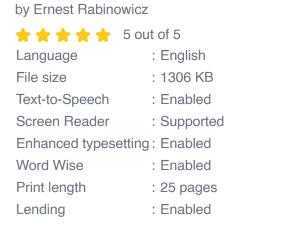
Escaping Earth's Gravity: The Space Launch System that Will Take Us to the Moon and Beyond

The Space Launch System (SLS) is a powerful new rocket that will take humans back to the Moon and eventually to Mars. It is the most powerful rocket ever built, and it will be used to launch the Orion spacecraft, which will carry astronauts to the Moon and back.

Escaping Earth's Gravity: Space Launch System







The SLS is a key part of NASA's Artemis program, which aims to return humans to the Moon by 2024. The first Artemis mission, Artemis 1, will be an uncrewed flight around the Moon. Artemis 2 will be the first crewed flight around the Moon, and Artemis 3 will be the first crewed landing on the Moon since 1972. The SLS is a complex and powerful machine. It is made up of four main parts: the core stage, the solid rocket boosters, the interim cryogenic propulsion stage, and the Orion spacecraft.

The **core stage** is the main part of the SLS. It is powered by four RS-25 engines, which are the same engines that were used on the Space Shuttle. The core stage provides the main thrust for the SLS during launch.

The **solid rocket boosters** are two large rockets that are attached to the sides of the core stage. They provide additional thrust during launch and help the SLS to lift off the ground. The solid rocket boosters are jettisoned after they have burned out.

The **interim cryogenic propulsion stage** is a stage that is located between the core stage and the Orion spacecraft. It is powered by four RL-10 engines, which burn liquid hydrogen and liquid oxygen. The interim cryogenic propulsion stage provides the SLS with the power it needs to reach orbit.

The **Orion spacecraft** is the spacecraft that will carry astronauts to the Moon. It is made up of a crew module, a service module, and a launch abort system. The crew module is where the astronauts will live and work during their mission. The service module provides the Orion spacecraft with power, propulsion, and life support. The launch abort system is a system that will pull the Orion spacecraft away from the SLS in the event of an emergency.

The SLS is a powerful and complex machine, but it is also a necessary one. It is the only rocket that is powerful enough to take humans back to the Moon and eventually to Mars. The SLS is a key part of NASA's Artemis program, and it will play a vital role in our future exploration of space.

The Benefits of the Space Launch System

The SLS has a number of benefits over other rockets. These benefits include:

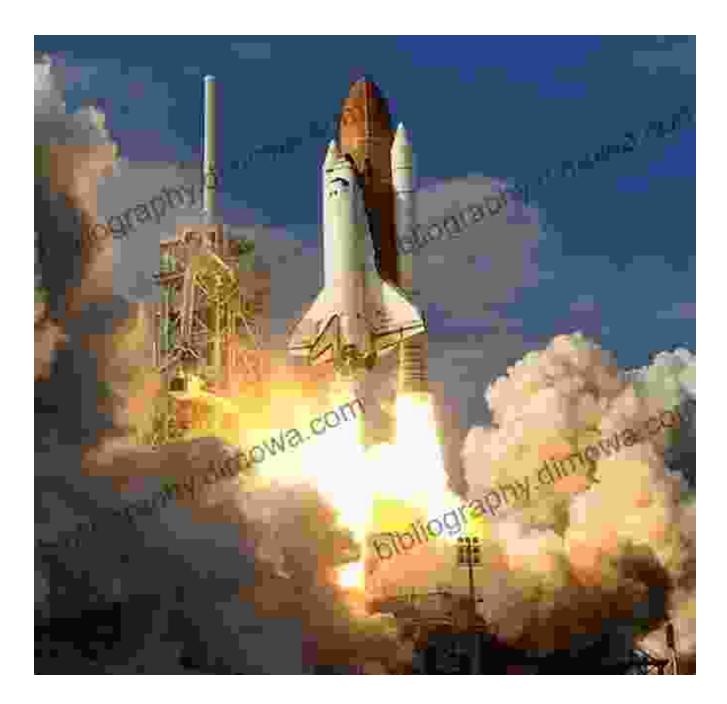
- Power: The SLS is the most powerful rocket ever built. It is capable of lifting more than 130 metric tons (143 tons) into low Earth orbit (LEO). This makes it the ideal rocket for launching heavy payloads, such as the Orion spacecraft and the lunar lander.
- Reliability: The SLS is a very reliable rocket. It has been designed with multiple redundancies to ensure that it can complete its mission even if there is a problem with one of its systems.
- Versatility: The SLS is a versatile rocket. It can be used to launch a variety of payloads, including satellites, space probes, and human spacecraft. This makes it a valuable asset for NASA and other space agencies.

The Future of the Space Launch System

The SLS is a key part of NASA's Artemis program, and it will play a vital role in our future exploration of space. The SLS will be used to launch the Orion spacecraft, which will carry astronauts to the Moon and back. The SLS will also be used to launch the lunar lander, which will allow astronauts to land on the Moon and explore its surface.

The SLS is a powerful and versatile rocket, and it is the only rocket that is capable of taking humans back to the Moon and eventually to Mars. The

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Source: NASA

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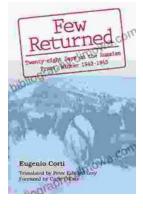
by Ernest Rabinowicz

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