



goddess. They believed that the cosmos was a reflection of the gods and that the position of the stars influenced human fate. Similarly, the Egyptians associated the sky with their deities and believed that constellations had a direct impact on agriculture and the flooding of the Nile.



## How We Came to Know the Cosmos: Space & Time by Baby Professor (Kindle Edition)

★★★★☆ 4.1 out of 5

Language : English  
File size : 15237 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting : Enabled  
Word Wise : Enabled  
Print length : 568 pages  
Lending : Enabled



Although these beliefs may seem primitive to us today, they laid the foundation for our curiosity and exploration of the universe. Ancient astronomers, known as astrologers, meticulously studied the stars in an attempt to decipher the messages from the gods. Their observations and measurements paved the way for future discoveries.

### The Birth of Scientific Examination

Fast forward to the Renaissance era, a pivotal period of scientific revolution. In the 16th and 17th centuries, scholars such as Nicolaus Copernicus and Galileo Galilei challenged conventional wisdom by proposing a heliocentric model of the universe. This groundbreaking revelation suggested that the Earth revolved around the Sun, rather than being the center of the cosmos.

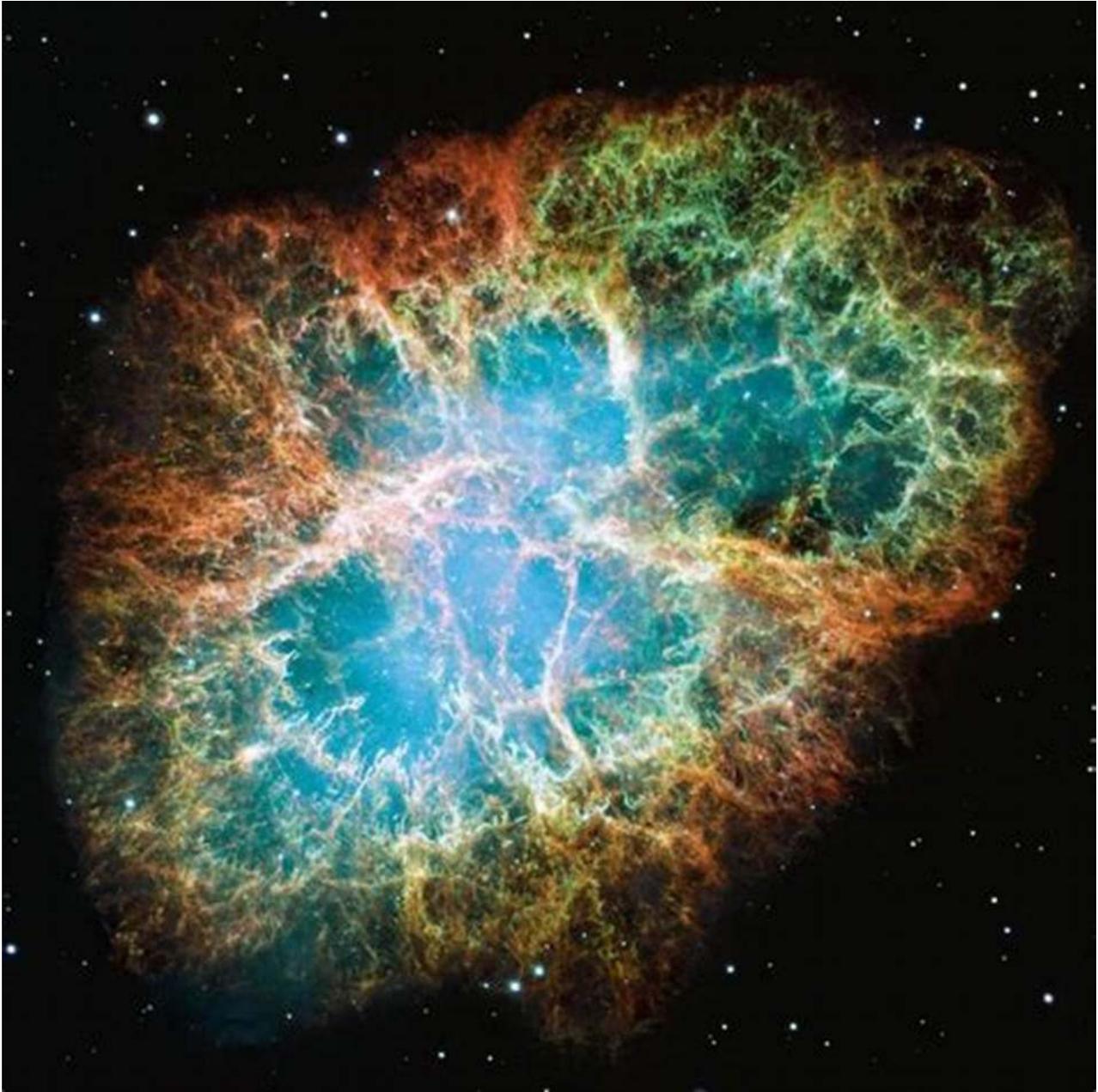


Galileo, in particular, made significant contributions to our understanding of the cosmos. Armed with a telescope, he observed the moon, Jupiter's moons, and countless stars, providing evidence to support the heliocentric model. However, his discoveries were met with resistance and deemed heretical by the Catholic Church, which clung to the geocentric model based on ancient beliefs.

Despite this opposition, the scientific method had taken hold, and scientists continued to build upon the knowledge of their predecessors. In the centuries that followed, great minds like Isaac Newton formulated the laws of motion and gravitation, further solidifying our understanding of the cosmos.

## **Modern Discoveries and Technological Advancements**

In the 20th century, advancements in technology revolutionized our understanding of the cosmos. The invention of the telescope, initially used by amateur astronomers, allowed us to observe distant galaxies and nebulae in unprecedented detail.



One of the most significant breakthroughs in modern astronomy was the launch of the Hubble Space Telescope in 1990. Orbiting above Earth's atmosphere, Hubble provided crystal-clear images of celestial objects, undistorted by atmospheric interference. This telescope has played a crucial role in discoveries ranging from the age of the universe to the existence of exoplanets.

Furthermore, the development of other advanced technologies, such as radio telescopes and space probes, have expanded our knowledge of the cosmos even further. These instruments have allowed us to explore distant corners of the universe, gather data on cosmic background radiation, and detect gravitational waves.

## **Looking Towards the Future of Cosmic Knowledge**

As our understanding of the cosmos continues to deepen, so do the questions we seek to answer. Scientists today are working diligently to unravel the mysteries of dark matter, dark energy, and the origins of the universe itself.



Technological advancements are driving new discoveries, and projects like the James Webb Space Telescope, set to launch in the near future, promise to unveil even deeper insights into the universe. With improved capabilities and a wider range of observations, we can only imagine the knowledge that awaits us.

## In

From ancient myths to scientific breakthroughs, our understanding of the cosmos has come a long way. The transition from beliefs rooted in mythology to evidence-based knowledge required revolutionizing conventional wisdom and relying on empirical data.

Through centuries of questioning, exploring, and pushing the boundaries of human knowledge, we have reached a point where we can measure, observe, and ponder the vastness of the universe. While there is still much to learn, one thing is certain: the fascinating journey of how we came to know the cosmos has only just begun.



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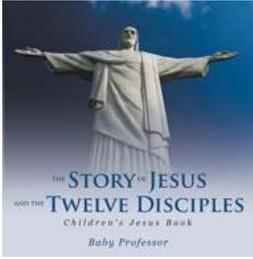


“I wouldn’t hesitate to use this as a course textbook. Concise delivery, light handling of big issues, and up-to-date.” – Professor Silas Laycock, University of Massachusetts.

“Can’t put it down. A great piece of writing! Klus identifies the key ideas in a vast array of scientific topics and explains each of them with succinct yet engaging prose. These books are comprehensive in scope, at least touching on almost every topic known to physical science and often digging much deeper. The discussion is simultaneously accessible enough for young science enthusiasts seeing the subjects for the first time and sophisticated enough for professionals to pick up new insights at the periphery of their expertise.” - Dr Sean P Robinson, Massachusetts Institute of Technology.

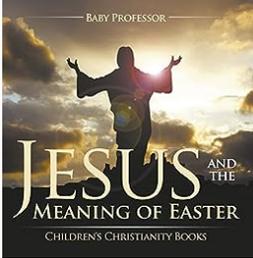
We live in a universe that is both infinite and expanding, that contains dimensions we can never see, and places we can never go, even if we travel forever. There could be millions of other planets in our galaxy that contain life, and we may live within a multiverse that contains infinite copies of ourselves.

Modern science has become so astonishing that many people find it difficult to believe. The How We Came to Know the Cosmos series shows how we came to such extraordinary s, starting from first principles.



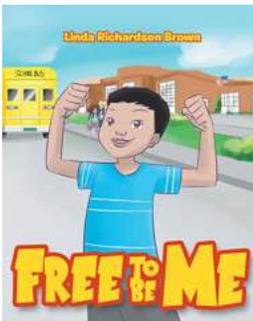
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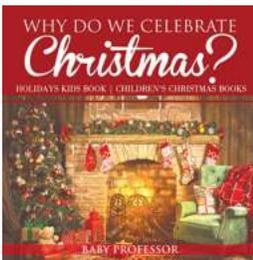
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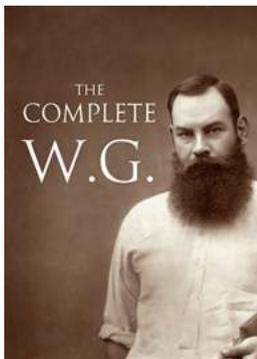
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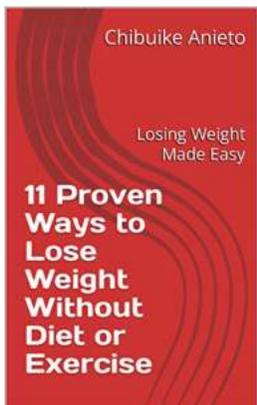
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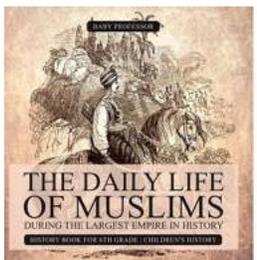
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