Jupiter: The Largest Planet in Our Solar System

Jupiter is the largest planet in our solar system, and it is a gas giant. It is made up mostly of hydrogen and helium, and it has a thick atmosphere. Jupiter has a very strong magnetic field, and it is surrounded by a large number of moons.



Planet Jupiter by Jane Kurtz

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Screen Reader : Supported
Enhanced typesetting: Enabled
Word Wise : Enabled
Print length : 293 pages



Jupiter's Size and Mass

Jupiter is the largest planet in our solar system, both in terms of diameter and mass. It has a diameter of 142,984 kilometers (88,846 miles), which is about 11 times the diameter of Earth. Jupiter's mass is 1.8986×10^2 7 kilograms, which is about 318 times the mass of Earth.

Jupiter's Atmosphere

Jupiter's atmosphere is very thick, and it is composed mostly of hydrogen and helium. The atmosphere is also very cloudy, and it has a number of

different layers. The outermost layer of the atmosphere is the troposphere, which is where most of the clouds are located. The troposphere is followed by the stratosphere, which is where the temperature starts to increase with altitude. The stratosphere is followed by the thermosphere, which is where the temperature reaches its highest point.

Jupiter's Magnetic Field

Jupiter has a very strong magnetic field, which is generated by the planet's rotation. The magnetic field is so strong that it can be detected from Earth. The magnetic field protects Jupiter from the solar wind, which is a stream of charged particles that is emitted from the Sun. The magnetic field also creates a region of space around Jupiter called the magnetosphere. The magnetosphere is a region of charged particles that is trapped by the magnetic field.

Jupiter's Moons

Jupiter is surrounded by a large number of moons. The four largest moons are called the Galilean moons, and they were discovered by Galileo Galilei in the 17th century. The Galilean moons are Io, Europa, Ganymede, and Callisto. Io is the most volcanically active body in the solar system, and Europa is thought to have a subsurface ocean that could potentially harbor life. Ganymede is the largest moon in the solar system, and it is even larger than Mercury. Callisto is the oldest and most cratered moon in the solar system.

Jupiter's Rings

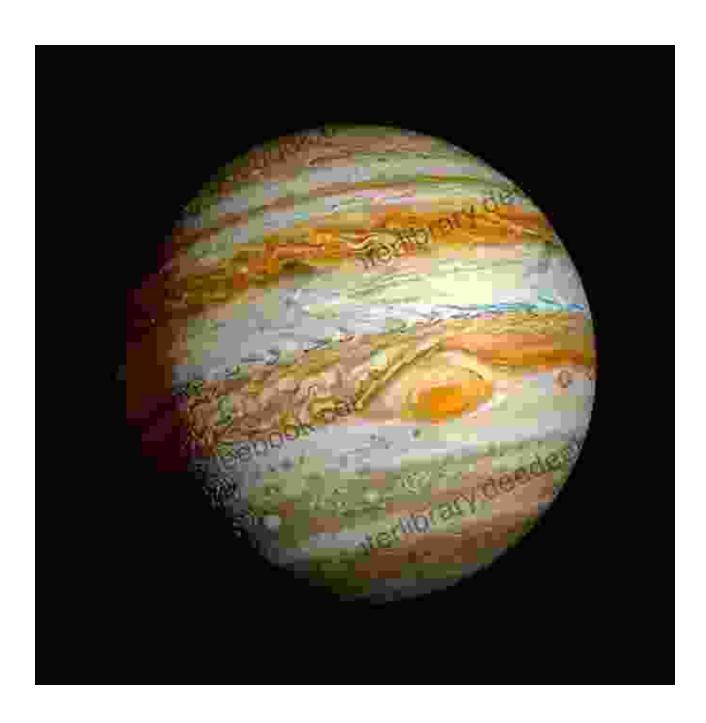
Jupiter has a faint ring system that was discovered in 1979. The ring system is made up of dust and small particles, and it is thought to be the

remnants of a moon that was destroyed by Jupiter's gravity.

Exploration of Jupiter

Jupiter has been visited by a number of spacecraft, including Pioneer 10, Pioneer 11, Voyager 1, Voyager 2, Galileo, Cassini, and New Horizons. The most recent spacecraft to visit Jupiter was Juno, which arrived in orbit around the planet in 2016. Juno is studying Jupiter's atmosphere, magnetic field, and interior.

Jupiter is a fascinating planet that is full of mystery. It is the largest planet in our solar system, and it has a thick atmosphere, a strong magnetic field, and a large number of moons. Jupiter is a popular target for space exploration, and it is likely that we will continue to learn more about this amazing planet in the years to come.





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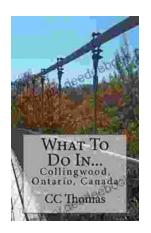
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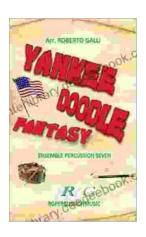
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