket landed like a glider and carried out complicated missions in between Bold They Rise tells the story of the Space Shuttle through the personal experiences of the astronauts engineers and scientists who made it happen in space and on the ground from the days of research and design through the heroic accomplishments of the program to the tragic last minutes of the Challenger disaster In the participants own voices we learn what so few are privy to what it was like to create a new form of spacecraft to risk one's life testing that craft to float freely in the vacuum of space as a one man satellite to witness a friend's death A guided tour of the shuttle in historical scientific and personal terms this book provides a fascinating richly informed and deeply personal view of a feat without parallel in the human story Browse more spaceflight books at [upinspace.org](http://upinspace.org) [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

### **[The Unfortunate Launch of the Space Shuttle Challenger - US History Books for Kids | Children's American History](#)**

Baby Professor, 2017-12 The story of the Space Shuttle Challenger was a sad one The failed launch caused the demise of its astronauts Today the unfortunate launch of the Space Shuttle Challenger is used to better space flight and to ensure that the same accident does not happen again Learn about what happened and how such an unfortunate event can be prevented

Secure a copy today [\*\*The Space Shuttle\*\*](#) Roland Miller, 2022-10-11 The Space Shuttle tells the story of NASA's amazing Space Shuttle program and its 140 space flights 135 missions plus five Approach and Landing Tests in a uniquely designed and covetable way The Space Shuttle program's first free flight test was taken on August 12 1977 Its first official mission was launched on April 12 1981 Its final mission and flight was taken on July 8 2011 The program's six orbiter vehicles are Enterprise Columbia Challenger Discovery Atlantis and Endeavour Each mission has its own fascinating story and The Space Shuttle retells these stories in chronological order through incredible photos taken by NASA photojournalists fine art photographers and the astronauts themselves Each image is accompanied by a short text that includes quick facts such as crew members launch date and landing date as well as a short overview of highlights and purpose For example STS 78's mission was to study circadian rhythms in space STS 41G's mission was to take photographs in flight seen in the IMAX movie The Dream Is Alive and famously the first untethered space walk taken by astronaut Bruce McCandless on STS 41B using a self propelled backpack unit called a Man Maneuvering Unit MMU allowed astronauts to capture satellites for retrieval and repair and for the planned construction of what became the International Space Station ISS Prior to this mission astronauts were attached to the shuttle with safety lines The photo of McCandless floating above Earth's surface is one of the most celebrated and famous space photographs ever These are just a few of the 140 stories Miller tells in this beautiful volume

## Embracing the Melody of Phrase: An Psychological Symphony within **Story Of The Space Shuttle**

In some sort of consumed by screens and the ceaseless chatter of fast communication, the melodic beauty and psychological symphony created by the prepared word frequently diminish into the back ground, eclipsed by the relentless noise and distractions that permeate our lives. Nevertheless, located within the pages of **Story Of The Space Shuttle** an enchanting literary value full of fresh emotions, lies an immersive symphony waiting to be embraced. Constructed by a wonderful musician of language, that captivating masterpiece conducts viewers on a mental journey, skillfully unraveling the hidden tunes and profound impact resonating within each carefully constructed phrase. Within the depths of this touching analysis, we will discover the book's key harmonies, analyze their enthralling writing model, and surrender ourselves to the profound resonance that echoes in the depths of readers' souls.

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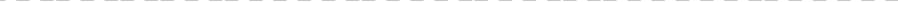
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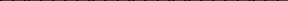
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