Discover Jaw-Dropping Comets 101 Facts Trivia Anura Guruge - You Won't Believe Fact #17!

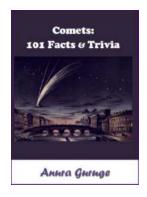
Comets have fascinated humanity since ancient times. These celestial bodies are often referred to as "dirty snowballs" due to their composition of ice, dust, and rocky material. In this article, we will delve into 101 facts and trivia about comets that will leave you in awe. Brace yourself for a cosmic journey accompanied by Anura Guruge's expertise.



1. What is a Comet?

A comet is a small celestial body that orbits the sun and develops a glowing atmosphere and a tail as it gets closer to our star. This phenomenon occurs due to the heat emanating from the sun, causing the comet's icy nucleus to vaporize,

releasing gas and dust particles that create the stunning display we associate with comets.



Comets: 101 Facts & Trivia by Anura Guruge (Kindle Edition)

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2. Fascinating Origins

Comets are believed to originate from two main sources: the Kuiper Belt and the Oort Cloud. The Kuiper Belt is a region beyond Neptune's orbit, while the Oort Cloud is located much farther from our sun. Comets are remnants from the early stages of the solar system, providing valuable insights into our cosmic history.

3. Celestial Wanderers

Comets roam the solar system in elliptical orbits. Some comets take thousands of years to complete a single orbit around the sun, while others have much shorter periods. Halley's comet, for example, has an orbital period of about 76 years and is arguably the most well-known comet in human history.

4. Spectacular Tails

The signature feature of comets is their magnificent tails. These tails can stretch millions of kilometers into space. It's important to note that the tail of a comet

always points away from the sun due to solar wind and radiation pressure.

5. Different Types of Tails

Comets can have two types of tails: a dust tail and an ion tail. The dust tail is made up of dust and rocky particles released from the comet's nucleus, while the ion tail is composed of ionized gas. The distinction between the two creates stunning visual displays during a comet's journey.

6. Famous Comets Throughout History

Over the centuries, comets have left an enduring impact on human culture and mythology. Halley's comet, as mentioned earlier, is one of the most famous comets known to humankind. Another notable comet is Comet Hale-Bopp, which made a remarkable appearance in 1997 and was visible for a longer duration, captivating sky enthusiasts worldwide.

7. Impact on Society

Comets have often been viewed as harbingers of good or bad fortune throughout history. Their magnificent appearances have been associated with significant events, including the birth or death of important figures, the outbreak of wars, and even natural disasters.

8. The Birth of Meteor Showers

Did you know that meteor showers are actually created by comets? As a comet moves along its orbit, it leaves debris behind. When Earth passes through these debris trails, we witness meteor showers such as the Perseids and Leonids. The particles burn up upon entering our atmosphere, creating a mesmerizing display of shooting stars.

9. Stardust in Action

Comets contain stardust, making them invaluable sources of information about our universe's origins. The material present in comets is believed to be remnants from the formation of our solar system.

10. The Impact of Comets on Earth

Throughout history, comets have impacted our planet, leaving their mark in various ways. For instance, some scientists argue that comets may have been a significant source of water on Earth. There are also theories suggesting that a comet impact caused the extinction of the dinosaurs approximately 66 million years ago.

11. Famous Comet Encounters

In recent history, several spacecraft have embarked on missions to explore comets up close and personal. The European Space Agency's Rosetta mission, for example, provided groundbreaking data about Comet 67P/Churyumov-Gerasimenko, even landing a probe on its surface in a historic space achievement.

12. Comets vs. Asteroids

Comets and asteroids are often categorized under the same umbrella term of "small bodies" in space. However, there are significant differences between them. Comets mostly consist of ice and dust, while asteroids are composed of rocky material. Additionally, comets often have highly elongated elliptical orbits, while asteroids have more circular orbits.

13. The Largest Comet

The largest known comet in our solar system is Comet Hale-Bopp, with a nucleus estimated to be approximately 40 kilometers in diameter. This magnificently sized comet was visible from Earth for a span of about 18 months.

14. Comets and the Zodiacal Light

Have you ever seen a pale, cone-shaped light extending upwards from the horizon after sunset or before sunrise? This phenomenon is called the Zodiacal Light, and it is caused by sunlight scattering off dust particles in the plane of the inner solar system, including those shed by comets.

15. Timeline of Cometary Discoveries

The study of comets has come a long way over the centuries. The timeline of cometary discoveries showcases the significant advancements made in observing, understanding, and exploring these mesmerizing celestial bodies. From the first recorded comet sighting by Chinese astronomers in 239 BCE to modern-day space missions, our knowledge has expanded exponentially.

Comets continue to capture our imaginations and serve as reminders of the vastness and beauty of our universe. These cosmic wanderers provide a wealth of information about our past and play a vital role in understanding the origins of the solar system. Anura Guruge's expertise and passion for these celestial marvels ensure that the journey through comets' intriguing facts and trivia is truly captivating.

So, be prepared to gaze at the night sky, awe-inspired by the wonders of comets.



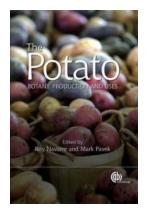
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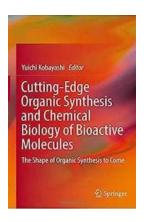


An educational guide to comets and cometary lore (from the author of two books on Comet ISON) in the form of 101 easy-to-digest 'longish tweets' – i.e., 'bang, bang, bang', cut-to-the-chase, tightly condensed 101 'nuggets of knowledge'. Today's pell-mell lifestyles prevent many from having the time to learn about new things, in this case comets, from traditional books. So, this is a book that can be read, casually, at will, non-sequentially, for a few minutes at a time. Nonetheless, it will provide a fairly comprehensive tutorial on comets; one detailed enough to make the reader into an instant expert capable of impressing friends and family with beguiling gems along the lines of: "did you know that there was a comet that was bigger than the Sun", "I just read of a comet that had six tails", "never realized that NASA has actually collected particles for analysis from a comet in space", "did you know that Halley's comet was not discovered by Halley" or "isn't it amazing that the Jewish Talmud written nearly 2,000 years ago appears to have a reference to Halley's comet". The 101 'nuggets of knowledge' are augmented, in each case, with additional data to provided added value. The 101 nuggets are divided into 7 categories: WOW factor, personalities, the characteristics, by the numbers, the greats, exploration and miscellanea. Includes an appendix on comets by Philip Corneille, Fellow of the Royal Astronomical Society (FRAS). The book is likely to contain some 'typos' when it comes to spelling and grammar. As many 'typos' will be fixed in each Kindle revision. If the 'typos' bother you please return the book and get a full refund – rather than complaining about it. Edition 2.2. August 21, 2013.



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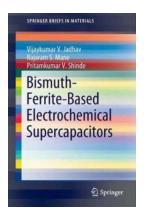
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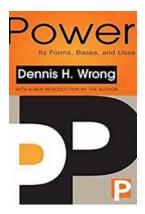
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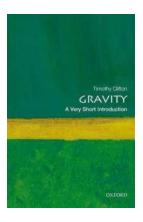
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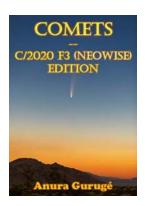
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