



# Space Shuttle: Developing an Icon 1972-2013

*Dennis Jenkins*

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During 30 years and 135 missions, the U.S. space shuttle carried more crewmembers to orbit than all other launch systems, from all other countries combined, and carried more than 4.5 million pounds of payload to orbit. It was a staggering record of success. Unfortunately, it was accompanied by a tragic record of failure, with two accidents claiming the lives of 14 astronauts as well as other incidents claiming several ground personnel. But, as Richard Truly, an astronaut and NASA administrator, once said, "Flying in space is a bold business. We cannot print enough money to make it totally risk-free." This assertion was not meant as an excuse, simply a statement of fact regarding the physics of space travel and the dangers of chemical rockets.

Because it flew for 30 years, most people alive today do not remember a time when the space shuttle was not in the news. The public was enthralled, the politicians somewhat less, and the armchair critics even less so. The space shuttle was meant as a stepping-stone to broader exploration. But the funding and political will never materialized, leaving the vehicle with little meaningful work for most of its flight campaign. Nevertheless, the space shuttle launched a variety of commercial and military satellites, planetary probes to Venus and Jupiter, and three of the four NASA Great Observatories, including the pièce de résistance, the Hubble Space Telescope. Only near the end was it able to demonstrate its intended purpose, building a space station. Even that, when finished, was only a shell of what had been envisioned when the space shuttle was approved. Unfortunately, having found its stride as the primary support vehicle for the International Space Station, the White House canceled the program, leaving the United States without the ability to launch people to orbit.

All of this has left an uncertain legacy for one of the most visible engineering achievements of the 20th Century. This book is not meant to establish that legacy, but to thoroughly document the development, technology, and, to a lesser extent, the flight campaign. We will leave it to future historians to determine the ultimate worthiness of the program. What we can say for certain, though, is that it was one hell of a ride.

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