Solar360 Mobile Energy

How did the solar system start

Overview

Ideas concerning the origin and fate of the world date from the earliest known writings; however, for almost all of that time, there was no attempt to link such theories to the existence of a "Solar System", simply because it was not generally thought that the Solar System, in the sense we now understand it, existed. The first step toward a theory of Solar System formation and evolutio.

How did the Solar System start?

The solar system as we know it began life as a vast, swirling cloud of gas and dust, twisting through the universe without direction or form. About 4.6 billion years ago, this gigantic cloud was transformed into our Sun. The processes that followed gave rise to the solar system, complete with eight planets, 181 moons, and countless asteroids.

How did planets form in the Solar System?

Most of the collapsing mass collected in the center, forming the Sun, while the rest flattened into a protoplanetary disk out of which the planets, moons, asteroids, and other small Solar System bodies formed.

Did the Solar System ever form a planet?

And like that, the solar system as we know it today was formed. There are still leftover remains of the early days though. Asteroids in the asteroid belt are the bits and pieces of the early solar system that could never quite form a planet. Way off in the outer reaches of the solar system are comets.

When was Solar System invented?

This concept had been developed for millennia (Aristarchus of Samos had suggested it as early as 250 BC), but was not widely accepted until the end of the 17th century. The first recorded use of the term "Solar System" dates from 1704.

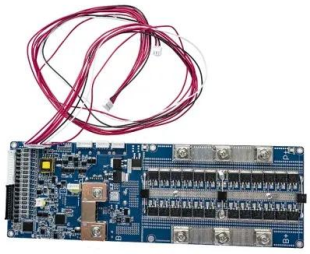
How long did Solar System formation last?

This model for solar system formation was widely accepted for about 100 years. During this period, the apparent regularity of motions in the solar system was contradicted by the discovery of asteroids with highly eccentric orbits and moons with retrograde orbits.

How did condensation form the Solar System?

The central condensation eventually formed the Sun, while small condensations in the disk formed the planets and their satellites. The energy from the young Sun blew away the remaining gas and dust, leaving the Solar System as we see it today. Explore space from the comfort of home.

How did the solar system start

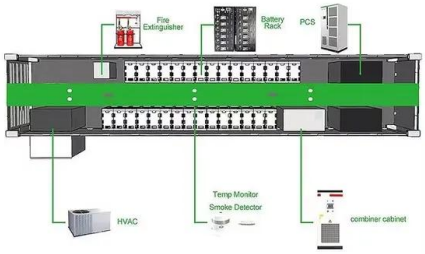


[Formation of Our Solar System , AMNH]

The Sun and the planets formed together, 4.6 billion years ago, from a cloud of gas and dust called the solar nebula. A shock wave from a nearby supernova explosion probably initiated the collapse of the solar nebula.

[Origin of the Universe and Our Solar System - ...]

By the end of this chapter, students should be able to: Explain the formation of the universe and how we observe it. Understand the origin of our Solar System. Describe how the objects in our Solar System are identified, explored, and ...



[Formation and evolution of the Solar System]

OverviewHistoryFormationSubsequent evolutionMoonsFutureGalactic interactionChronology

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[Formation of Our Solar System , AMNH]

Comets condensed in the outer solar system, and many of them were thrown out to great distances by close gravitational encounters with the giant planets. After the Sun ignited, a strong solar wind cleared the system of gas and dust.

[The Bible and Modern Astronomy, Part 1 , Answers in ...]

Solar System Formation Secular models of solar system formation have also come up short. The earth, moon, sun, and all the planets have supposedly formed from a collapsing nebula--a cloud of hydrogen and ...

[In what order did the planets in our solar system form?]

An artistic rendition of our solar system, including the Sun and eight planets. vjanez/iStock via Getty Images Christopher Palma, Penn State and Lucas Brefka, Penn State Curious Kids is a series for children of all ages. If ...

[How the Earth and moon formed, explained]

How did the Earth and moon form? The Earth, like all the other planets in the solar system, started out its life as a disc of dust and gas orbiting the young sun. The dust particles were brought together by the forces of drag to form clumps ...

Collapse of the Solar Nebula

Artist's conception of the solar nebula.The initial stage in the history of the Solar System is the collapse and rotation of a large, diffuse cloud. After the cloud collapses to a stable configuration with a young Sun and a surrounding disk of ...

[How Was Our Solar System Formed? (article) , Khan Academy]

Clearing the Disk Solar Wind: As the Sun ignited and began nuclear fusion, its solar wind pushed away the remaining gas and dust, clearing the protoplanetary disk and leaving behind the solar ...

How did the Solar System form?

To start, this early Solar System was much like it is today, but there were several key differences. "Today, we have giant planets from Jupiter at about 5 AU from the Sun to Neptune at about 30 AU," says William Bottke from the Southwest ...

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